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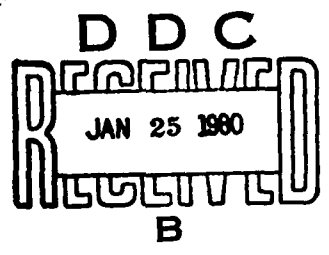
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TRANSPORTATION ENERGY CONSERVATION DATA BOOK

A Selected, Annotated Bibliography, Edition 3

By
A. R. Ehrenshaft
B. Y. Barber
P. J. Carroll
L. K. Plemons
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R. S. Weaver

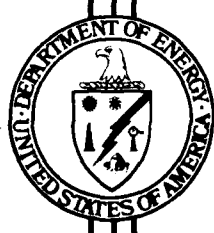


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TRANSPORTATION ENERGY CONSERVATION DATA BOOK:
A SELECTED BIBLIOGRAPHY, EDITION 3

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15

CONTENTS

Foreword. 1v

Acknowledgments vi

Highlights. 1

Introduction. 1

Availability of Reports 3

Reviews of Selected Studies 5

Comparison of U.S. Environmental Protection Agency Fuel
Economy Ratings with On-the-Road Experience 7

The Congressional Budget Office's Report on Energy Used by
Urban Transportation Modes. 13

The Energy Information Administration's 1977 Annual Report
to Congress 26

The National Cooperative Highway Research Program's Report
on Energy Intensity of Transportation Modes 29

Oak Ridge National Laboratory's Reports on Gasoline Demand. 34

SRI's Report on Diesel Cars in the United States. 39

SRI's Reports on Railroad Passenger and Freight Transportation. 41

TECNET Transportation Energy Use Model. 45

TRW's Study of Increased Diesel Car Production. 48

The Wharton EFA Automobile Demand Model 51

Reports Sponsored by Division of Transportation Energy
Conservation, Department of Energy. 55

Bibliography. 69

Author Index. 171

Corporate Author Index. 183

Sponsor Index 193

Keyword Index 199

Report Number Index 213

Permuted Title Index. 221

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FOREWORD

In January 1976, the Transportation Energy Conservation Division (TEC) of the Department of Energy (DOE) contracted with the Oak Ridge National Laboratory (ORNL) to develop a data base which would be used by the TEC staff in evaluation of current and proposed transportation-related technologies. In conjunction with this data collection and analysis activity, the ORNL Transportation Program is developing a comprehensive library of documents relevant to transportation end-use activities and energy conservation; this document collection is managed by the Energy and Environmental Response Center of the Information Center Complex at ORNL.

The first edition of the *Transportation Energy Conservation Data Book*¹ was published in October 1976. Four quarterly supplements²⁻⁵ and the *Transportation Energy Conservation Data Book, Edition 1.5*⁶ were issued to augment the original document; each included an annotated bibliography. In October 1977, *Transportation Energy Conservation Data Book, Edition 2*⁷ was published. As a result of the extensive development of the collection

¹A. S. Loebel, D. J. Bjornstad, D. F. Burch, E. B. Howard, J. F. Hull, D. G. Madewell, N. S. Malthouse, and M. C. Ogle. 1976. *Transportation energy conservation data book, edition 1.* ORNL-5198. Oak Ridge National Laboratory, Oak Ridge, Tenn.

²D. B. Shonka and A. S. Loebel. 1976. *Transportation energy conservation data book, supplement I.* ORNL-5232. Oak Ridge National Laboratory, Oak Ridge, Tenn.

³D. B. Shonka. 1977. *Transportation energy conservation data book, supplement II.* ORNL-5247. Oak Ridge National Laboratory, Oak Ridge, Tenn.

⁴A. S. Loebel. 1977. *Transportation energy conservation data book, supplement III.* ORNL-5248. Oak Ridge National Laboratory, Oak Ridge, Tenn.

⁵D. B. Shonka, A. S. Loebel, and P. D. Patterson. 1977. *Transportation energy conservation data book, supplement IV.* ORNL-5248. Oak Ridge National Laboratory, Oak Ridge, Tenn.

⁶D. B. Shonka, A. S. Loebel, M. C. Ogle, M. L. Johnson, and E. B. Howard. 1977. *Transportation energy conservation data book, edition 1.5.* CONS/7405-1. U.S. Energy Research and Development Administration, Washington, D.C.

⁷D. B. Shonka, A. S. Loebel, and P. D. Patterson. 1977. *Transportation energy conservation data book, edition 2.* ORNL-5320. Oak Ridge National Laboratory, Oak Ridge, Tenn.

of documents relevant to transportation energy conservation, *Transportation Energy Conservation Data Book: A Selected, Annotated Bibliography, Edition 2*⁸ was published as a separate document and was made available on a limited basis.

Due to the favorable response to that publication, *Transportation Energy Conservation Data Book: A Selected Bibliography, Edition 3* is also being published as a separate report. This volume is a selected, keyworded bibliography of 819 references that represent the most current and relevant documents dealing with transportation energy demand and conservation. Also included are ten reviews of important data sources used in compiling *Transportation Energy Conservation Data Book, Edition 3*. Some of these reports were prepared for the TEC Division of DOE (e.g., SRI's reports on rail energy use and diesel cars); others were developed for agencies such as the National Academy of Sciences, the Congressional Budget Office, and the Department of Transportation.

Transportation Energy Conservation Data Book: A Selected Bibliography, Edition 3 was prepared not only to augment the *Transportation Energy Conservation Data Book, Edition 3*⁹ and to assist TEC, but also to better document the developing resources at ORNL. Users are encouraged to send comments concerning errors or omissions, areas of emphasis, and document organization to the Data Management and Analysis Group, Energy Division, Oak Ridge National Laboratory, Oak Ridge, Tennessee 37830.

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⁸E. B. Howard, B. Y. Barber, A. C. Jordan, and C. C. Seaborn. 1977. *Transportation energy conservation data book: a selected, annotated bibliography, edition 2*. ORNL/EIS-114 (Part 2 of ORNL-5320). Oak Ridge National Laboratory, Oak Ridge, Tenn.

⁹D. B. Shonka, ed. 1978. *Transportation energy conservation data book, edition 3*. ORNL-5493. Oak Ridge National Laboratory, Oak Ridge, Tenn.

ACKNOWLEDGMENTS

The authors would like to acknowledge the support of Philip Patterson, Division of Transportation Energy Conservation of the Department of Energy, and the authors of the *Transportation Energy Conservation Data Book, Edition 3* — Debbie Shonka, David Greene, Axel Rose, Jennifer Hill, Ken Reed, Eric Chen, Tim Gangaware, Brad Murphy, and Gwen Walton — who provided helpful suggestions and guidance in the preparation of this bibliography. Finally, thanks to Sherry Alcorn and Faye Fletcher of the Information Center Complex Computer Production Group, who carried out the computer production of the report, and to Carol McGlothin, Information Center Complex Publications Office, for editorial assistance.

TRANSPORTATION ENERGY CONSERVATION DATA BOOK:
A SELECTED BIBLIOGRAPHY, EDITION 3

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L. K. Plemons, P. A. Purnell, and R. S. Weaver

HIGHLIGHTS

This bibliography, the second in a series of reports on energy conservation and consumption in the transportation sector, was compiled as part of the continuing technical information support provided by the Energy and Environmental Response Center (EERC) to the Energy Division of the Oak Ridge National Laboratory. The EERC maintains an on-line bibliographic data base documenting energy conservation and consumption in various economic sectors. The citations in this bibliography were selected from a comprehensive file of transportation materials.

A companion volume, *Transportation Energy Conservation Data Book, Edition 3* (ORNL-5493) is an encyclopedia of statistical data on energy utilization by major transportation modes, research and development of alternate transportation modes and fuels (electric vehicles and alcohol fuels), and other pertinent factors influencing energy consumption in the transportation sector. These same subjects are included in this bibliography, which is a desk-top compilation of references. The data in the data book were taken from certain key research studies. Reviews of these studies are included in this bibliography.

All references are keyworded and arranged alphabetically by author or corporate author if individual authors are not cited in the document. Reports sponsored by the Transportation Energy Conservation Division of the Department of Energy are listed in a separate section. Author, corporate author, sponsor, report number, keyword, and permuted title indexes are provided.

INTRODUCTION

Of the 71.1 quads of energy consumed in the United States in 1975, 18.5 quads were used by the transportation sector in the form of oil-derived fuels - gasoline for automobiles; diesel fuels for trucks, trains, and buses; and kerosene for jet aircraft. Major conservation efforts have been launched by the Division of Transportation Energy Conservation (TEC)

The following indexes are provided: (1) author, (2) corporate author (the organization which performed the study), (3) sponsor (the organization which provided partial or complete funding for the study), (4) report number, (5) keywords (words which describe the main concepts of the document), and (6) permuted title. The permuted title index lists each document alphabetically by principal words in the title.

This bibliography was compiled as a result of the continuing technical information support which the Energy and Environmental Response Center, Information Center Complex, provides to the Energy Division of the Oak Ridge National Laboratory. These citations were selected from a comprehensive file of over 3000 documents concerning transportation energy consumption and conservation. This on-line retrievable data base is continually expanded and updated.

AVAILABILITY OF REPORTS

If no information on document availability is provided, or if only a price is listed, the document may be obtained from either the corporate author or the sponsor. Explanation of other availability information in citations is given below:

GPO — For sale by the Superintendent of Documents
U.S. Government Printing Office
Washington, D.C. 20402
(Prices subject to change)

NTIS — For sale by the National Technical Information Service
U.S. Department of Commerce
Springfield, Virginia 22161
(Prices subject to change)

REVIEWS OF SELECTED STUDIES

COMPARISON OF U.S. ENVIRONMENTAL PROTECTION AGENCY
FUEL ECONOMY RATINGS WITH ON-THE-ROAD EXPERIENCE

The U.S. Environmental Protection Agency (EPA) fuel economy ratings provide a complete data base for estimating fuel economy trends, but there has been much debate concerning whether these ratings are representative of actual fuel economy experienced on the road. Energy and Environmental Analysis, Inc., in collaboration with the U.S. Department of Energy, has completed the first significant contribution towards resolving this issue.¹ Their study addresses whether EPA certification test results reflect actual on-the-road fuel economy for recent model years (1974-1977) and whether improvements in average EPA fuel economy with successive model years can be viewed as an expected reduction in actual fuel consumed per automobile-mile.

In its current phase, the study restricts its attention to available fuel economy measurements reported from (1) drivers' experiences (fleets and individual consumers) and (2) driving cycle results obtained from dynamometer and road tests. These observations, to be compared with each other and with EPA certification results published in the well-known mileage guide, fall into five categories:

1. Drivers' experiences
 - a. Consumer driving records in which drivers kept track of gasoline purchased and miles driven. Although this is the most ideally suited data base for the analysis, this source consists primarily of surveys by private corporations (an automobile manufacturer and several oil companies).
 - b. Owner estimates not based on actual measurements. These data are taken from the EPA emission factors program as well as from consumer complaint files.
2. Driving cycle results
 - a. Fleet driving records from privately (several corporations) and publicly (state governments) owned fleets. This data base comprises more observations than any other on-the-road data source.

- b. In-use dynamometer tests, some of which were performed as part of the EPA emissions factor program. The remainder were carried out by several corporations (primarily oil companies), many of which supplied consumer driving records as well.
- c. Road tests which measure on-the-road fuel economy on prescribed driving cycles (e.g., Consumers Union).

Approximately 5000 in-use vehicles representing model years 1974 through 1977 comprise the data base summarized in Table 1.

The study systematically compares these observations with EPA certification test results on a model-to-model basis in search of various types of discrepancies:

1. Absolute differences between EPA ratings and on-the-road experience
2. Relative differences (i.e., whether the EPA-implied ranking of models corresponds with the ranking from actual experience)
3. Variation of the discrepancies over time (more minor effects, among manufacturers for example, are also explored)

The causes for the discrepancies, although discussed only briefly in the study, were seen to stem from two sources: (1) vehicle differences which reflect the extent to which the prototype EPA-tested vehicle represents all cars of that model type and which would be seen in a comparison of EPA certification ratings with in-use dynamometer results and (2) operational differences which would be seen in a comparison of the in-use dynamometer tests and on-the-road performance (the effect of variable driving practices among vehicles tested was felt to be suppressed in the aggregation of results for each model type).

Alternative statistical techniques were tested, and the final form of the regression analysis was based on a simple linear relationship between on-the-road and EPA fuel economy measurements:

$$\text{on-road miles per gallon} = \alpha + \beta * (\text{test miles per gallon}). \quad (1)$$

Within each of the five basic data types, the average of (often several) in-use results for each model was used to avoid undue weighting of a model with many observations. (The results changed significantly between individual and aggregated treatment of models.) A comparison of two data sets involved a linear regression (Eq. 1) of these average data by model type.

Table 1. Summary of data sources for comparison of in-use experience with EPA certification results

Source	Model year	Total number of data points	Fleet operations	Owners estimates	Consumer driving	Dynamometer tests ^a	Road tests ^a
EPA certification	1974-1977	1831				C	
Union Oil	1975	107				C	S
Dupont	1974-1976	66			X	C	
General Motors	1975-1976	1714			X	C	
Mobil Oil	1974-1977	63			X	C	
Shell Oil	1975-1977	30			X	C	
Motor Trend	1974-1977	121					0
Shell Canada	1975	46			X	C	
Consumer Letters	1974-1977	134		X			
Consumers Union	1975-1977	83					0
TRW	1974-1977	77	X				
Maryland Department of Transportation	1974-1977	845	X				
Maine Department of Transportation	1974-1977	18	X				
EPA emission factors data	1974-1976	1287		X		C	
Industrial hydrocarbons	1976	1	X				
J. Glass Leasing	1977	5	X				
New Jersey Department of Transportation	1974-1975	211	X				
Texaco Oil	1974-1977	38	X		X	C	
EPA	1974-1976	687	X				
API	1974-1975	4075	X				
AT&T	1976	3	X				
Amoco Oil	1974-1977	156			X		

^aDriving cycle: C - certification test procedure; S - SAE driving cycle; 0 - other.

Source: Compiled from B. D. McNutt, D. Pirkey, R. Dulla, and C. Miller. 1978. A comparison of fuel economy results from EPA tests and actual in-use experience, 1974-1977 model year cars. U.S. Department of Energy, Washington, D.C. Tables 2a and 2b.

To determine which observations would provide a valid representation of on-the-road experience to compare with EPA tests, the five basic data types were analyzed with the following conclusions:

1. Road-test fuel economy results (Consumers Union and *Motor Trend*) are systematically higher than on-the-road experience.
2. Owner estimates compare quite closely with actual on-the-road measurements but are eliminated from the final analysis because of their inherent uncertainty. As expected, a separate set of owner estimates from consumer complaints are considerably lower than on-the-road experience, by an average of 1 mpg.
3. In-use dynamometer test results compare fairly closely with EPA ratings, with the results for each model year falling systematically above the ratings for low-mileage cars and below the ratings for high-mileage cars.
4. Fleet and consumer-driving fuel economy records give sufficiently similar results for all model years so that they can be combined for comparison with EPA tests.

With this preliminary analysis, fleet results combined with consumer-driving results were adopted as the data base most representative of on-the-road experience. These results were compared with EPA certification (composite, city) and in-use dynamometer test results.

The results of comparing these on-the-road results with EPA composite fuel economy ratings for each model year are summarized in the linear fits in Fig. 1. The EPA tests fairly closely approximate on-the-road experience for 1974 models; they are progressively less representative with each newer model year through 1977. The divergence is substantial for higher-mileage cars. This analysis suggests that, for a car whose actual fuel economy is 20 mpg, the EPA testing overestimates actual fuel economy by 20% in 1976 and 30% in 1977.

Throughout the analysis, the effects of vehicle mileage are obviously important but are difficult to quantify; the sample would ideally include 1974 model-year cars with fuel economy records from 1974, when they were new, as well as from a more recent year. In the study, no adjustment was made for vehicle mileage with the justification, supported by an earlier study, that fuel economy tends to improve during a vehicle's first few years.

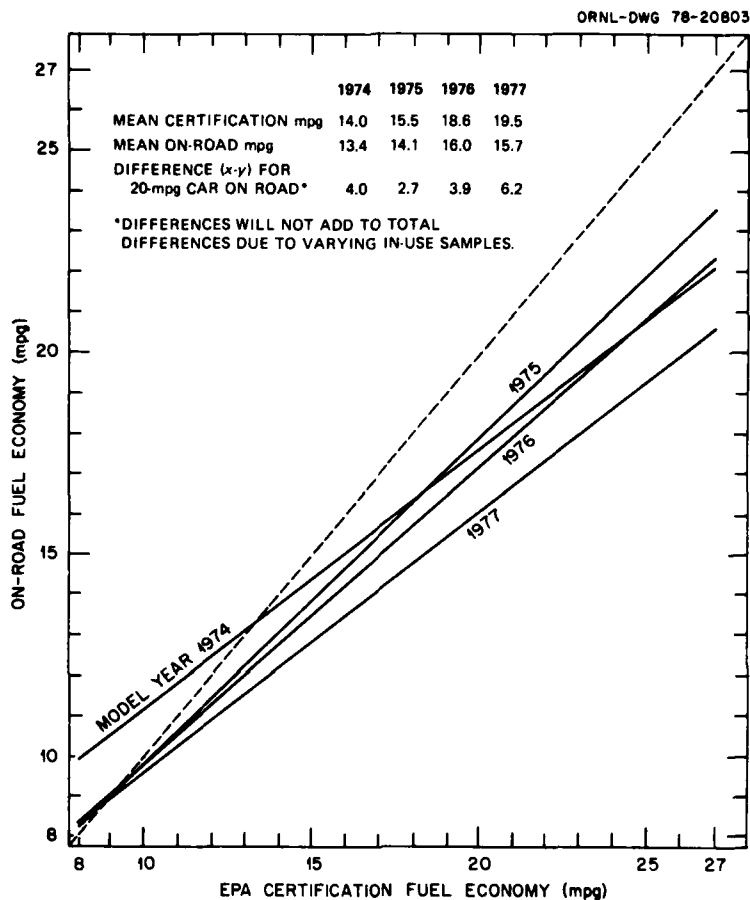


Fig. 1. Linear relation of EPA certification to on-road fuel economy for model years 1974 through 1977. Source: Compiled from B. D. McNutt, D. Pirkey, R. Dulla, and C. Miller. 1978. A comparison of fuel economy results from EPA tests and actual in-use experience, 1974-1977 model year cars. U.S. Department of Energy, Washington, D.C. Fig. 8a-8d, pp. 31-34.

An interesting result is that if EPA city instead of composite results are used in the analysis, the same trend of increasing discrepancy with recent model years is evident. For 1974 models, EPA city tests underestimate on-the-road performance, but in 1977 they overestimate a 20-mpg performance by 15%. Thus, the EPA city rating, which is viewed by many as the "worst" fuel economy a car is likely to experience, actually underestimates actual mileage for recent models.

Given this absolute discrepancy between EPA results and actual fuel economy, an analysis of ranking was applied to the observations to determine whether EPA results provide a valid relative ranking of models for any model year. For each comparison, the likelihood of a reversal of rank for a given miles-per-gallon difference was calculated. For on-the-road compared with EPA results, the likelihood is 40% for a difference of 1 mpg but is only 10% if the results differ by 4 mpg. Because EPA composite tests for many models overestimate on-the-road performance by 4 mpg or more, the ranking may apply to more models than one could infer from the way the conclusions are presently stated in the report. In the next phase of the study, alternative ways of presenting the ranking analysis should be explored.

The study realistically presents its conclusions as preliminary, with plans for augmenting the data base and applying more sophisticated statistical methods. A major effort in augmenting the data base is needed. Answering unresolved questions and verifying preliminary conclusions will require a new large set of systematic measurements by individual drivers so that accuracy and consistency of data can be assured. (The small set of "consumer driving" data in this study were generated by corporations and to some extent may be inherently similar to fleet data.) With a planned extensive data collection program, vehicle mileage could become a significant variable in the analysis to help explain the trends seen for successive model years. Further resolution of EPA results versus actual fuel economy results is sufficiently important to warrant a major data collection effort. The methodology developed for this study may well serve as the model for future analyses of the problem.

References

1. McNutt, B. D., D. Pirkey, R. Dulla, and C. Miller. 1978. A comparison of fuel economy results from EPA tests and actual in-use experience, 1974-1977 model year cars. U.S. Department of Energy, Washington, D.C.

Reviewed by
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THE CONGRESSIONAL BUDGET OFFICE'S REPORT ON
ENERGY USE BY URBAN TRANSPORTATION MODES

In response to a request from Senator Lloyd Bentsen, the Congressional Budget Office prepared a summary of existing estimates of energy consumption by urban transportation modes and presented a systematic methodology for using these estimates to compare the energy efficiency of these modes.¹ The overall goal of the study was to assess the energy conservation potential of available modes.

In order to include a complete range of contributions to the overall energy use, a hierarchy of four levels of comprehensiveness was developed, as shown in Fig. 1. *Energy intensiveness* measures the energy required to move the vehicle and is generally expressed as energy use per passenger-mile (propulsion energy use per vehicle-mile divided by the average occupancy per vehicle). *Line-haul energy* includes in the propulsion energy secondary energy contributions from vehicle manufacture, station operation, etc. *Modal energy* measures the average energy consumed per mile of a trip, which may include an access mode in addition to the main mode, and extra nonproductive travel miles (circuitry) due to transit routing. *Program energy*, the amount of energy saved per mile for a trip by the new mode when compared with the alternative mode used before the new mode was available, provides a measure of fuel savings to be attributed to new modes.

Because of the number of different estimates available for the components which make up these measures of energy efficiency, a range of estimates is carefully presented for each component. Tables 1 and 2 represent excellent summaries of existing estimates for vehicle propulsion energy and average occupancy. Similar tables for indirect energy requirements and access modes are included in the report. Tables 3-5 summarize the resulting middle estimate adopted in the study. Analogous tables are also provided for low and high estimates.

Although the estimates of line-haul and modal energy are valuable, the lengthy conclusions of the study are derived exclusively from the program energy. Unfortunately, as one proceeds up the hierarchy from energy intensiveness to program energy, the available data become very sparse and much less reliable. For example, the estimates of percentage of trip devoted to access are generalized from a single data point for the Lindenwold Line

ORNL-DWG 78-21634

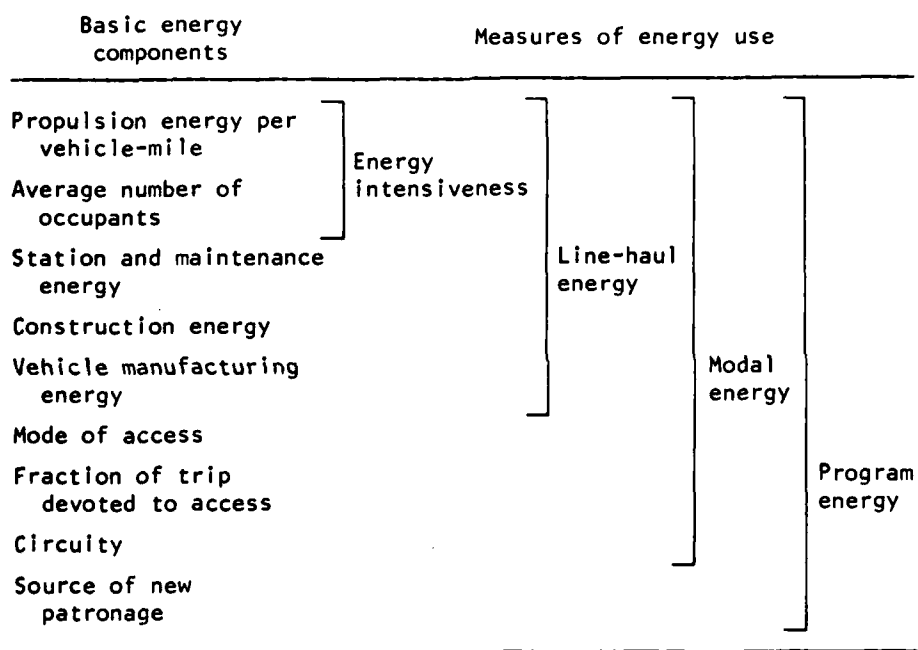


Fig. 1. Hierarchy of measures of energy use. Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environment and Public Works. Serial No. 95-8. p. 8.

Table 1. Various estimates of vehicle propulsion energy for urban transportation modes: averages for general urban areas and specific cities (systems)

Mode of transportation	Vehicle propulsion energy ^a		City (system)
	(mpg) ^b	(Btu/mile)	
Automobile	7.5	16,790	General urban (six seat) ^e
	11.4	10,970	General urban ^d
	13.5	9,260	General urban ^e
	13.9	8,990	New York metropolitan area (1972) ^f
	15.0	8,330	General urban (four seat) ^c
	22.5	5,260	General urban (light car) ^g
	9.0	13,900	Minneapolis ^h
Dial-a-ride	4.2	29,780	Los Angeles ⁱ
	7.0	17,850	General urban (gas vehicle) ^g
	7.3-9.0	13,900-17,130	Nine cities ^j
	13.5	9,250	General urban (diesel vehicle) ^g
Heavy rail (old)	0.52	241,240	New York City (Staten Island Rapid Transit) ^k
	0.52	240,880	Boston (includes light rail) ^k
	1.33	93,830	Cleveland ^k
	1.35	92,560	New York City (Transit Authority) ^k
	1.44	86,680	Philadelphia ^k
	1.71	73,180	New York City (Transit Authority) ^f
	1.72	72,880	New York/New Jersey (PATH) ^k
	2.02-3.31	37,800-62,000	Five cities (1964) ^l
	2.04	61,400	New York City (Transit Authority) ^m
	2.09	59,800	New York/New Jersey (PATH) ^m
	2.41	51,879	Chicago ^k
	4.00	31,300	Cleveland ^e

Table 1 (continued)

Mode of transportation	Vehicle propulsion energy ^a		City (system)	
	(mpg) ^b	(Btu/mile)		
Heavy rail (new)	1.07	117,100	San Francisco (BART) ^k	
	1.15	109,020	Philadelphia (Lindenwold) ^k	
	1.23	101,780	San Francisco (BART) ⁿ	
	1.44	86,900	Philadelphia (Lindenwold) ^o	
	1.45	86,100	Philadelphia (Lindenwold) ^m	
	1.78	70,080	San Francisco (BART, actual) ^m	
	2.13	58,800	San Francisco (BART, projected) ^m	
	2.23	56,175	San Francisco (BART, actual) ^p	
	2.57-2.84	44,000-48,580	San Francisco (BART, projected) ^p	
	Commuter rail	0.80	154,500	San Francisco ^z
0.96		129,900	San Francisco ^k	
1.14		109,350	Chicago (average) ^k	
1.21		103,500	New York (average) ^k	
1.21		103,000	Philadelphia (average) ^k	
1.27		98,213	Boston ^k	
1.80-2.90		43,150-69,540	Several cities (1964) ^z	
Light rail		1.19	105,000	Philadelphia (SEPTA, city) ^g
		1.45	86,400	Philadelphia (SEPTA, Red Arrow) ^g
		1.54	81,284	Pittsburgh ^k
	1.66	75,147	San Francisco (MUNI) ^k	
	2.17	57,750	Rochester (proposed) ^z	
	2.41	51,992	Newark ^k	
	3.6	34,940	New York City (Transit Authority) ^f	
	3.6	34,740	General urban (local bus) ^z	
	3.8	32,660	General urban ^g	
	4.0	31,270	Atlanta (1976) ^q	
Bus				

Table 1 (continued)

Mode of transportation	Vehicle propulsion energy ^a		City (system)
	(mpg) ^b	(Btu/mile)	
Personal rapid transit	4.1	30,500	Cleveland ^c
	4.4	28,430	Atlanta (projected, 2000) ^q
	4.8	26,310	Northern New Jersey ^f
	4.8	26,060	General urban (express bus) ^r
	5.6	22,330	Oakland (efficient bus) ^p
Group rapid transit	6.2-13.1	9,560-20,205	Two systems ^g
	9.6-31.0	4,030-13,000	General urban ^c
	4.2-15.4	8,100-30,000	General urban ^c
Shuttle loop transit	7.4-11.4	11,000-17,000	General urban ^c
	5.3	23,800	Dallas (Airtrans) ^r
	5.0	25,200	Dallas (Airtrans) ^r
Downtown people mover	1.75	71,400	Los Angeles (proposed) ^s

^aNot all sources have used the same conversion factors between different energy units. For consistency, estimates have been converted by using the following equations: 1 gal gasoline = 125,071 Btu and 1 KWhr(e) = 10,500 Btu.

^bMiles per gallon of gasoline or equivalent.

^cTucker, H. L., Jr. 1977. Energy efficiency of urban transit systems. Presented at Fourth National Conference on the Effect of Energy Constraints on Transportation.

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Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environmental and Public Works. Serial No. 95-8. Table 1.

Table 2. Various estimates of vehicle occupancy for urban transportation modes: averages for general urban areas and specific cities (systems)

Mode and city (system)	Vehicle occupancy (passenger-miles per vehicle-mile)	Load factor (passenger-miles per seat-mile)
Automobile		
National home-to-work and work-related travel ^a	1.4	0.28
Average for specific cities		
Philadelphia ^b	1.14	0.23
New Jersey ^c	1.12-1.24	0.22-0.25
Albuquerque ^d	1.43	0.29
Chicago ^d	1.43	0.29
San Diego ^d	1.48	0.30
Baltimore ^d	1.49	0.30
New York metropolitan area ^e	1.5	0.30
National urban area average ^d	1.63	0.33
Light rail		
Average for specific cities		
Newark ^f	9.4	0.15
Philadelphia (SEPTA, city) ^f	17.7	0.28
Philadelphia (SEPTA, Red Arrow) ^f	17.8	0.28
San Francisco ^f	23.6	0.37
Cleveland ^{d,f}	26.5	0.42
Pittsburgh ^f	27.8	0.44
Heavy rail		
Old systems		
New York/New Jersey (PATH) ^f	17.3	0.24
Chicago (1973) ^g	18.6	0.26
New York City (Transit Authority, 1973) ^g	19.7	0.27
Boston (includes light rail) ^f	25.6	0.36
Chicago ^f	20.7	0.29
Cleveland ^f	23.9	0.33
New York City (Transit Authority) ^f	25.0	0.35
Philadelphia (SEPTA) ^f	28.8	0.40
New systems		
San Francisco (BART) ^f	19.8	0.27
San Francisco (BART, 1975) ^g	21.4	0.30
Philadelphia (Lindenwold) ^f	22.5	0.31
National urban area average ^h	24.5	0.34
Urban bus		
Average for specific cities		
Albuquerque ^d	4.9	0.10
Southern Connecticut ^e	9.8	0.20
Chicago ^d	10.9	0.22
San Diego ^d	11.7	0.23

Table 2 (continued)

Mode and city (system)	Vehicle occupancy (passenger-miles per vehicle-mile)	Load factor (passenger-miles per seat-mile)
New York City (Transit Authority) ^e	13.8	0.28
Baltimore ^d	19.1	0.28
National urban area average, 1973 ^h	11.5	0.23
Dial-a-ride		
Nine cities ^h	1.00-2.86	0.05-0.15
Seven cities ⁱ	0.8-3.3	0.04-0.17
Median	1.62	0.09
Commuter rail		
Average for specific cities		
New York metropolitan area ^f	24.2	0.24
Boston ^f	25.6	0.26
Philadelphia ^f	29.4	0.29
New York metropolitan area ^e	32.2	0.32
Chicago ^f		
Burlington Northern	58.7	0.59
Chicago and Northwestern	47.7	0.48
Illinois Central	59.5	0.60
Milwaukee	50.2	0.50
Norfolk and Western	20.7	0.21
Rock Island	36.7	0.37
San Francisco ^f	47.5	0.48
National urban area average ^h	42.6	0.43
Vanpool		
Minneapolis (3M Company) ^j	10.5	0.87
Carpool		
New York/New Jersey (Port Authority) ^k	2.94	0.59
El Segundo, California ^l	3.09	0.62
Boston ^m	3.16	0.63
Connecticut ⁿ	3.70	0.74

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Table 3. Middle estimates of basic components of operating energy intensiveness and line-haul energy by urban transportation modes (Btu/vehicle-mile)

Mode	Propulsion energy	Average number of occupants	Station and maintenance energy	Construction energy	Vehicle manufacturing energy
Single-occupant automobile	11,000	1.0	2,000	125	1,100
Average automobile	11,000	1.4	2,000	125	1,100
Carpool	11,000	3	2,000	125	1,100
Vanpool	14,000	9	2,000	200	2,000
Dial-a-ride	15,500	1.6	2,000	200	2,000
Heavy rail (old)	61,000	24	9,000	3,000	1,500
Heavy rail (new)	75,000	21	15,000	4,000	1,500
Commuter rail	105,000	40	7,000	1,200	2,500
Light rail	75,000	20	7,000	1,700	2,000
Bus	30,000	11.5	900	370	1,200
Personal rapid transit	11,000	2	5,000	300	1,000
Group rapid transit	20,000	6	6,000	600	1,000
Shuttle loop transit	23,000	10	7,000	600	1,000

Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environment and Public Works. Serial No. 95-8. Table 7.

Table 4. Middle estimates of access, circuitry, and source of patronage by urban transportation modes

Mode	Mode of access (%)	Percentage of trip devoted to access	Circuitry (relative to trip by auto)	Percentage of new patrons by former mode
Automobile	NA ^a	0	1.0	NA
Carpool	NA	0	1.15	15 bus 25 carpool 60 single-occupant auto
Vanpool	NA	0	1.2	5 bus 40 carpool 55 single-occupant auto
Dial-a-ride	NA	0	1.4	10 bus 25 walk 45 auto (15 taxi) 20 new trip ^b
Heavy rail (old)	20 bus 40 auto 40 walk	15	1.2	NA
Heavy rail (new)	10 bus 70 auto 20 walk	18	1.3	45 bus 35 auto 10 new trip ^b 10 other
Commuter rail	5 bus 15 walk 80 auto	18	1.3	30 bus 40 auto 10 new trip ^b 20 other
Light rail	20 bus 50 walk 30 auto	10	1.2	50 bus 30 auto 10 new trip ^b 10 other
Bus (express)	25 auto 75 walk	10	1.1	25 bus 55 auto 10 new trip ^b 10 other

^aNA - Not applicable.

^bThere is no diversion from a former mode; a person who previously did not use a mode of urban transportation is using the new mode.

Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environment and Public Works. Serial No. 95-8. Table 8.

Table 5. Middle estimates for various measures of energy requirements by urban transportation modes (Btu/passenger-mile)

Mode	Operating energy intensity	Line-haul energy	Modal energy	Program energy (net savings)
Single-occupant automobile	11,000	14,220	14,220 ^a	NA ^b
Average automobile	7,860	10,160	10,160 ^a	NA
Carpool	3,670	4,740	5,450	4,890
Vanpool	1,560	2,020	2,420	7,720
Dial-a-ride	9,690	12,310	17,230	(12,350) ^c
Heavy rail (old)	2,540	3,100	3,990	NA
Heavy rail (new)	3,570	4,550	6,580	(980) ^c
Commuter rail	2,625	2,890	5,020	970
Light rail	3,750	4,280	5,060	30
Bus	2,610	2,820	3,070	3,590 ^d
Personal rapid transit	5,500	8,650	<i>e</i>	<i>e</i>
Group rapid transit	3,330	4,600	<i>e</i>	<i>e</i>
Shuttle loop transit	2,300	3,160	<i>e</i>	<i>e</i>

^aBy definition, there are no access energy requirements for automobiles, so modal energy equals line-haul energy.

^bNA - Not applicable.

^cEnergy loss.

^dFor new express bus service. Conventional bus service would show smaller savings.

^eData not available for access modes and source of patronage since these modes are still largely under development.

Source: Adapted from D. Kulash, R. Mudge, and D. Prywse. 1977. Urban transportation and energy: The potential savings of different modes. Congressional Budget Office report to U.S. Senate Committee on Environment and Public Works. Serial No. 95-8. Table 9.

commuter rail service combined with the authors' judgement: "The access factor is likely to be smaller for systems that are less suburb-oriented and for those with more extensive line-haul networks (such as buses)." Data on access modes, circuitries, and sources of new patronage from new lines are similarly created. The conclusions based on this evaluation of program energy point to vanpooling and buses as offering the greatest energy conservation potential, with rapid rail transit demonstrating a negative program energy due to an overall increase in energy consumed for travel after the institution of the new system.

The latter conclusion generated considerable controversy and culminated in a large set of rebuttals which appeared in the hearings.² The negative program energy for rail transit originates to a great extent from new trips generated by a new system: the net energy effect of new trips is to add energy to the total energy use for travel. Many critics objected to this method of energy accounting for new trips which, over the longer run, might lead to even greater energy use in the absence of the new mode. In addition, the study was criticized for comparing modes on an average basis rather than in the context of specific systems.

These comments notwithstanding, the Congressional Budget Office study presents the best, most concise summary of estimates of energy use by existing modes in the literature. Used in the proper context, these estimates can be valuable input for energy analyses of urban transportation systems.

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THE ENERGY INFORMATION ADMINISTRATION'S 1977
ANNUAL REPORT TO CONGRESS

The *Energy Information Administration 1977 Annual Report to Congress*¹ outlines the activities of the Energy Information Administration (EIA) in 1977, presents historical data on the energy situation, and gives projections for energy development and use through the year 2000. The report is published in three volumes. Volume I describes the organization, responsibilities, activities, and accomplishments of each office within EIA. Volume II, *Forecasts of Energy Supply and Demand*, presents separate short-term and mid-term projections, assuming the continuation of existing energy policies, but with assumed variations in levels of economic growth, growth of oil and gas production, and real price in world oil. Volume III, *Statistics and Trends of Energy Supply, Demand, and Prices*, contains statistical charts and tables of exploration, development, production, processing, distribution, sale, and consumption of various energy sources, both past and present.

The EIA report is significant because it not only presents the current state of the energy situation, but it also forecasts the effects of existing energy policy. According to EIA, the United States has been a net importer of fossil fuels since 1953, with the gap between imports and exports increasing steadily. All EIA projections imply that existing U.S. energy policy will not be able to reduce this growing dependence on imports.

Assuming the continuation of existing energy policy, EIA projects that energy use through 1990 will grow at a lower rate than the growth rate experienced since 1960. This lower rate of energy use is a result of conservation and of consumer reaction to higher energy prices. However, domestic energy production is projected to increase at lower rates than the projected increase in consumption. Although rapid increases are projected in the domestic supply of coal, nuclear, and other domestic fuel sources, total domestic oil and gas production is projected to decrease or, at best, to be sustained at current levels. Thus, dependence on foreign oil and other imports will continue to grow.

The short-term and mid-term EIA projections were obtained from an integrated framework of several models incorporated with macroeconomic forecasts and energy supply and price assumptions (Fig. 1), assuming the continuation of existing energy policies. These assumptions were used to prepare projections based on combinations of energy demand, domestic energy supply, and increasing world oil prices. Because of possible future resource and environmental limitations on existing energy systems and because of EIA's use of historical relationships between economic growth and energy consumption, EIA did not make projections beyond the year 1990. Rather, they compared the EIA short-term and mid-term projections with long-term projections developed by other organizations. EIA's projections are in line with the range covered by these long-term projections.

The EIA report gives a historical view of the U.S. energy situation and an analysis of existing energy policy. Obviously, if these policies are changed, the results could vary widely. Thus, EIA's projections of the effect of new and emerging technologies are limited by the current governmental support for these technologies; any questions about the effects of more vigorous conservation efforts, new programs, and more support for the development of emerging technologies are not considered in this report.

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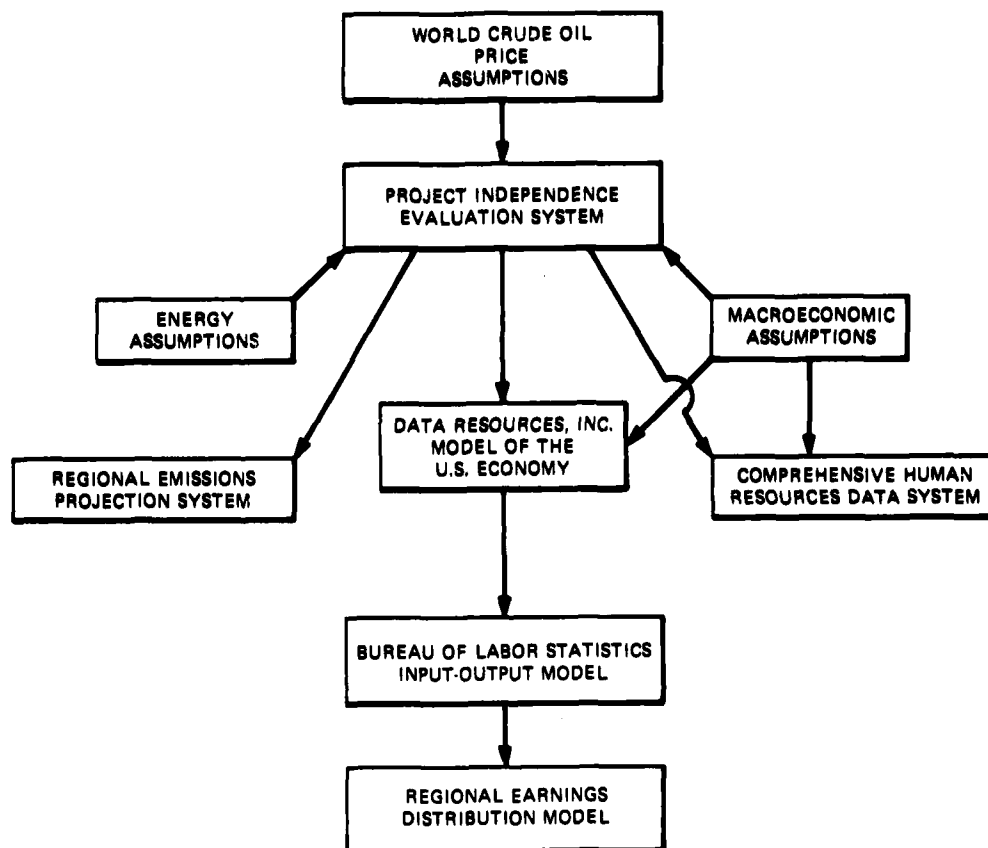


Fig. 1. Schematic representation of the energy/economic/environmental assessment system. Source: Adapted from Energy Information Administration. 1978. Energy Information Administration 1977 annual report to Congress, Vol. II. DOE/EIA-0036/1. U.S. Department of Energy, Washington, D.C. Fig. 2, p. 5.

THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM'S
REPORT ON ENERGY INTENSITY OF TRANSPORTATION MODES

In 1977 the National Cooperative Highway Research Program (NCHRP) compiled a synthesis (NCHRP Synthesis 43) of transportation practices entitled *Energy Effects, Efficiencies, and Prospects for Various Modes of Transportation*. It emphasizes an analysis of transportation energy use data, concentrating on total direct consumption and conservation potential. In addition to an original analysis of the data, the report presents summary data from recent studies.* Energy efficiencies derived by the various studies are listed without criteria for evaluation or comparison of their accuracies. The synthesis contains basic national energy consumption data and includes a breakdown by sector, a disaggregation within the transportation sector by transport mode, and a chart illustrating national energy trends.

The overall design, operation, and use of several passenger and freight transport modes are examined and related to the energy efficiency of that mode. The following data are presented in Chapter 2, which deals with passenger transport modes:

1. Passenger-miles
2. Transportation services rendered
 - a. Vehicle-miles per year
 - b. Passenger-miles per year
 - c. Average vehicle occupancy
3. Fuel consumption
 - a. Gallons per year
 - b. British thermal units per year with percentage of total direct transportation energy
4. Average efficiency
 - a. British thermal units per passenger-mile
 - b. Passenger-miles per gallon

*Data from Aerospace Corporation's *Characterization of the U.S. Transportation System* and the Oak Ridge National Laboratory's *Transportation Conservation Data Book: Edition 2* (ORNL-5320), both published after this report, are not included.

5. Fuel cost

- a. Percentage of total operating cost
- b. Percentage of total operating cost plus travel time cost

Some disaggregated data are presented for each mode.

Automobile use accounts for 90% of all passenger-miles and for 97% of passenger-miles in trips less than 30 miles; therefore, it is given special attention in this study. Average miles per gallon of the new car fleets in 1970, 1974, and 1975 and projected values for the new car fleets in 1980 and 1985 are presented. These projections reflect both the driving habits of the population and anticipated technological changes in automobile manufacturing. Automobile weight, a major factor affecting mileage, can be reduced by various technological adjustments. The predicted fuel consumption values resulting from these and other changes are listed in the NCHRP synthesis. Special attention is also given to automobile fuel consumption and efficiency related to trip purpose.

The presentation of freight transportation data (Chapter 3) is similar to that for passenger data. It includes data for various freight transport modes:

1. Transportation services rendered
 - a. Vehicle-miles per year
 - b. Ton-miles per year
2. Fuel consumption
3. Average efficiency
 - a. British thermal units per ton-mile
 - b. Ton-miles per gallon

Most of the passenger and freight transport data are derived from 1972 statistics. Truck data are given special attention; disaggregations by duty and weight class are presented.* Pipeline transportation analysis is incomplete and inaccurate because of lack of data.

The authors of this synthesis recognized the pitfalls of a straight comparison of energy consumption data or British thermal units per passenger-mile among the different transport modes. For example, in a

*Most waterborne statistics were taken directly from the U.S. Army Corps of Engineers, *Waterborne Commerce of the United States Part 5, National Summaries*, 1973.

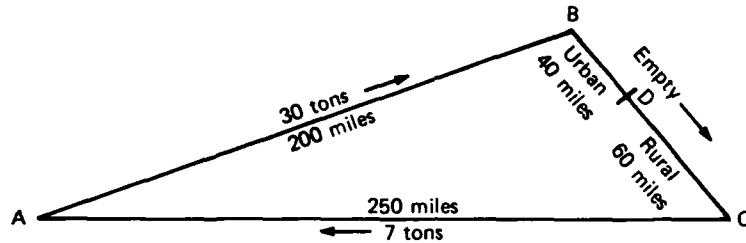
location with only one possible means of transportation (usually the automobile), a fair comparison cannot be made with other means of transport. Direct energy consumption and energy intensity alone are not always worthwhile information. Other factors such as the time factor and the hourly monetary value of the trip should be considered. In freight transport, British thermal units per ton-mile alone can be misleading. Some important factors to be considered in this case are the distance and speed at which the commodity is to be transported; the type, size, and density of the commodity; the cost of the commodity and the cost of its transport; and the availability of various transport modes. For example, water carriers transport long-haul bulk commodities; the railroads, dense commodities in large volume; and air carriers, small priority shipments. Trucks transport almost every commodity. The fact that the percentage of empty-haul-miles is different for each freight mode affects any comparison based strictly on British thermal units per ton-mile.

Figure 1, an example of a truck round trip, illustrates some of the factors that must be considered in analyzing energy efficiency. Varying any combination of percentage of empty-haul-miles, average miles per gallon, and amount and distance of cargo being hauled affects the energy efficiency results.

The authors asserted that their primary interest was not in restating the need for energy conservation or the need for implementation of policies to achieve greater conservation. However, a presentation of conservation techniques and a means for evaluation of the conservation potential of these techniques are presented in Chapter 4. For example, by using smaller cars Americans may save 361,000 bbl of gasoline per day; a savings of 84,000 bbl/day can be accomplished through the use of bus, train, and air carriers for intercity trips. Appendix B deals exclusively with fuel conservation techniques for automobiles and includes fuel economy potential by 1980 and 1985; relations among fuel economy, safety, and emissions; the effect of engineering and manufacturing "lead times" in forestalling implementation of fuel economy measures; test procedures to measure fuel economy; and means of enforcing an improvement standard.

The authors concluded that caution should be used in comparing energy efficiencies of the various transport modes. They also pointed to the need

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Full load out, long dead head for partial return load

A-B loaded, 30 tons, 200 miles at 3.5 mpg = 57.14 gal
 C-A loaded, 7 tons, 250 miles at 4.8 mpg = 52.08 gal
 37 tons 109.22 gal

Ton-miles = (30 tons) × (200 miles) = 6000 ton-miles
 (7 tons) × (250 miles) = 1750 ton-miles
7750 ton-miles

B-D Empty, 60 miles at 6 mpg = 10.00 gal
 D-C Empty, 40 miles at 3 mpg (urban stop and go) = 13.33 gal
23.33 gal

Total = 132.55 gal

Ton-miles/gal = 7750 ton-miles ÷ 132.55 gal = 58.47 ton-miles/gal
 Tons shipped per gallon = 37 tons ÷ 132.55 gal = 0.2791 ton/gal
 Empty mileage of 100 miles ÷ 550 miles = 18.18%

Fig. 1. Hypothetical example of intercity truck operations analyzed for fuel consumption. Source: Adapted from National Cooperative Research Program. 1977. Energy effects, efficiencies, and prospects for various modes of transportation. NCHRP Synthesis 43. p. 29.

for accurate data relating to the allocation of gasoline for automobile, truck, and nonhighway use and to estimates of vehicle-miles and auto occupancy values.

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OAK RIDGE NATIONAL LABORATORY'S REPORTS ON GASOLINE DEMAND

In 1978, Oak Ridge National Laboratory (ORNL) published two reports describing the results of an investigation of gasoline use across states: *An Investigation of the Variability of Gasoline Consumption among States*, ORNL-5391, and *Econometric Analysis of the Demand for Gasoline at the State Level*, ORNL/TM-6326. Utilizing data on state gasoline sales for highway use from 1966 to 1975, the study first documented the degree of variability of usage from state to state and then attempted to explain the observed variation via an econometric analysis. The models developed in the course of the study are explanatory in nature and were not designed to be used for forecasting gasoline use.

Highway gasoline sales, whether normalized by number of households, number of drivers, or number of vehicles, varied considerably from one state to another (Fig. 1). In terms of gasoline sales per registered vehicles in 1975, Arkansas was highest with 900 gal and Pennsylvania lowest at 589 gal. Gasoline sales per registered vehicle varied less than sales per household or per licensed driver. In short, large geographic differences were found in the amounts of gasoline used by residents of different states.

A two-stage approach was employed in the econometric analysis of the factors influencing gasoline sales per household. In the first phase a national gasoline demand equation was estimated for the time series (1966-1975) of aggregate state data (Hawaii and Alaska were omitted due to lack of data on gasoline prices). Explanatory variables in this equation were vehicle ownership per household, price of regular gasoline, personal disposable income, number of drivers per household, household size, and gasoline-powered trucks as percentage of all gasoline-powered vehicles. This last variable was included in an attempt to account for nonhousehold gasoline use. Given the high percentage of gasoline trucks which are light trucks for predominantly personal transportation, this variable must be considered a very crude measure. State dummy variables were also included in the equation to account for cross-sectional effects not captured by the other variables. These state-specific coefficients, which ranged from +300 to -307 gal/year, capture the average state deviation from consumption levels

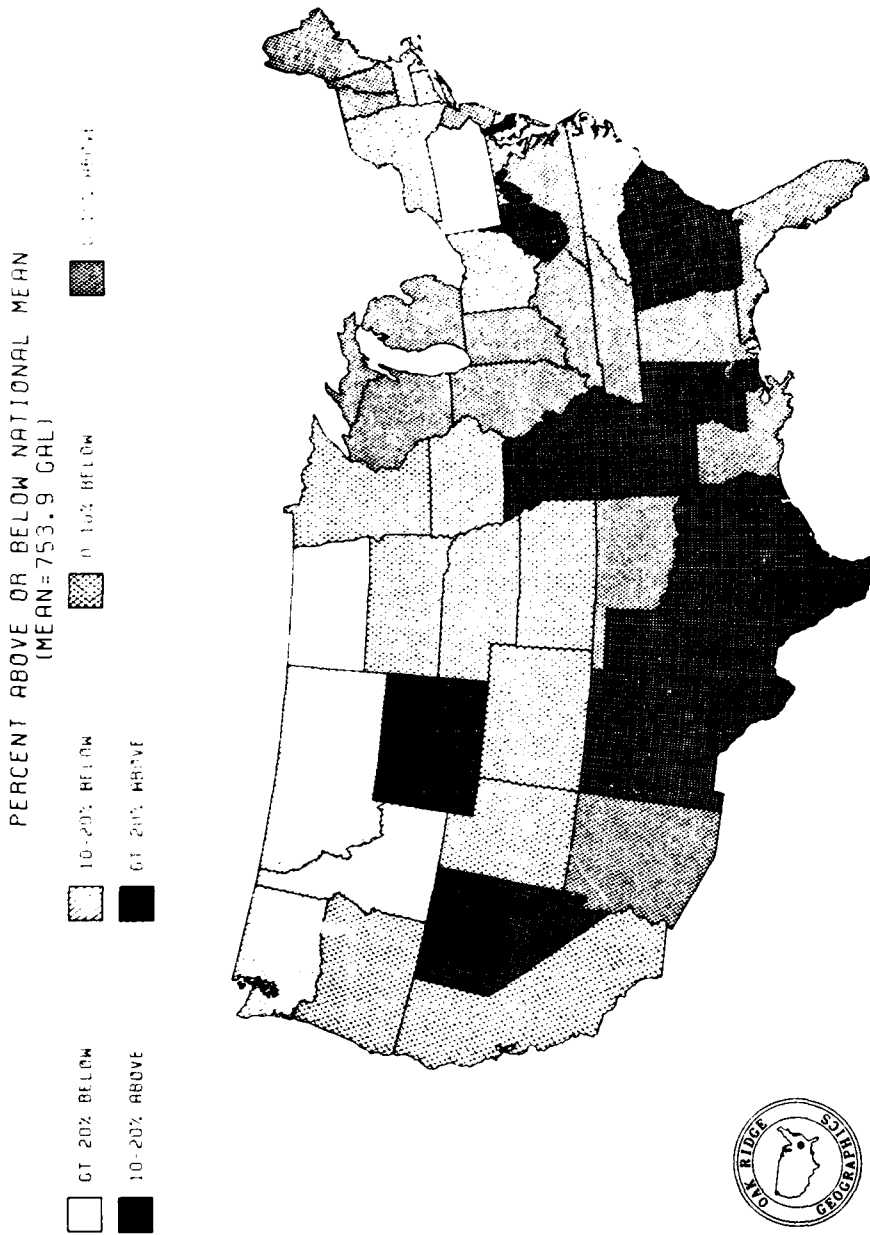


Fig. 1. 1975 gasoline consumption per vehicle. Source: An investigation of the variability of gasoline consumption among states. ORNL-5391. Oak Ridge National Laboratory, Oak Ridge, Tenn. Fig. 2, p. 7.

predicted by the national demand equation for the study period. The national demand equation contained an estimated price elasticity of -0.33 and an income elasticity of 0.31 , both within the range of existing estimates.

The results of the elasticity estimates of the national demand equation merely reinforce the findings of earlier studies. The ORNL study differs from earlier analyses in that it actually begins where the others ended. In the second phase of the analysis, the calculated average state deviations from predicted consumption levels were analyzed in an attempt to establish relationships between the deviations and individual state characteristics. The "state effects," as they are called, were regressed against a set of variables describing state spatial structure, physical geography, demographic factors, economic structure, and transportation infrastructure (Fig. 2). This analysis revealed that aggregate state gasoline use decreases with increasing population density, urbanization, agricultural employment, severity of winter weather, and small-car share of the vehicle fleet. Highway gasoline use increases as percentage of the population of working age and annual tourist expenditures per capita increase.

Although ORNL's study makes no policy recommendations, the findings clearly have implications for the regional effects of national transportation energy conservation policies. These findings imply that state consumption rates result from the complex interaction of environmental, economic, and demographic factors rather than from extravagant or frivolous gasoline consumption by the residents of certain states. Thus, one may expect policies such as fuel pricing or rationing to have differing impacts on the states largely due to factors beyond their immediate control.

The ORNL study has broken some new ground in the understanding of geographical patterns of energy use; however, the work leaves several questions unanswered. For example, a better understanding of the way business use of highway gasoline (and diesel fuel as well) varies geographically is clearly needed. Also, available data on state motor vehicle fleet compositions and fuel efficiencies were insufficient to test the importance of these factors in determining fuel use. Furthermore, additional investigation of alternative model specifications (such as allowing state-specific

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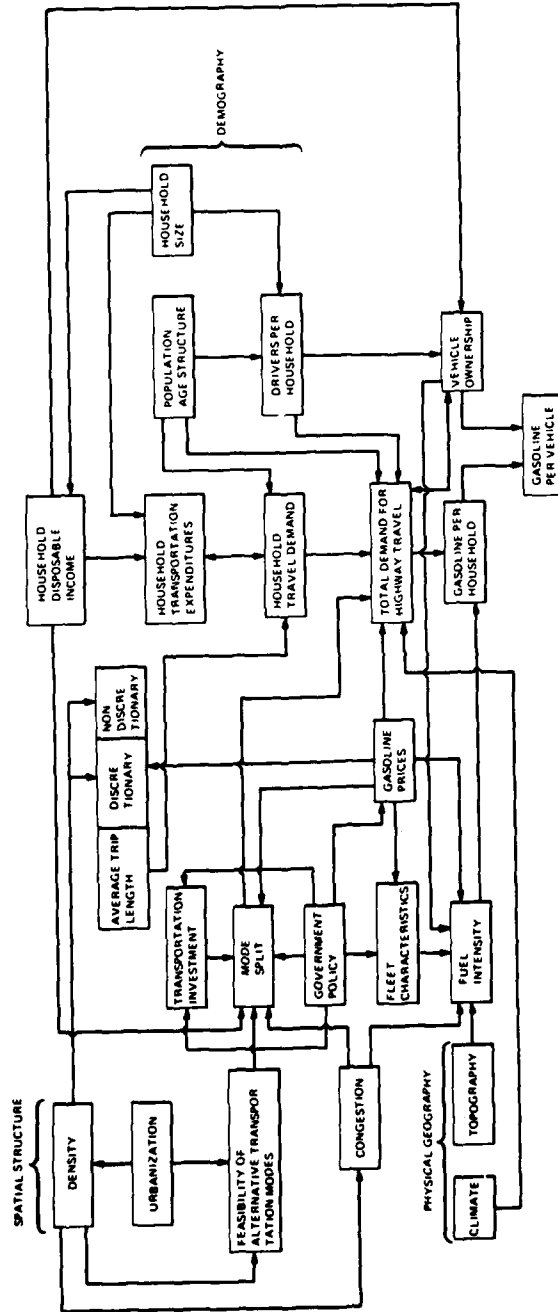


Fig. 2. Gasoline consumption per vehicle at the state level: a conceptual diagram. Source: An investigation of the variability of gasoline consumption among states. ORNL-5391. Oak Ridge National Laboratory, Oak Ridge, Tenn. Fig. 6, p. 20.

price and income elasticities) is needed if a predictive model capable of analyzing the regional impacts of transportation energy conservation policies is to be constructed.

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SRI'S REPORT ON DIESEL CARS IN THE UNITED STATES

The SRI report *Diesel Cars in the United States*,¹ published in August 1978, reviews existing data on the status of diesel autos in the United States and discusses prospects for energy savings through increased use of diesels. Experience with diesel cars in the United States is very recent and is limited primarily to luxury cars such as the Mercedes. Diesel sales totaled about 40,000 in 1977; the purchasers were predominantly highly affluent.

Manufacturers hope to devote a substantial fraction of production to diesel autos by 1985 in order to meet fleetwide fuel economy standards. There is, however, some doubt regarding diesels' capability of meeting legislated NO_x emission standards. Evidence shows that a shift to diesels could conserve fuel; however, the savings are not as great as one might expect after reading automobile advertisements. The diesel versions of many cars do get about 50% better mileage, but this estimate does not take into account the substantially reduced horsepower of the diesel; for gas and diesel engines of comparable power, the difference in mileage drops to 25%. Furthermore, because diesel fuel contains more energy per gallon, the report points out that if one also standardizes for fuel input energy, the difference in overall energy efficiency between gas and diesel engines is only about 11%. One compensating factor is that diesel fuel requires less energy to refine; the possible refinery savings are estimated at between 1% and 10%.

Major topics discussed in the SRI report include:

1. Status of diesel cars: descriptions of currently available models, their physical characteristics, prices as compared with comparable gasoline models, sales history, and manufacturers' plans for the future.
2. Geographical distribution: available data on sales by region for Mercedes and Peugeot (SRI cautions that demand for these autos exceeds supply, and sales patterns reflect corporate allocation procedures more than intrinsic demand; hence, regression analysis is not possible).
3. Fuel availability: data on number of diesel service stations by state and on diesel and gasoline prices by city.

4. Energy savings: comparison of fuel economy for diesel and gas autos; a refinery model is used to assess savings in refining energy produced by a decrease in the gasoline/diesel output ratio.
5. Auto emissions: brief presentation of current emissions standards, implications for diesel.
6. Opinions of owners: results of marketing surveys.

In general, the study is a concise presentation of existing information but it does not answer the crucial question, Will diesels find consumer acceptance?

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Reviewed by
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SRI'S REPORTS ON RAILROAD PASSENGER AND FREIGHT TRANSPORTATION

SRI has produced two companion studies, *Energy Study of Rail Passenger Transportation*¹ and *Energy Study of Railroad Freight Transportation*.² Each study consists of an executive summary volume and three analysis volumes. Overall, the two studies are very well done and represent a sound effort in dealing with a very broad but intricate problem.

Energy Study of Rail Passenger Transportation

Volume 1 of this study is the executive summary. Volume 2, *Description of Operating Systems*, is largely a technical discussion of existing rail passenger transportation facilities in the United States and of the measures used to describe these facilities. Definitions and descriptions of the modes to be considered are also provided. Because of difficulties in establishing baseline measures, either because of data availability or interpretation, the authors stated that the methods of assessing marginal, indirect, and joint impacts were sketchy in many places. The measures of system average intensity are British thermal units per passenger-mile and passenger-miles per gallon. The authors were thorough in developing measures of passenger service and estimates of energy use and energy intensity. The shortcomings of existing data were mentioned; however, the authors failed to identify what additional data should be collected.

Volume 2 contains a good, though brief, discussion of federal legislation that led to the National Rail Passenger Network (Amtrak). Wide variations in energy intensity across the system are noted; the estimates given lead to interesting conclusions about how to proceed with further development in terms of energy efficiency. The authors pointed out that given the same number of passenger-miles, older equipment is only about 10% less energy efficient than new equipment. However, if new equipment in the northeast rail corridor attracted significantly higher levels of patronage, substantial increases in efficiency would result.

For individual cities (regions) and existing heavy and light rail operations, facilities (track, stations, and equipment) as well as energy use are extensively analyzed. Cities included are Boston, Chicago, Cleveland, New York City and suburbs, Philadelphia, Pittsburgh, San Francisco,

and Washington, D.C. (preliminary). Fare schedules are also provided. In general, this volume is one of the better energy analyses of individual urban rail transit systems.

Volume 3, *Institutions*, briefly summarizes the institutions involved in rail passenger transportation. The somewhat superficial discussion covers the local, state, and federal agencies dealing with passenger services but does not deal with the interrelationships among those agencies. Also, from the perspective of this subject matter, energy, the study does not describe what role the respective agencies play in choosing modes in development situations.

Energy efficiency, improvements in energy efficiency, and the future of the industry are addressed in Volume 4, *Efficiency Improvements and Industry Future*. Energy demands are classified into direct, indirect, and capital energy demands. There is a good discussion of the technical methods of conserving energy, such as the use of single-end versus double-end controls on rail commuter vehicles. However, no estimates are made of how much could be saved either in specific cases or in more general situations.

Energy Study of Railroad Freight Transportation

Volume 1 of this study is an executive summary. Volume 2, *Industry Description*, contains a useful analysis and a good description for the novice in this field. Railroad operations such as train composition, switching and switching yards, and train control are detailed. Railroad costs are statistically analyzed. Using the Interstate Commerce Commission cost accounts and a model developed from the econometrics literature, the authors estimated that the long-run average cost tends to flatten after 500 miles of trackage; thus, efficient levels of operation are available to most Class I railroads. Costs are also estimated using the SRI model, which is labeled the "abstract railroad network." It divides rail operations into mainline rail, way train or branch delivery, switchyards and switching engines, and company costs. This approach tends to be mechanistic and therefore might overlook an item which an industry insider would consider essential to a particular operating plant.

Volume 2 outlines a potentially useful approach to low-density lines and to the abandonment of lines losing money (even on a short-run, marginal cost basis) but contributing to mainline traffic density. The authors stated, "It is possible that abandonment of low-density lines would create traffic losses for the remaining lines of such magnitude that average cost per ton-mile is not reduced or is increased."² They concluded that longer trains are more efficient than shorter trains, which raises the question of how much service should be provided with more frequent, shorter trains. This analysis does not balance the effects of rising energy costs with the economic need of the rail industry to compete with other transportation modes through increased service (i.e., shorter trains and more energy consumed). A useful discussion might have included how the industry's competitive position was worsened due to higher energy costs and the tendency to use longer trains.

Volume 3, *Regulation and Tariff*, is particularly well written. The summary of the regulatory history is concise yet deals more than adequately with the topic. The number of government agencies involved in the modern regulation of the railroads is sizable; these agencies include the Interstate Commerce Commission and state public regulatory agencies, as well as the Federal Railway Administration, the U.S. Environmental Protection Agency, and the Occupational Safety and Health Administration. The range of regulations (i.e., the activities covered) is extensive; this volume briefly summarizes the general categories.

An example of the type of analysis presented is an informative discussion of the tapering rail tariff, general revenue increases, and regulatory exceptions (holddowns) to the general increase. Most of the holddowns occur in the long-distance ranges for specific commodities tariffs, and thus, long-distance shipment becomes increasingly subsidized by other traffic and by the shorter-haul traffic of that specific commodity. This practice, of course, distorts an efficient allocation of resources and clouds the proper locational decision by users of these commodities. One result is that more energy is consumed in the shipment, and this amount is estimated using the long-run average cost model. Also discussed are the effects of regulatory policies on cost and energy consumption and the intricate details of handling empty freight cars, including the cost of moving empty cars and the energy cost of regulations requiring the return of empty cars after use.

Volume 4 is entitled *Efficiency Improvements and Industry Future*. This volume indicates that the marketability of new technology is low at best, which is probably a very accurate portrayal of the current situation. According to SRI, impedances to adoption of technological advances include a capital-poor industry, low growth prospects, stringent government regulations, and a labor force which is reluctant to learn new skills without wage increases. Efficiency improvements discussed include the use of lighter equipment by eliminating the caboose and turbine locomotives; operational changes, such as reduction of empty-car mileage and reduction of routing circuitry; and equipment efficiency developments, such as flywheels and alternative fuels. The potential of each of these improvements, which appear as a shopping list, is evaluated, and the evaluations generally appear to be accurate. Intermodal cooperation and modal shifts to rail from more energy-intensive forms of transportation will produce additional savings in fuel consumption. At the center of this argument, however, is the issue of railroad service. Service is notoriously poor on some lines, and, as a first step, it must be improved before any of these potential savings will be realized.

Volume 4 concludes with recommendations. New hardware technology is at the top of the list; however, the chances of widespread development and adoption seem so poor that funding in this area may not prove to be cost-effective. Improvement in operations and intermodal systems analysis seem to be more likely. The final recommendation is for a relaxation of some regulatory policies; the mood in Washington seems favorable, and additional research in this area may hasten the relaxation process.

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TECNET TRANSPORTATION ENERGY USE MODEL

TECNET is a comprehensive transportation forecasting model based on an interindustry input-output model of the economy. Designed to explore the consequences of policy options, TECNET accepts a wide range of transportation-related parameters as input and produces a detailed analysis of the energy consequences of those parameters, featuring breakdowns by mode and urban or rural area. This study uses the TECNET model to explore ten possible future energy scenarios.¹

The importance of TECNET lies in its explicit accounting of indirect energy use in transportation. For example, the model can be used to determine how much energy is consumed in building and maintaining vehicles and facilities and in refining and distributing fuels. The input-output module of TECNET (based on INFORUM) permits the tracing of each industry's ultimate energy contribution to each transportation mode. In 1977, total transportation energy use was 1.42 times greater than direct or operating energy use.

Most important transportation variables of TECNET — mode split, load factor, and vehicle-miles traveled (VMT) per gross national product (GNP) — are exogenously specified and independent. This characteristic may be viewed as a severe shortcoming by the proponents of simulation models but as refreshing humility by their critics. In any case, a heavy burden is placed on the TECNET user, who must make his own assumptions about how these variables interact and their future values. In the hands of a knowledgeable analyst, the ability to specify so many major parameters can be a major advantage; however, unreasonable results can be easily generated if the user is not very careful. For example, in analyzing a gas rationing scenario the assumption is made that there is a simple proportional relationship between passenger-miles traveled (PMT) and gasoline consumption (i.e., a 25% decrease in gasoline supply causes a 25% decrease in PMT because auto load factor is assumed to stay constant). Or, as another example, the simple use of the model produces a result in which PMT is dependent on GNP only and is independent of the price of travel.

The *base case* assumes fleetwide auto mileage of 27.5 mpg by 1985 with no further improvement and continued reliance on internal combustion

engines, increased bus and rail share, slight decreases in energy intensity for all modes, and continuing urbanization. The result is that total energy use (direct and indirect) grows slowly at first, 1.4% annually, as small cars increase their share of the market. After 1985, however, a constant miles-per-gallon value is assumed through the year 2000, giving a 2.2% annual growth of all transportation energy.

The *high-conservation scenario* differs from the base case in two important respects: (1) industrial adherence to the National Energy Plan, including increased conservation measures and a shift to coal and (2) domination of the auto fleet by nonconventional engines - Brayton, Stirling, and electric. The result is 25% less energy use than in the base case by the year 2000. To isolate the contribution of the alternative engines, an *internal combustion engine (ICE) case* was run. The ICE scenario is identical to the high-conservation scenario except for its assumption of a 100% ICE auto fleet. This substitution results in 26% higher direct-energy consumption by automobiles than in the high-conservation case, but overall energy use increases by only 3%.

In a further exploration of the merits of non-ICE engines, separate scenarios were run for the *Stirling* and *Brayton* engines. These scenarios share economic and industrial assumptions with the base case, but they assume 100% market penetration of the respective engine types by 2000. Comparison of the two scenarios illustrates TECNET's strong points. Both engines conserve operating energy, but lower weight and smaller reliance on aluminum by the Brayton give it an advantage in indirect energy. In addition, the Brayton scenario indicates substantially less pollution.

A number of sensitivity analyses, all variations of the base case, can be performed. The *constant modal share* holds modal shares constant but reflects continuing urbanization. The *constant urban share* holds the urban proportion of the population constant and varies modal share.

The *shift scenario* is of particular interest because it illustrates the importance of considering indirect energy use. This scenario postulates a 10% decline in urban auto share (to the benefit of rail and bus transit) and 10% declines in auto and air shares of nonurban traffic; these shifts are to occur in the first quarter of the next century. The result is an energy bill higher than in the more auto-oriented base case

because indirect energy requirements per passenger-mile are one-third less for auto than for rail or air. This analysis is somewhat marred by a failure to distinguish between local rural travel and intercity travel; therefore, the model has increased urbanization resulting in decreased air PMT.

The *rationing scenario* explores the implications of a 25% reduction in gasoline sales to consumers during 1978. Not surprisingly, the economy registers a shift in expenditures from travel to luxuries. Even more surprising is the result, or assumption, that bus, rail, and air PMT will not increase and the counterfactual result that auto PMT falls by 25%.

Finally, the *constant scenario*, or "if this goes on" scenario, leaves modal shares and energy intensity values unchanged from current levels. Energy consumption in 2000 is 32% higher than in the base case.

These results must be interpreted with caution. TECNET is grandiose in scope. The values of most of the principal variables are not accurately ascertainable today, much less 25 or 50 years in the future. The lack of interaction among these variables is a serious flaw, and there is little explicit treatment of supply-and-demand forces. Nevertheless, TECNET appears to be a potentially useful tool for exploring policy options, especially in the short term.

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TRW'S STUDY OF INCREASED DIESEL CAR PRODUCTION

In view of the significant increase in diesel car production in the last two years, TRW has carried out a study¹ for the Office of Policy and Evaluation, U.S. Department of Energy, to examine the following three assumed levels of penetration of diesel cars into the new-car market:

1. Continued negligible penetration
2. Progressive penetration to 65% of new-car sales in 1995, at different growth rates:
 - a. Linear at 3% increase per year
 - b. Exponentially starting from 0.1% of new-car sales in 1977
3. Rapid penetration to 100% of new cars in 1982

Under each set of assumptions, the study estimates the increase in demand for diesel fuel (for automobiles), the resulting implications for refinery operations, and the potential petroleum savings.

As part of the TRW report, existing studies were reviewed. A useful index for measuring the change in the motor fuel mix is the gasoline-to-distillate ratio (G/D) whose current value is approximately 1.6. The findings of several relevant studies are summarized below in terms of this index.

1. Refinery operations
 - a. Exxon study: A new refinery in 1990-2000 could achieve as much diesel as gasoline output (G/D = 1.0).
 - b. Amoco and Mobil studies: The limit to refinery flexibility would be reached at G/D ratios of 0.6 to 0.7. A larger proportion of diesel (i.e., a lower ratio), if economical, would involve shifts in other product demands or new refining technology.
2. Diesel penetration
 - a. Amoco and Mobil studies: If the increased distillate production is all used in diesel cars, a G/D ratio of 0.7 amounts to total motor fuel production consisting of 30% diesel, which is sufficient to sustain 40% of the total U.S. automobile fleet. A reasonable time frame is considered to be 1985 or beyond.
 - b. Banner and Moore Associates study: Approximately 60% of the new-car fleet and 50% of the total car fleet in 1995 can be diesels,

with total motor fuel production including approximately 60% diesel fuels.

3. Petroleum savings

- a. Mobil and Banner and Moore Associates studies: A maximum petroleum savings of 5% would be achieved when diesel comprises 40% of the total motor fuel output.

Starting from these findings and building on an extensive in-house analysis of baseline transportation demand, the TRW study concludes that, in the near term, sufficient diesel output from refineries is feasible to meet demands even if the number of diesel cars increases rapidly:

1. High rate of penetration of diesels (all new cars in 1982 and beyond being diesels) would require major changes in refining operations by 1983-84, necessitating major planning by 1979 or 1980.
2. Intermediate penetration (3% linear increase in 1976 to 65% of new-car sales in 1995) would necessitate the attainment of a G/D ratio of 0.7 in 1985 and 0.6 in 1988.
3. Intermediate penetration starting at a low rate (0.1% exponential growth to 65% of new-car sales in 1995) would delay the need for a G/D ratio of 0.7 to 1995, and the limit of 0.6 would not be needed until 2000.

Thus, it appears that in all cases sufficient lead time would be available for refineries to accommodate the demand shifts resulting from significant increases in diesel car sales.

In contrast to these hypothesized situations, U.S. automobile manufacturers were found to anticipate a very slow growth of the diesel car population, with imported diesels expected to comprise less than 5% of the total import fleet by 1985. A potential barrier to rapid penetration of diesel cars is emission control. These control measures include the NO_x standard of 0.4 gpm, if enforced (diesels meet the current NO_x standard of 2.0 gpm), and particulate standards which would probably be introduced if the diesel car population were increased substantially.

The resulting petroleum savings from increased reliance on diesel cars would be small at first, with long-run savings dependent on the overall fuel economy of new diesels compared with conventional cars on the

road now. The study does not analyze projections of diesel fuel economy except to point out that increased fuel economy over the present level would serve to counteract any barriers to high diesel penetration.

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THE WHARTON EFA AUTOMOBILE DEMAND MODEL

The Wharton EFA Automobile Demand Model¹ is probably the most sophisticated model for forecasting long-run automobile demand currently in operation. The model, completed in 1977 for the Department of Transportation, Transportation Systems Center, is distinguished by its attention to detail in its extensive data base and its competent and sometimes innovative econometrics. The authors described their model as providing "long-run policy analysis and forecasting of annual trends for U.S. auto stock, new sales, and their composition by size class."¹ The basic model structure is that of lagged adjustment to "desired" levels of vehicle stock and composition which change in response to changing income, relative prices, and other factors.

With regard to their extensive data base, the authors stated, "It is our belief that the scope and magnitude of this data base is such that its potential usefulness rivals that of the model itself. For instance, we compiled 57 items of information for 2234 domestic cars (1947 to 1974) and 20 items for 982 foreign (1948 to 1975). In addition to this model specific data we compiled aggregate data on new registration and cars in operation, by state for 1969 through 1972, and for the United States for 1948 to 1974."¹ The potential of this extensive resource of automobile data is yet to be tapped by other researchers.

One unique data item constructed by Wharton for this model is a measure of total vehicle operating cost per mile. This measure includes the total stream of costs incurred over the vehicle's lifetime (both of purchase and operation) discounted to present value. This value is, in fact, the total cost of the vehicle to all its owners. Although it is debatable whether consumers actually take all these factors into account in purchase decisions, the variable was found to be a critical one in determining both desired stock and its desired composition by size class in the Wharton equations. The cost per mile includes transportation charges and taxes and new car prices including options, as well as expenditures on fuel, maintenance, and repairs. Unfortunately, it also requires critical assumptions about future miles traveled and discount rates.

The basic structure of the Wharton model is illustrated in Fig. 1. At its heart are modules which predict the total demand for automobile stock and the composition of new car sales by size class. The demand for

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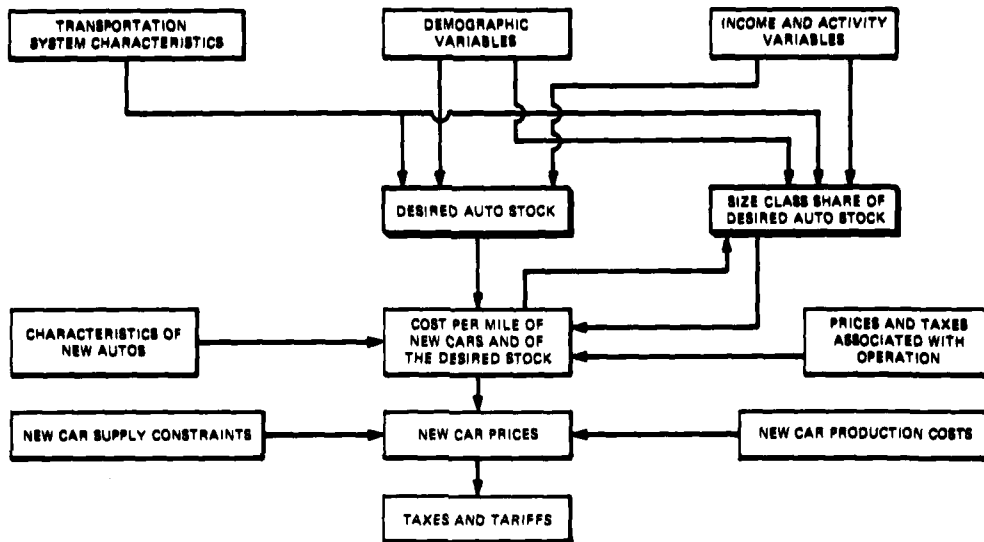


Fig. 1. Basic structure of the Wharton model. Long-run outputs are in boldfaced boxes. Source: Adapted from G. R. Schink and C. J. Loxley. 1977. An analysis of the automobile market: Modeling the long-run determinants of the demand for automobiles, Vol. I. Wharton EFA, Inc., Philadelphia. Chart 3B, p. 3-52.

stock model is an updated version of the familiar stock adjustment model introduced in the 1950s by Chow² and Nerlove.³ The key innovation in the Wharton model is the adaptation of the stock adjustment approach to the modelling of new car sales by size class. First, an equation was developed to forecast the "desired" size class composition of the vehicle fleet as a function of household size, income, the relative capitalized operating costs of the vehicles, public transit use, population age structure, metropolitan population, and regional dummy variables. Unlike typical stock adjustment models in which the "desired" demand equation is never

directly estimated, the authors chose to directly estimate a shares equation by making the heroic assumption that the size class composition of sales from 1972 to 1973 across states represented a long-run equilibrium size class distribution for the entire fleet. This is indeed a heroic assumption because it essentially requires that the existing size class shares in each state match the size class shares of new car sales. This assumption was not tested due to unavailability of data, but it is crucial to the correct application of the stock share adjustment approach. The Wharton model is the first of the several market shares demand models in existence to recognize that the existing distribution of motor vehicles can be adjusted only gradually to conform to changing consumer desires. The actual sales of vehicles by size class are expressed as a function of the gap between the desired and actual shares. This innovation is important because it is probably far easier to adjust the number of vehicles in the fleet than to adjust its composition over a short time.

Another distinctive aspect of the Wharton model is the way in which it estimates fuel efficiencies for vehicle classes. Rather than simply using a sales-weighted average calculated from data for a given year or years and then assumed to hold constant over time, the Wharton model estimates class-miles per gallon as a function of class-average inertial weight, engine displacement, transmission type, and fraction of the class with four or six cylinders. This approach allows the model to forecast future class-average miles per gallon, taking account of future changes in vehicle characteristics. These changes must be specified on the basis of the modeler's judgement. The model cannot directly consider the impact of new technologies. A tricky question which is not addressed is the stability of class market share relationships in the future as class characteristics change.

The Wharton model also contains equations for estimating annual vehicle-miles traveled (VMT) per family unit as a function of the age distribution of the vehicle stock (similar to the Sweeney model⁴), real gasoline cost per mile, real income, and the percentage of family units earning more than \$15,000 per year. The role of this VMT-estimating equation in the model is to predict total travel as an input to the demand for stock and scrappage. In conjunction with assumptions about the relative utilization of cars across size classes, however, the VMT estimate could

conceivably be combined with mileage estimates to forecast the demand for gasoline. This prediction was not made, and one senses it is largely because of dissatisfaction with the quality of the VMT data and the lack of data on VMT by car class. Finally, the model also contains subsidiary equations for analyzing the used car market in terms of total transactions and prices by class and vintage.

Though the Wharton model makes numerous assumptions, some of which are debatable, its complex specification and estimation, the breadth and depth of factors it considers, and the extensiveness of its data base cannot be matched by competing models. The Wharton model is the Cadillac of automobile-demand forecasting models.

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 AVAILABILITY: NTIS

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 KEYWORDS: HIGHWAY TRANSPORTATION; TRANSPORTATION SYSTEMS; ELECTRIC VEHICLES; ENERGY STORAGE; DUAL MODE ELECTRIC TRANSPORTATION SYSTEM; TABLES (DATA); DESIGN; MAGNETIC FIELDS; GRAPHS (CHARTS); CALIFORNIA; COSTS; ALTERNATE FUELS; COMPARATIVE EVALUATIONS; SAFETY
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 1978, February

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: LEAD-ACID BATTERIES; SIMULATION; ELECTRIC VEHICLES; VELOCITY; CONTROL; ELECTRIC DISCHARGES; CAPACITY; DESIGN; ENERGY LOSSES
 AVAILABILITY: NTIS

Cook, J.A.; Fucinari, C.A.; Lingscheit, J.W.; Rahnke, C.J.

Ford Motor Co.
 ADDRESS: Dearborn, MI
 TITLE: Automotive Gas Turbine Ceramic Regenerator Design and Reliability Program. Final Annual Report for Period July 1, 1975 to September 30, 1976

Report No. COO-2630-18, 299 p.
 1976, October

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
 KEYWORDS: STIRLING ENGINES; HEAT EXCHANGERS; COSTS; PERFORMANCE; REGENERATORS; GAS TURBINE ENGINES; DIAGRAMS; GRAPHS (CHARTS); TABLES (DATA); STRESS ANALYSIS; THERMODYNAMICS
 AVAILABILITY: NTIS

Cyrus, J.D.
 Sandia Laboratories
 ADDRESS: Albuquerque, NM 87115; Livermore, CA 94550

TITLE: Proceedings of the Hybrid Vehicle Interest and Capability Assessment Workshop

Report No. SAND 76-0645, conference held September 22-23, 1976, Albuquerque, New Mexico, 40 p.

1977, March
 SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
 KEYWORDS: HYBRID ELECTRIC-POWERED VEHICLES; CONFERENCES; HEAT ENGINES; SYSTEMS ANALYSIS; STORAGE; AUTOMOTIVE CONTROL SYSTEMS
 AVAILABILITY: NTIS

Davis, D.D.; Renner, R.A.; Younger, F.C.; Epps, R.C.; Lerner, S.S.
 Lawrence Livermore Laboratory
 ADDRESS: University of California, P.O. Box 808, Livermore, CA 94550
 TITLE: Determination of the Effectiveness and Feasibility of Regenerative Braking Systems on Electric and Other Automobiles. Volume I - Summary

Report No. UCRL-52306/1, 74 p.
 1977, September 9

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
 KEYWORDS: ELECTRIC VEHICLES; HYBRID ELECTRIC-POWERED VEHICLES; REGENERATIVE BRAKING; HISTORY; RECOVERY; UTILIZATION; FLYWHEELS; POWER TRAIN SYSTEMS; DIAGRAMS; BATTERIES; TABLES (DATA); GRAPHS (CHARTS); COSTS; FEASIBILITY
 AVAILABILITY: NTIS

Davis, D.D.; Renner, R.A.; Younger, F.C.; Epps, R.C.; Lerner, S.S.
 Lawrence Livermore Laboratory
 ADDRESS: University of California, Livermore, CA 94550

TITLE: Determination of the Effectiveness and Feasibility of Regenerative Braking Systems on Electric and Other Automobiles. Volume II: Design Study and Analysis

Report No. UCRL-52306/2, v.p.
 1977, September 9

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
 KEYWORDS: AUTOMOBILES; ENERGY STORAGE; TECHNOLOGY; ELECTRIC VEHICLES; REGENERATIVE BRAKING; HISTORY; DEVELOPMENT; TESTING; TRANSPORTATION; COST ANALYSIS; TABLES (DATA); PATENTS; HYBRID ELECTRIC-POWERED VEHICLES; ENERGY CONSERVATION; BATTERIES
 AVAILABILITY: NTIS

Doggett, F.W.; Meyer, R.; Heller, M.
 International Research and Technology Corp.
 ADDRESS: 7655 Old Springhouse Rd.; McLean, VA 22101

TITLE: Ten Scenarios of Transportation Energy Conservation Using TECHNET

Report No. INT-17200/2-R, 107 p.
 1978, June

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation, Data Analysis Branch
 KEYWORDS: FORECASTING; MODELS; TRANSPORTATION; GASOLINE; RATIONING; ENERGY CONSERVATION; AUTOMOTIVE ENGINES; BRAYTON CYCLE; STIRLING ENGINES; INTERNAL COMBUSTION ENGINES; ECONOMIC IMPACT; ENERGY INTENSITY; MARKET; ENERGY CONSUMPTION; AUTOMOBILES; GROWTH; VEHICLE MILES TRAVELED; GROSS NATIONAL PRODUCT; MILEAGE; TABLES (DATA)

Donnelly, J.J., Jr.; Poessler, W.U.
 Aerospace Corp., Environment and Energy Conservation Division, Mobile Systems Group, Office of Energy Conservation
 TITLE: Fuel Consumption and Engine Horsepower Projections for the Highway Transportation Sector

79 p.

1978, April 28

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation, Office of Highway Systems, Heat Engine Systems Branch
 KEYWORDS: FUEL CONSUMPTION; HIGHWAY TRANSPORTATION; AUTOMOBILES; TRUCKS; BUSES (VEHICLES); MOTORCYCLES; MILEAGE; ENGINES; SALES; FORECASTING; WEIGHT; CLASSIFICATIONS; TABLES (DATA); SIZE; FUEL ECONOMY

Dustin, H.O.; Denington, R.J.
 National Aeronautics and Space Administration, Lewis Research Center
 ADDRESS: Cleveland, OH 44135
 TITLE: Test and Evaluation of 23 Electric Vehicles for State-of-the-Art Assessment

Report No. COMS/1011-21, NASA TN-73850, paper presented at the 1978 SAE Congress, Detroit, Michigan, February 27 - March 3, 1978, 24 p.
 1978

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: ELECTRIC VEHICLES; TESTING; HYBRID ELECTRIC-POWERED VEHICLES; REGENERATIVE BRAKING; ENERGY CONSUMPTION; TABLES (DATA); GRAPHS (CHARTS); FUEL CONSUMPTION; PERFORMANCE

Exxon Research and Engineering Co., Government Research Laboratories, Science Application Inc., Combustion and Propulsion Technology Division
 ADDRESS: EP&E, P.O. Box 8, Linden, NJ 07036;

SAI, 20335 Ventura Boulevard, Suite 423, Woodland Hills, CA 91368
 TITLE: Fundamental Characterization of Alternate Fuel Effects in Continuous Combustion Systems

Report No. TID-28463, Technical Progress Report No. 1, v.p.
 1978, January 11

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: ALTERNATE FUELS; COMBUSTION; CHEMICAL PROPERTIES; MODELS; COMBUSTION PROPERTIES; MODPLS; GAS TURBINE ENGINES; HYDROGEN; NITROGEN; THERMODYNAMIC PROPERTIES; TURBULENT FLOW; DROPLETS; SPRAYS; DECOMPOSITION; OXIDATION; GRAPHS (CHARTS)
 AVAILABILITY: NTIS

Foster, R.W.
 Miami, University of, Ryder Program in Transportation; Escher Technology Associates
 ADDRESS: UM, Coral Gables, FL 33128; ETA, St John's, MI
 TITLE: Alternative Fuels and Intercity Trucking

Report No. HCP/H3294-01, 302 p.
 1978, June

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: ALTERNATE FUELS; TRUCKS; INTERCITY TRANSPORTATION; TECHNOLOGY ASSESSMENT; ENERGY CONSERVATION; DIESEL ENGINES; TRACTORS; INTERNAL COMBUSTION ENGINES; FUEL CONSUMPTION; HIGHWAY TRANSPORTATION; OWNERSHIP; EMPTY BACKHAUL; ENERGY RESOURCES; COMMERCIALIZATION; DESIGN; DEMONSTRATION; TABLES (DATA); DIAGRAMS
 AVAILABILITY: NTIS

Foster, R.W.; Escher, W.J.D.
 Escher Technology Associates
 ADDRESS: St. Johns, MI
 TITLE: Hydrogen-Fueled Railroad Motive Power Systems, A Feasibility Study

Report No. COMS/4707-1, ETA-PR-70, 250
 1976, September

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
 KEYWORDS: HYDROGEN FUELS; RAIL TRANSPORTATION; ALTERNATE FUELS; FEASIBILITY; LOCOMOTIVES; DIESEL ENGINES; INTERNAL COMBUSTION ENGINES; MODIFICATIONS; PERFORMANCE; PHOTOGRAPHS; TABLES (DATA); GRAPHS (CHARTS)
 AVAILABILITY: NTIS

Goan, P.L.; Ivary, H.E.
 SRI International, Center for Resource and Environmental Systems, Chemicals and Resources Group
 ADDRESS: Menlo Park, CA 94025
 TITLE: Diesel Cars in the United States

72 p.

1978, August

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: MOTOR VEHICLES; DIESEL ENGINES; TRUCKS; AUTOMOTIVE EMISSIONS; STANDARDS; DIESEL FUELS; MARKETING; FUEL ECONOMY; COSTS; MANUFACTURERS; TECHNOLOGY; GASOLINE; SURVEYS; CONSUMERS; TABLES (DATA); ELECTRIC VEHICLES; PRODUCTION; SALES; AUTOMOBILES

Greene, D. L.; O'Connor, T. P.
Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: An Investigation of the Variability of
Gasoline Consumption Among States

Report No. ORNL-5391, 61 p.
1978, April

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Data
Analysis Branch

KEYWORDS: DETERMINANTS; GASOLINE; FUEL
CONSUMPTION; MODELS; STATE ANALYSIS;
SOCIO-ECONOMIC FACTORS; AGE GROUPS;
EXPLORATION; TOURISM; VEHICLE MILES TRAVELED;
VEHICLE REGISTRATIONS; AUTOMOBILES;
OWNERSHIP; AUTOMOBILE DRIVERS; ENERGY DEMAND;
COMPARATIVE EVALUATIONS
AVAILABILITY: NTIS

Greene, D. L.; O'Connor, T. P.; Patterson, P. D.;
Rose, A. B.; Shonka, D. B.
Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: Regional Transportation Energy
Conservation Data Book. Edition 1

Report No. ORNL-5435 Special, 530 p.
1978, September

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: REGIONAL ANALYSIS; ENERGY CONSERVATION;
HIGHWAY TRANSPORTATION; FUEL CONSUMPTION; AIR
TRANSPORTATION; RAIL TRANSPORTATION; MARINE
TRANSPORTATION; PIPELINE TRANSPORTATION;
POPULATION (STATISTICS); ENERGY SUPPLIES;
STATE ANALYSIS; TABLES (DATA); INTERNATIONAL
ANALYSIS; VEHICLE MILES TRAVELED; MAPS;
GRAPHS (CHARTS); TRANSPORTATION MODE CHOICE;
TRAVEL; GASOLINE; AUTOMOBILES; TRUCKS; BUSES
(VEHICLES); DIESEL FUELS; NATURAL GAS;
TONNAGE; BOATS; CARGO TRANSPORTATION;
FORECASTING; IMPORTS; PETROLEUM; COMPARATIVE
EVALUATIONS
AVAILABILITY: NTIS

Gulf Research and Development Co.
ADDRESS: Pittsburgh, PA
TITLE: Passenger Car Fuel Economy in Short Trip
Operation: Alternative Fuels Utilization
Program

Report No. NCF/V4248, v. p.
1978, July

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: VEHICLE TRIPS; DISTANCE; AUTOMOBILES;
FUEL ECONOMY; GASOLINE; FUEL ADDITIVES;
TESTING; DRIVING CYCLE; DYNAMOMETERS; OCTANE;
SEASONAL VARIATIONS; AUTOMOTIVE EMISSIONS
AVAILABILITY: GPO, Stock No. 061-000-00112-3

Hamilton, W.
General Research Corp.
ADDRESS: Santa Barbara, CA 93105
TITLE: Electric Car Technology for Demonstration
and Development

Paper presented at the Fourth National Conference
on the "Effects of Energy Constraints on
Transportation Systems," held at Union
College, Schenectady, New York, on August
1-5, 1977, 26 p.

1977
SPONSOR: Energy Research and Development
Administration, Division of Transportation

Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; TECHNOLOGY;
DEMONSTRATION; DEVELOPMENT; NICKEL-ZINC
BATTERIES; BATTERIES; LITHIUM-ALUMINUM/METAL
SULFIDE BATTERIES; LEAD-ACID BATTERIES;
PERFORMANCE; GRAPHS (CHARTS); ENERGY
CONSUMPTION

Hamilton, W.
General Research Corp.
ADDRESS: Santa Barbara, CA 93105
TITLE: Urban Applications and Energy Impacts of
Future Electric Cars

Paper presented at the Fourth National Conference
on the "Effects of Energy Constraints on
Transportation Systems," held at Union
College, Schenectady, New York, on August
1-5, 1977, 22 p.

1977
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: URBAN TRANSPORTATION; FORECASTING;
ELECTRIC VEHICLES; AIR POLLUTION; NOISE
POLLUTION; ENERGY CONSUMPTION; PETROLEUM;
LIFE-CYCLE COST; LOS ANGELES; PHILADELPHIA;
SAINT LOUIS (MISSOURI)

Hekt, R. H.; Chang, H.; Hess, N.; Carrubba, R.
Engelhard Industries, a Division of Engelhard
Minerals & Chemicals Corp.
ADDRESS: Menlo Park, Edison, NJ 08617
TITLE: Durability Testing at One Atmosphere of
Advanced Catalysts and Catalyst Supports for
Automotive Gas Turbine Engine Combustors.
Part 1

Final Report, Report No. CONS/9446-1, NASA
CR-135132, 223 p.

1977, June
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: TESTING; CATALYSTS; AUTOMOBILES; GAS
TURBINE ENGINES; COMBUSTORS; PERFORMANCE;
EMISSIONS; PROPANE; DIESEL FUELS; AUTOMOTIVE
EMISSIONS; LIFE (DURABILITY); TABLES (DATA);
GRAPHS (CHARTS)
AVAILABILITY: NTIS

Hill, S. H.
Teledyne Continental Motors, General Products
Division
ADDRESS: 76 Getty Street, Muskegon, MI 49442
TITLE: Automotive Diesel Technology Program:
Final Report, Period June 1975-April 1977

Report No. SAN/1099-1, 122 p.
1977, August
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: AUTOMOBILES; DIESEL ENGINES;
TECHNOLOGY; RESEARCH PROGRAMS; FUEL ECONOMY;
DESIGN; AUTOMOTIVE EMISSIONS; SIMULATION;
EXHAUST RECIRCULATION SYSTEMS
AVAILABILITY: GPO

Hittman Associates Inc.
ADDRESS: Columbia, MD 21045
TITLE: Evaluation Methodology for Near Term
Devices and Strategies to Reduce Highway
Vehicle Use. Volume I: Technical Report.
Volume II: Appendices

Report No. RIT-695, v.p.
1977, August
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: HIGHWAY TRANSPORTATION; ENERGY
CONSERVATION; EFFICIENCY; FUEL ECONOMY;
FEASIBILITY; RETROFITTING; COMPARATIVE
EVALUATIONS; TRUCKS; AUTOMOBILES; MARKET;
PASSENGER TRANSPORTATION; CARGO
TRANSPORTATION; BUSES (VEHICLES); MODELS;
MOBILITY; ENVIRONMENTAL IMPACT; ECONOMICS;
GRAPHS (CHARTS); EQUIPMENT; GOVERNMENT
POLICIES; RETROFIT DEVICES

Ioward, E.B.; Barber, B.V.; Jordan, A.C.;
Seaborn, C.C.
Oak Ridge National Laboratory, Information
Division, Information Center Complex, Energy
Information Center
ADDRESS: Oak Ridge, TN 37830
TITLE: Transportation Energy Conservation Data
Book: A Selected, Annotated Bibliography.
Edition 2

Report No. ORNL/EIS-114 (Part II of ORNL-5320),
272 p.

1977, October
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: BIBLIOGRAPHIES; TRANSPORTATION; ENERGY
CONSERVATION; AIR TRANSPORTATION; ALTERNATE
FUELS; AUTOMOBILES; BUSES (VEHICLES); CARGO
TRANSPORTATION; PETROLEUM; DEMAND
(ECONOMICS); DIESEL ENGINES; ECONOMICS;
EFFICIENCY; ELECTRIC VEHICLES; ENERGY
CONSUMPTION; ENVIRONMENTAL IMPACT;
FORECASTING; FUEL CONSUMPTION; FUEL ECONOMY;
FUELS; GASOLINE; GOVERNMENT POLICIES;
LEGISLATION; MASS TRANSPORTATION; RAIL
TRANSPORTATION; STATISTICS; TRUCKS; URBAN
TRANSPORTATION; HIGHWAY TRANSPORTATION;
VEHICLES; WATER TRANSPORTATION; ABSTRACTS
AVAILABILITY: NTIS

Jelavich, H.S.
Faucett (Jack) Associates Inc.
ADDRESS: 5250 Wisconsin Avenue, Suite 1150, Chevy
Chase, MD 20015
TITLE: A Study of the Determinants of Freight
Modal Choice

Conference paper presented at Transportation
Research Board Meeting Session Number 143,
January 19, 1978, 21 p.

1978
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: CARGO TRANSPORTATION; DECISIONS;
WEIGHT; INPUT-OUTPUT ANALYSIS; COMMODITIES;
FORECASTING; MODELS; RATES (COSTS); DISTANCE;
DETERMINANTS

Keller, J.L.; Nakaguchi, G.H.; Ware, J.C.
Union Oil Co. of California, Research Dept.
ADDRESS: Brea, CA
TITLE: Methanol Fuel Modification for Highway
Vehicle Use. Final Report

Report No. HCP/W3683-18, v.p.
1978, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: METHANOL; ALTERNATE FUELS; ALCOHOL
FUELS; ENGINES; MODIFICATIONS; GASOLINE;
PROPERTIES; VEHICLES; UTILIZATION;
PERFORMANCE; ENVIRONMENTAL IMPACT;

TRANSPORTATION; WATER; TESTING; TABLES
(DATA); TOXICITY; SAFETY
AVAILABILITY: NTIS

Kirk, F.S.; Barber, K.F.
Mueller Associates Inc.
TITLE: A Pictorial Characterization of Worldwide
Electric and Hybrid Vehicles

Report No. COMS-770373, presented during the
March 1, 1977, conference on EPA's Electric
and Hybrid Vehicle Demonstration Project, 264
p.

1977, August 16
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: PHOTOGRAPHS; ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; GERMAN FEDERAL
REPUBLIC; ISRAEL; NETHERLANDS; SWEDEN; UNITED
KINGDOM; FRANCE; ITALY; JAPAN; USA;
MANUFACTURERS; MARKET; RESEARCH; DESIGN;
INTERNATIONAL ANALYSIS
AVAILABILITY: GPO, Stock No. 060-000-00083-2

Leising, C.J.; Purohit, G.P.; DeGrey, S.P.;
Finogold, J.G.
National Aeronautics and Space Administration,
Jet Propulsion Laboratory
ADDRESS: California Institute of Technology,
Pasadena, CA
TITLE: Utilization of Waste Heat in Trucks for
Increased Fuel Economy. Final Report

Report No. HCP/W1011-02, 30 p.
1978, June

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: WASTE HEAT; FUEL ECONOMY; UTILIZATION;
TRUCKS; DIESEL ENGINES; SPARK IGNITION
ENGINES; GAS TURBINE ENGINES; STIRLING
ENGINES; RANKINE CYCLE ENGINES; REGENERATION;
DRIVING CYCLE; ADIABATIC PROCESSES;
RECUPERATION; TURBOCHARGING;
TURBOCOMPOUNDING; GRAPHS (CHARTS); TABLES
(DATA); DIAGRAMS
AVAILABILITY: GPO, Stock No. 061-000-00111-5

Lindsey-Kaufman Co
ADDRESS: 53 Hamilton Place, Tenafly, NJ 07670
TITLE: Projection of Light Truck Population to
Year 2025

Report No. ORNL/Sub-78/14285/1, Special, 64 p.
1978, October
SPONSOR: Oak Ridge National Laboratory, Energy
Division, Regional and Urban Studies Section;
U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: TRUCKS; INVENTORIES; FORECASTING;
OWNERSHIP; GROWTH; HIGHWAY TRANSPORTATION;
UTILIZATION; VEHICLE REGISTRATIONS;
SOCIO-ECONOMIC FACTORS; VANS
AVAILABILITY: NTIS

LNC Corp.
ADDRESS: 476 Dunn Circle, Sparks, NV 89431
TITLE: Evaluation of Selected Drive Components
for a Flywheel Powered Converter Vehicle.
Final Report. Phase I

Report No. SAN/1164-1, LNC-770401-B, v.p.
1977, June 30
SPONSOR: Energy Research and Development

Administration, San Francisco Operations
Office; U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: FLYWHEELS; ENERGY STORAGE; DIAGRAMS;
GRAPHS (CHARTS); ELECTRIC VEHICLES; TESTING;
MODELS; MOTORS; BEARINGS; SHAFTS; SEALS
AVAILABILITY: NTIS

Marcus, A.
Mechanical Technology Inc.
ADDRESS: 969 Albany-Shaker Road, Latham, NY
TITLE: An Advanced Electric Motor Transmission
for Electric Vehicles: Development Plan.
Technical Report

Report No. COO/2835-3, v.p.
1977, November
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: TECHNOLOGY ASSESSMENT; EFFICIENCY;
DESIGN; FABRICATION; ELECTRIC VEHICLES;
MODELS; TABLES (DATA); TRANSPORTATION; GRAPHS
(CHARTS); TESTING
AVAILABILITY: NTIS

Marcus, A.; Pinkus, O.
Mechanical Technology Inc.
ADDRESS: Latham, NY
TITLE: Characterization Study of an Electric
Motor-Transmission System for Electric
Vehicles: Technical Report

Report No. COO/2835-2, v.p.
1977, September
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; PERFORMANCE; DESIGN;
BATTERIES; TECHNOLOGY; TESTING;
SPECIFICATIONS; ELECTRIC MOTORS; EFFICIENCY;
AUTOMOTIVE ENGINEERING; COST ESTIMATES;
GRAPHS (CHARTS); TABLES (DATA)
AVAILABILITY: NTIS

Martini, W.P.
Washington, University of, Joint Center for
Graduate Study
ADDRESS: 100 Sprout Rd., Richland, WA 99352
TITLE: Stirling Engine Design Manual
Final Report, Report No. DOE/NASA/3152-78/1, NASA
CP-135382, 370 p.
1978, April
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation; National
Aeronautics and Space Administration, Lewis
Research Center
KEYWORDS: STIRLING ENGINES; DESIGN; MANUALS;
BIBLIOGRAPHIES; PERFORMANCE; OPTIMIZATION;
SIMULATION; MODELS; DIAGRAMS; RESEARCH
AVAILABILITY: NTIS

McLean, A.P.; Baker, R.R.
Ford Motor Co.
ADDRESS: Dearborn, MI 48121
TITLE: Brittle Materials Design, High Temperature
Gas Turbine. Volume 2: Ceramic Turbine
Rotor Technology

Report No. ABHRC TR 78-18, DA-OD 8733, 12th
Interim Report for the Period January -
September 1977, 93 p.
1978, March
SPONSOR: U.S. Dept. of Defense, Army Materials
and Mechanics Research Center; U.S. Dept. of

Energy, Division of Transportation Energy
Conservation
KEYWORDS: MATERIALS; DESIGN; GAS TURBINES;
CERAMICS; ROTORS; TECHNOLOGY; HIGH
TEMPERATURE; BRITTLENESS; FABRICATION;
SILICON NITRIDES; TESTING; COMPUTER PROGRAMS;
TABLES (DATA); GAS TURBINE ENGINES; SILICON
CARBIDES; MECHANICAL PROPERTIES; PHOTOGRAPHS;
DIAGRAMS
AVAILABILITY: NTIS

Mechanical Technology Inc., R&D Division
TITLE: Characterization Study of an Electric
Motor-Transmission System for Electric
Vehicles

Report No. HCP/N2835-01, v.p.
1978, March
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; PERFORMANCE; DESIGN;
AUTOMOBILE TRANSMISSIONS; TABLES (DATA);
GRAPHS (CHARTS)
AVAILABILITY: NTIS

Highdollar, P.; Hahn, W.F.
Booz, Allen & Hamilton Inc., Design and
Development Division
ADDRESS: Cleveland, OH 44131
TITLE: Preliminary Power Train Design for a
State-of-the-Art Electric Vehicle

Report No. DOE/NASA/0595-78/1, NASA CP-13541, 140
p.
1978, April
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Electric
and Hybrid Vehicle Systems Program; National
Aeronautics and Space Administration, Lewis
Research Center
KEYWORDS: POWER TRAIN SYSTEMS; ELECTRIC VEHICLES;
TECHNOLOGY ASSESSMENT; MOTORS; AUTOMOBILE
TRANSMISSIONS; MODELS; DESIGN; COMPUTERIZED
SIMULATION; DIAGRAMS; TABLES (DATA)
AVAILABILITY: NTIS

Hittal, R.K. (ed.)
Union College
ADDRESS: Schenectady, NY 12308
TITLE: Third National Conference on the Effects
of Energy Constraints on Transportation
Systems

Proceedings of a conference held at Union
College, Schenectady, New York, August 2-6,
1976, 408 p.

1977, May
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: TRANSPORTATION SYSTEMS; ENERGY
CONSUMPTION; ENERGY CONSERVATION; URBAN
TRANSPORTATION; BAY AREA RAPID TRANSIT
SYSTEM; CARGO TRANSPORTATION; RAIL
TRANSPORTATION; PASSENGER TRANSPORTATION;
REGULATIONS; CARPOOLING; TRUCKS; FUEL
ECONOMY; INTERCITY TRANSPORTATION; RAPID
TRANSIT SYSTEMS; AIR TRANSPORTATION; TABLES
(DATA); CONFERENCES; COMPUTERIZED SIMULATION
AVAILABILITY: GPO, Stock No. 060-000-00073-5

Hueller Associates Inc.
ADDRESS: Baltimore, MD
TITLE: Status of Alcohol Fuels Utilization

Technology for Highway Transportation

Report No. HCP/H2923-01, 132 p.
1978, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ALTERNATE FUELS; UTILIZATION; ALCOHOL
FUELS; HIGHWAY TRANSPORTATION; METHANOL;
ETHANOL; TESTING; ENGINES; EMISSIONS;
PERFORMANCE; FUEL ECONOMY; FUEL CONSUMPTION;
COMPARATIVE EVALUATIONS; PROPERTIES; COSTS;
GRAPHS (CHARTS); WATER
AVAILABILITY: NTIS

Fueller Associates Inc.
ADDRESS: Baltimore, MD
TITLE: Denaturants for Ethanol/Gasoline Blends

Report No. HCP/H2C99-01, 16 p.
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ETHANOL; GASOLINE; ALTERNATE FUELS;
DENATURANTS

National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: State-Of-The-Art Assessment of Electric
and Hybrid Vehicles

Report No. HCP/H1011-01, v.p.
1978, January
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; EQUIPMENT;
TESTING; TABLES (DATA); BATTERIES; SURVEYS;
PERFORMANCE; ELECTRIC VEHICLE RANGE; ENERGY
CONSUMPTION; RELIABILITY
AVAILABILITY: NTIS

National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH
TITLE: Twelve State-of-the-Art Individual
Electric and Hybrid Vehicle Test Reports.
Volume I

Report No. HCP/H1011-03/1, v.p.
1978, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; TESTING; DRIVING
CYCLE; ENERGY CONSUMPTION; PERFORMANCE;
DESIGN; BATTERIES; TABLES (DATA); GRAPHS
(CHARTS); MANUFACTURERS
AVAILABILITY: NTIS

North Atlantic Treaty Organization, Committee on
the Challenges of Modern Society
TITLE: Proceedings of the Fourth International
Symposium on Automotive Propulsion Systems.
Volumes I and II

Report No. CONF-770830/1, symposium held in
Washington, DC, April 18-22, 1977, 1038 p.
1978, February
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: CONFERENCES; PROPULSION; AUTOMOBILES;
GAS ENGINES; AUTOMOTIVE FUELS; FUELS; DIESEL
ENGINES; STIRLING ENGINES; RANKINE CYCLE
ENGINES; ELECTRIC VEHICLES; HYBRID

ELECTRIC-POWERED VEHICLES; STRATIFIED CHARGE
ENGINES; SPARK IGNITION ENGINES; AUTOMOTIVE
EMISSIONS; POWER TRAIN SYSTEMS
AVAILABILITY: NTIS (when available)

Paul, F.W.; Negreanu, M.J.
Carnegie-Mellon University, Mechanical
Engineering Dept.
ADDRESS: Pittsburgh, PA
TITLE: Applied Studies in Advanced Boiler
Technology for Rankine Cycle Power Systems

Report No. COO/2633-3, v.p.
1978, February
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: BOILERS; RANKINE CYCLE POWER SYSTEMS;
DESIGN; COMPARATIVE EVALUATIONS; TESTING;
VAPOR GENERATORS; MODELS; SIMULATION; DIAGRAMS
AVAILABILITY: NTIS

Pefley, R.K.; Browning, L.H.; McCormack, H.C.;
Hornberger, M.L.; Likos, W.E.; Pullman, B.
Santa Clara University, Dept. of Mechanical
Engineering
ADDRESS: Santa Clara, CA 95053
TITLE: Characterization and Research
Investigation of Methanol and Methyl Fuels

Report No. COO-1258-1, M.E. 77-1, 108 p.
1977, August
SPONSOR: U.S. Environmental Protection Agency,
Motor Vehicle Emission Laboratory; Energy
Research and Development Administration,
Division of Transportation Energy Conservation
KEYWORDS: ALTERNATE FUELS; METHANOL; COMPARATIVE
EVALUATIONS; EMISSIONS; EFFICIENCY; FUEL
ECONOMY; GASOLINE; PERFORMANCE; COMPUTERIZED
SIMULATION; GRAPHS (CHARTS); TABLES (DATA);
TESTING
AVAILABILITY: NTIS

Phoebe, C.H.
Gulf Research and Development Co.
ADDRESS: Pittsburgh, PA 15230
TITLE: Passenger Car Fuel Economy in Short Trip
Operation. Technical Progress Report for
Period May 1, 1977 - November 30, 1977

Report No. COO/4248-1, 23 p.
1977, November
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: FUEL ECONOMY; GASOLINE; HYDROGEN;
METHANOL; FUEL INJECTION SYSTEMS; STIRLING
ENGINES; GAS ENGINES; AUTOMOBILES;
COMPARATIVE EVALUATIONS; DRIVING CYCLE;
HIGHWAY TRANSPORTATION; ENERGY STORAGE;
VEHICLE TRIPS; TESTING; FUEL CONSUMPTION;
VEHICLE MILES TRAVELED; PHOTOGRAPHS;
AUTOMOBILE OCCUPANCY
AVAILABILITY: NTIS

Pouliot, H.W.; Robinson, C.W.; Delameter, W.R.
Sandia Laboratories
ADDRESS: Livermore, CA
TITLE: A Variable-Displacement Spark-Ignition
Engine

Final Report, Report No. SAND 77-8299, 108 p.
1978, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: SPARK IGNITION ENGINES; VARIABLE

DISPLACEMENT ENGINES; EXHAUST RECIRCULATION SYSTEMS; AUTOMOTIVE EMISSIONS; FUEL ECONOMY; MEASUREMENT; TESTING; DRIVING CYCLE; URBAN TRANSPORTATION; MECHANICS; GRAPHS (CHARTS); DIAGRAMS; HYDROCARBONS; NITROGEN OXIDES
 AVAILABILITY: GPO, Stock No. 061-000-00108-5

Purdue University, Institute for Interdisciplinary Engineering Studies
 ADDRESS: West Lafayette, IN
 TITLE: Opportunity and Risk Assessment of the Electric and Hybrid Vehicle Research, Development and Demonstration Act of 1976

Report No. HCP/H4250-01 (Previously issued as COO-4250-1), 327 p.

1978, January
 SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: ELECTRIC VEHICLES; HYBRID ELECTRIC-POWERED VEHICLES; COMMERCIALIZATION; ENERGY DEMAND; COSTS; PERFORMANCE; TABLES (DATA); ELECTRIC VEHICLE RANGE; TRANSPORTATION; PETROLEUM; ENERGY CONSERVATION; TECHNOLOGY ASSESSMENT; INSTITUTIONAL FACTORS; SAFETY
 AVAILABILITY: NTIS

Reilly, J.J.; Wiswall, R.H.; Waide, C.H.
 Brookhaven National Laboratory, Dept. of Applied Science
 ADDRESS: Upton, NY 11973
 TITLE: Motor Vehicle Storage of Hydrogen Using Metal Hydrides. Final Report

Report No. TEC-75/001, 88 p.
 1974, October

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
 KEYWORDS: HYDROGEN; HYDROGEN STORAGE; HYDRIDES; AUTOMOBILES; MAGNESIUM HYDRIDES; ALUMINUM HYDRIDES; DESIGN; STABILITY; COMPARATIVE EVALUATIONS; TABLES (DATA); DIAGRAMS; ALTERNATE FUELS
 AVAILABILITY: NTIS

Roelke, R.J.; McLellan, K.L.
 National Aeronautics and Space Administration, Lewis Research Center
 ADDRESS: Cleveland, OH 44135
 TITLE: Cold-Air Performance of the Compressor-Drive Turbine of the Department of Energy Baseline Automobile Gas-Turbine Engine

Report No. DOE/NASA/1011-78/25, NASA TN-78894, P-9480, 22 p.

1978, July
 SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: GAS TURBINE ENGINES; PERFORMANCE; US DOE; AUTOMOBILES; AERODYNAMICS; VELOCITY; TESTING; ENGINES; EFFICIENCY; EQUIPMENT; MEASUREMENT; PRESSURE MEASUREMENT; GRAPHS (CHARTS); DIAGRAMS; TEMPERATURE; TORQUE
 AVAILABILITY: NTIS

Roby, E.A.; Wachman, J.P.; Duffy, T.E.
 International Harvester Co., Solar Division
 ADDRESS: 2200 Pacific Highway, San Diego, CA 92138
 TITLE: Automotive Storage of Hydrogen Using Modified Magnesium Hydrides

Report No. TEC-75/002, 55 p.
 1975, July

SPONSOR: U.S. Environmental Protection Agency, Office of Air and Waste Management, Office of Mobile Source Air Pollution Control, Alternative Automotive Power Systems Division; Energy Research and Development Administration, Division of Transportation Energy Conservation
 KEYWORDS: HYDROGEN; AUTOMOBILES; MAGNESIUM HYDRIDES; ENERGY STORAGE; ALTERNATE FUELS; MAGNESIUM ALLOYS; RESEARCH; HYDRIDES; REFUELING; TABLES (DATA); GRAPHS (CHARTS); HYDROGEN STORAGE
 AVAILABILITY: NTIS

Rosenberg, W.; Bufferd, A.; Coonley, P.; Hamilton, W.; Kaiser, P.; Raber, P.T.
 U.S. Dept. of Transportation, Transportation Systems Center
 ADDRESS: Kendall Square, Cambridge, MA 02142
 TITLE: Institutional Factors in Transportation Systems and Their Potential for Bias Toward Vehicles of Particular Characteristics

Report No. HCP/H1043-01, CONS/1043-1, 428 p.
 1978, February

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: HYBRID ELECTRIC-POWERED VEHICLES; INSTITUTIONAL FACTORS; LEGISLATION; TAXES; REGULATIONS; ELECTRIC VEHICLES; TRAFFIC CONTROL; GOVERNMENT POLICIES; AUTOMOTIVE INDUSTRY; ELECTRIC POWER; BATTERY CHARGING; VEHICLE PARKING; TABLES (DATA); REGIONAL ANALYSIS; PRICES; RATES (COSTS); PETROLEUM; URBAN AREAS
 AVAILABILITY: NTIS

Ross, J.A.; Wooldridge, G.A.
 Rohr Industries Inc., Advanced Transportation Systems
 ADDRESS: Chula Vista, CA 92010
 TITLE: Preliminary Power Train Design for a State-of-the-Art Electric Vehicle

Report No. DOE/NASA/0592-78/1, NASA CR-135340, RHR-78-035, 222 p.

1978, April
 SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation, Electric and Hybrid Vehicle Systems Program; National Aeronautics and Space Administration, Lewis Research Center
 KEYWORDS: ELECTRIC VEHICLES; DESIGN; POWER TRAIN SYSTEMS; PERFORMANCE; ELECTRIC VEHICLE RANGE; DRIVING CYCLE; EFFICIENCY; AUTOMOTIVE ENGINEERING; TESTING; SIMULATION
 AVAILABILITY: NTIS

Rowlett, B.H.; Huffy, R.
 Airesearch Manufacturing Co.
 ADDRESS: Torrance, CA
 TITLE: Near-Term Electric Vehicle Program: Phase 1, Final Report

Report No. SAN/1213-1, 259 p.
 1977, August

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
 KEYWORDS: ELECTRIC VEHICLES; DESIGN; PERFORMANCE; SAFETY; BATTERIES; TABLES (DATA); GRAPHS (CHARTS); DIAGRAMS; ENERGY STORAGE; ECONOMICS; COSTS; DEVELOPMENT; MODELS; SIMULATION; LIFE-CYCLE COST; TRANSPORTATION
 AVAILABILITY: NTIS

Ruscitto, D.; McCormick, J.; Gray, S.
Mechanical Technology Inc.
ADDRESS: Ithaca, NY 14850
TITLE: Hydrodynamic Air Lubricated Compliant
Surface Bearing for an Automotive Gas Turbine
Engine. I - Journal Bearing Performance

Report No. COVS/9427-1, NASA-CR-135368, 148 p.
1978, April
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation; National
Aeronautics and Space Administration
KEYWORDS: TESTING; AUTOMOTIVE ENGINES; GAS
TURBINE ENGINES; BEARINGS; DESIGN;
PERFORMANCE; TEMPERATURE
AVAILABILITY: NTIS

Schnidt, F.W.; Wagner, C.E.
Chrysler Corp.
ADDRESS: Detroit, MI
TITLE: Baseline Gas Turbine Development Program.
Eighteenth Quarterly Progress Report

Report No. COO-2789-18, 261 p.
1977, April 30
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: GAS TURBINE ENGINES; DESIGN;
EFFICIENCY; FUEL ECONOMY; GRAPHS (CHARTS);
TABLES (DATA); DIAGRAMS; VEHICLES;
PERFORMANCE; DEVELOPMENT
AVAILABILITY: NTIS

Schwartz, W.J.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: New Batteries and Their Impact on Electric
Vehicles

Report No. ERDA/NASA 1011/77/3, NASA TM X-7362,
paper presented at the International Electric
Vehicle Exposition, held in Chicago,
Illinois, April 26-29, 1977, v.p.
1977
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; ELECTRIC VEHICLE
RANGE; COSTS; BATTERIES; PERFORMANCE;
COMPARATIVE EVALUATIONS

Schwartz, R.
ASL Engineering Inc.
ADDRESS: 405 South Fairview Avenue, Goleta, CA
93017
TITLE: Near-Term Electric Vehicle Program.
Phase 1, Final Report

Report No. SAN/1295-1, 304 p.
1977, August
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; DESIGN; BATTERIES;
PERFORMANCE; TABLES (DATA); GRAPHS (CHARTS);
DIAGRAMS; LIFE-CYCLE COST; COSTS; EFFICIENCY;
ENERGY STORAGE; URBAN TRANSPORTATION; ENERGY
CONSUMPTION; ENERGY CONSERVATION; WEIGHT
AVAILABILITY: NTIS

Shonka, D.B.
Oak Ridge National Laboratory, Energy Division,

Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: Characteristics of Automotive Fleets in
the United States: 1966-1977

Report No. ORNL/TN-6849 Special, 49 p.
1978, September
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: AUTOMOTIVE FLEETS; AUTOMOBILES;
INVENTORIES; PURCHASING; FUEL ECONOMY;
OWNERSHIP; SURVEYS; TABLES (DATA); SIZE;
VEHICLE REGISTRATIONS; VEHICLE MILES
TRAVELED; CHARACTERISTICS
AVAILABILITY: NTIS

Shonka, D.B.; Loebl, A.S.; Patterson, P.D.;
O'Connor, T.P.; Ogle, H.C.; Rose, A.B.;
Greene, D.L.
Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: Transportation Energy Conservation Data
Book: Edition 2

Report No. ORNL-5320, 459 p.
1977, October
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ENERGY CONSERVATION; HIGHWAY
TRANSPORTATION; AIR TRANSPORTATION; RAIL
TRANSPORTATION; MARINE TRANSPORTATION;
PIPELINE TRANSPORTATION; STATISTICS; TABLES
(DATA); GRAPHS (CHARTS); VEHICLES;
REGULATIONS; ENERGY CONSUMPTION; DEMAND
(ECONOMICS); FUEL ECONOMY; FUEL CONSUMPTION;
AUTOMOBILES; ENERGY INTENSITY; TRAVEL; ENERGY
DEMAND; PASSENGER TRANSPORTATION; AUTOMOTIVE
FLEETS; PETROLEUM; SALES; PUBLIC
TRANSPORTATION; URBAN TRANSPORTATION; VEHICLE
REGISTRATIONS; VEHICLE MILES TRAVELED;
FORECASTING; GOVERNMENT POLICIES; ENERGY
SUPPLIES; WATER TRANSPORTATION
AVAILABILITY: NTIS

Soltis, R.F.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: A Cycle Tiser for Testing Electric Vehicles

Report No. DOE/NASA/1011-78/27, NASA TN-7893a,
E-9677, Technical Paper presented at the
Fifth International Electric Vehicle
Symposium sponsored by the Electric Vehicle
Council, Philadelphia, PA, October 2-5, 1978,
5 p.
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; TESTING; DRIVING
CYCLE; VELOCITY; EQUIPMENT
AVAILABILITY: NTIS

Soltis, R.F.; Bozek, J.M.; Denington, R.J.;
Dustin, H.O.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Baseline Tests of the Kordesch Hybrid
Passenger Vehicle

Report No. NASA TN-73769, COE/1011-14, 68 p.
1978, June
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; TESTING;

ACCELERATION; ELECTRIC VEHICLE RANGE;
PASSENGER TRANSPORTATION; FUEL ECONOMY; SPARK
IGNITION ENGINES; PERFORMANCE; DIAGRAMS;
GRAPHS (CHARTS); ENERGY CONSUMPTION
AVAILABILITY: NTIS

Soltis, R.P.; Dustin, H.O.; Sargent, W.B.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Results of Baseline Tests of the Lucas
Lisouaine

Report No. NASA TH X-73609, 27 p.
1977, January
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; TESTING; DRIVE TRAIN
SYSTEMS; BATTERIES; PASSENGER TRANSPORTATION;
DRIVING CYCLE; PERFORMANCE; MILEAGE; ENERGY
CONSUMPTION; STANDARDS; PHOTOGRAPHS; GRAPHS
(CHARTS); ELECTRIC VEHICLE RANGE
AVAILABILITY: NTIS

Southwest Research Institute; Cameron Engineers;
Standard Oil Co. of Ohio; SOHIO Petroleum Co.
ADDRESS: SPI, San Antonio, TX; CE, Denver, CO;
SOHIO, Grand Junction, CO
TITLE: Identification of Probable Automotive
Fuels Composition: 1985-2000 and Executive
Summary

Report No. HCP/W3688-01/1, 218 p.; Report No.
HCP/W3688-01/2 for Executive Summary, 55 p.
1978, May
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ALTERNATE FUELS; RAW MATERIALS;
AUTOMOTIVE FUELS; DIESEL FUELS; MARKET;
TRANSPORTATION; ENERGY FLOW; TABLES (DATA);
FORECASTING; ENERGY DEMAND; SYNTHETIC
PETROLEUM; REFINING; PROPERTIES; OIL SHALE;
ALCOHOL FUELS; AUTOMOBILES; METHANOL; COAL;
PRODUCTION; HYDROCARBONS; INTERNAL COMBUSTION
ENGINES; OCTANE; GASOLINE

Tacina, R.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Experimental Evaluation of
Premixing-Pre-vaporizing Fuel Injection
Concepts for a Gas Turbine Catalytic Combustor

Report No. CONS/1011-18, NASA TH-73755, paper
presented at the Winter Annual Meeting,
American Society of Mechanical Engineers,
Atlanta, Georgia, November 27 - December 2,
1977, v.p.
1977, August
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: FUEL INJECTION SYSTEMS; ATOMIZATION;
EVAPORATION; DIAGRAMS; GRAPHS (CHARTS); GAS
TURBINES; CATALYSTS; COMBUSTORS; AUTOMOBILES
AVAILABILITY: NTIS

Tew, R.; Jefferies, K.; Hiao, D.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: A Stirling Engine Computer Model for

Performance

Report No. DOE/NASA/1011-78/24, NASA-TH-78884, 69
p.
1978, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: STIRLING ENGINES; MODELS; PERFORMANCE;
THERMODYNAMIC PROPERTIES; SIMULATION;
COMPUTER PROGRAMS
AVAILABILITY: GPO, Stock No. 757-139/1201

Thermo Electron Corp.
ADDRESS: 101 First Avenue, Waltham, MA 02154
TITLE: Feasibility Test on Compounding the
Internal Combustion Engine for Automotive
Vehicles, Task II. Final Report

Report No. COO-2690-1, TE4193-76-75, 250 p.
1976
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: INTERNAL COMBUSTION ENGINES; DIESEL
ENGINES; RANKINE CYCLE ENGINES; PERFORMANCE;
FUEL ECONOMY; TRUCKS; DESIGN; GRAPHS
(CHARTS); DIAGRAMS; AUTOMOTIVE EMISSIONS;
FEASIBILITY; TESTING; WASTE HEAT; RECOVERY;
UTILIZATION; DEMONSTRATION
AVAILABILITY: NTIS

Tovle, W.L.; Graae, J.E.A.; Chilenskas, A.A.;
Ivins, R.O.
Argonne National Laboratory
ADDRESS: 9700 South Cass Ave., Argonne, IL 60439
TITLE: Cost Estimate for the Commercial
Manufacture of Lithium/Iron Sulfide Cells for
Load-Leveling

Report No. ANL-76-12, 67 p.
1976, March
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: COSTS; LITHIUM/METAL SULFIDE BATTERIES;
LOAD MANAGEMENT; UTILITIES; MANUFACTURING;
LITHIUM-ALUMINUM/METAL SULFIDE BATTERIES;
PRICES; ECONOMICS; DIAGRAMS
AVAILABILITY: NTIS

U.S. Dept. of Energy, Nevada Operations Office
ADDRESS: Las Vegas, NV
TITLE: Driver Aid and Education Test Project.
Final Report

Report No. DOE/CS-0043, v.p.
1978, July
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: AUTOMOBILE DRIVERS; EDUCATION;
AUTOMOTIVE FUELS; FUEL ECONOMY; AUTOMOBILES;
TRUCKS; TESTING; MEASURING INSTRUMENTS;
DRIVING CYCLE; FEEDBACK; TABLES (DATA);
GRAPHS (CHARTS); MONTHLY VARIATIONS
AVAILABILITY: NTIS

Underhill, B.; Gott, P.; Hurter, D.; Mathews, R.;
Hecalf, E.; Nicol, J.; Parry, J.; Stratton,
L.; Strong, S.; Dullivan, D.; Teeters, P.;
Whittier, A.
Little (Arthur D.) Inc.
ADDRESS: 25 Acorn Park, Cambridge, MA 02140
TITLE: Recommended Performance Standards for
Electric and Hybrid Vehicles

Report No. SAN/1335-1, 164 p.
 1977, September
 SPONSOR: Energy Research and Development
 Administration, Division of Transportation
 Energy Conservation
 KEYWORDS: ELECTRIC VEHICLES; HYBRID
 ELECTRIC-POWERED VEHICLES; PERFORMANCE;
 STANDARDS; RESEARCH; QUESTIONNAIRES; SURVEYS;
 TABLES (DATA); GRAPHS (CHARTS)

Union College, Graduate Studies and Continuing
 Education
 ADDRESS: Schenectady, NY 12308
 TITLE: Fourth National Conference on the "Effects
 of Energy Constraints on Transportation
 Systems"

Proceedings of a conference held at Union
 College, Schenectady, New York, on August
 1-5, 1977, v.p.

1977
 SPONSOR: Energy Research and Development
 Administration, Division of Transportation
 Energy Conservation
 KEYWORDS: TRANSPORTATION; CONFERENCES; ENERGY
 SHORTAGES; PLANNING; EFFICIENCY; INTERCITY
 TRANSPORTATION; PASSENGER TRANSPORTATION;
 CARGO TRANSPORTATION; AIR TRANSPORTATION;
 INFRASTRUCTURE TRANSPORTATION; RAIL
 TRANSPORTATION; GOVERNMENT POLICIES; ELECTRIC

VEHICLES; RESEARCH; ENERGY CONSUMPTION

Wagner, J.R.; Naughton, J.; Brooks, W.P.; Davis,
 R.
 Brookhaven National Laboratory, National Center
 for Analysis of Energy Systems
 ADDRESS: Upton, NY
 TITLE: Light Duty Highway Fleets: The Potential
 for Alternative Technologies in Fleets
 Operated by Corporations and State and Local
 Governments

Interim Briefing, presentation will be published
 as "Fleet Operator Vehicles: Summer 1977
 Data," Report No. BNL-50904

1978, March 3
 SPONSOR: U.S. Dept. of Energy, Division of
 Transportation Energy Conservation
 KEYWORDS: AUTOMOTIVE FLEETS; MODELS; FORECASTING;
 MARKET; VEHICLE REGISTRATIONS; AUTOMOBILES;
 HYBRID ELECTRIC-POWERED VEHICLES; PURCHASING;
 WEIGHT; EQUIPMENT; TRUCKS; HIGHWAY
 TRANSPORTATION; PASSENGER TRANSPORTATION;
 CAPACITY; DIESEL FUELS; AUTOMOTIVE ENGINES;
 SIZE; TABLES (DATA)

BIBLIOGRAPHY

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 Abbasi, S.R.; Grenfell, A.
 Library of Congress, Congressional Research
 Service, Environment and Natural Resources
 Policy Division
 ADDRESS: Washington, DC
 TITLE: Federal Energy Reorganization: Historical
 Perspective

Congressional Committee Print, 94th Congress, 2nd
 Session, Serial No. 94-46 (92-136), 1359 p.
 1976

SPONSOR: U.S. Senate, Committee on Interior and
 Insular Affairs
 KEYWORDS: ENERGY POLICY; HISTORY; GOVERNMENT
 POLICIES; NATURAL RESOURCES; US FEA; US ERDA;
 US DOE; BIBLIOGRAPHIES; INFORMATION;
 LEGISLATION

<2>
 Abbott, R.K.; Kirsten, F.A.; Mullen, D.R.;
 Turner, D.B.
 Lawrence Berkeley Laboratory
 ADDRESS: University of California, One Cyclotron
 Rd., Berkeley, CA 94720
 TITLE: Locomotive Data Acquisition Package:
 Phase 1. Final Report

Report No. LBL-7945, DOT/FRA/ORD/RED-12, 125 p.
 1978, September

SPONSOR: U.S. Dept. of Transportation, Federal
 Railroad Administration, Office of Research
 and Development

KEYWORDS: LOCOMOTIVES; RAILROAD CARS; DATA
 ACQUISITION; DATA ACQUISITION SYSTEMS; DATA
 PROCESSING; TRANSDUCERS; IMPACT SHOCK;
 MECHANICAL VIBRATIONS

AVAILABILITY: NTIS

<3>
 Abt Associates Inc.
 ADDRESS: Cambridge, MA
 TITLE: Impact of the FEA/EPA Fuel Economy
 Information Program: An Evaluation of the
 FEA/EPA Gas Mileage Label and 1976 Gas
 Mileage Guide for New Car Buyers. Volume I:
 Executive Summary

Report No. PB-266567, 31 p.
 1976, June

SPONSOR: Federal Energy Administration
 KEYWORDS: US FEA; FUEL ECONOMY; ENVIRONMENTAL
 PROTECTION AGENCY; SURVEYS; AUTOMOBILES; FUEL
 CONSUMPTION; GASOLINE; ATTITUDES;
 INFORMATION; MILEAGE; CONSUMERS

AVAILABILITY: NTIS

<4>
 Adams, F.G.; Graham, H.; Griffin, J.H.
 Pennsylvania, University of, Dept. of Economics,
 Economics Research Branch
 ADDRESS: Philadelphia, PA 19104
 TITLE: Demand Elasticities for Gasoline: Another
 View

Discussion Paper No 279, 15 p.
 1974, June 15

KEYWORDS: ELASTICITY (ECONOMICS); GASOLINE;
 ENERGY DEMAND; PRICES; MATHEMATICAL MODELS;
 FUEL CONSUMPTION; VEHICLES; INCOME; DEMAND
 (ECONOMICS); WEIGHT; SIZE; TIME SERIES
 ANALYSIS

<5>
 Adams, G.R.
 National Technical Information Service
 ADDRESS: 5285 Port Royal Road, Springfield, VA
 22161
 TITLE: Dual Mode Transportation (A Bibliography
 with Abstracts)

Report No. NTIS/PS-77/0490 (supersedes
 NTIS/PS-76/0352 and NTIS/PS-75/287), 161 p.
 1977, June

KEYWORDS: BIBLIOGRAPHIES; TRANSPORTATION;
 SOCIO-ECONOMIC FACTORS; URBAN TRANSPORTATION;
 RAIL TRANSPORTATION; RAPID TRANSIT SYSTEMS;
 PASSENGER TRANSPORTATION; BUSES (VEHICLES);
 COSTS; REGIONAL PLANNING; ABSTRACTS; PERSONAL
 RAPID TRANSIT; COMMUNICATION; DIAL-A-RIDE;
 CARGO TRANSPORTATION; TRANSPORTATION SYSTEMS

AVAILABILITY: NTIS

<6>
 Adams, G.H.
 National Technical Information Service
 ADDRESS: 5285 Port Royal Road, Springfield, VA
 22161
 TITLE: Tourism and Vacation Travel: State and
 Local Government Planning (A Bibliography
 with Abstracts)

Report No. NTIS/PS-77/0684 (supersedes
 NTIS/PS-77/0575, NTIS/PS-77/0292,
 NTIS/PS-76/0306, and NTIS/PS-75/148), 109 p.
 1977, August

KEYWORDS: TRAVEL; ECONOMIC IMPACT; SOCIO-ECONOMIC
 FACTORS; TOURISM; ECONOMIC DEVELOPMENT;
 RECREATION; STATE GOVERNMENT; LOCAL
 GOVERNMENT; PLANNING; LAND USE

AVAILABILITY: NTIS

<7>
 Adams, G.H. (ed.)
 National Technical Information Service
 ADDRESS: 5285 Port Royal Road, Springfield, VA
 22161
 TITLE: Bus Transportation. Part 1. National and
 General Studies (A Bibliography with
 Abstracts)

Report No. NTIS/PS-77/0935, 213 p.
 1977, October

KEYWORDS: BIBLIOGRAPHIES; BUSES (VEHICLES);
 RESEARCH; SAFETY; MAINTENANCE; ENGINES;
 PROPULSION; TRAVEL; DEMAND (ECONOMICS);
 SCHEDULING; COSTS; SUBSIDIES; ENGINEERING;
 HIGHWAYS; MODELS; TRAFFIC; CONFERENCES;
 PLANNING; MARKETING; AIR POLLUTION; RATES
 (COSTS); FORECASTING; SIMULATION; ABSTRACTS

AVAILABILITY: NTIS

<8>
 Aerospace Corp., Energy and Transportation
 Division, Transportation Group Directorate
 ADDRESS: El Segundo, CA
 TITLE: Mode Shift Strategies to Effect Energy
 Savings in Intercity Transportation

Final Report, v.p.
 1977, April

SPONSOR: Federal Energy Administration
 KEYWORDS: INTERCITY TRANSPORTATION;
 TRANSPORTATION SYSTEMS; ENERGY CONSERVATION;
 TRANSPORTATION MODE CHOICE; MODELS;
 FORECASTING; AIR TRANSPORTATION; RAIL
 TRANSPORTATION; BUSES (VEHICLES);
 AUTOMOBILES; RATES (COSTS); SOCIO-ECONOMIC
 FACTORS; FUEL CONSUMPTION; TRAVEL; TABLES
 (DATA); REGIONAL ANALYSIS

<9>

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Aerospace Corp., Environment and Energy
Conservation Division, Mobile Systems Group
ADDRESS: El Segundo, CA 90245
TITLE: Lean Combustion in Automotive Engines: An
Assessment of the Addition of Hydrogen to
Gasoline as Compared to Other Techniques

Report No. CONS/1101-1, ATR-76(7526)-1, 328 p.
1976, February

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: AUTOMOTIVE EMISSIONS; FUEL ECONOMY;
FUEL CONSUMPTION; GASOLINE; HYDROGEN;
COMPARATIVE EVALUATIONS; THERMAL EFFICIENCY;
TABLES (DATA); GRAPHS (CHARTS); ENGINES;
AUTOMOBILES; AUTOMOTIVE FUELS; HYDROGEN
FUELS; HYDROGEN STORAGE; PERFORMANCE
AVAILABILITY: NTIS

<10>

Agnew, W.G.
General Motors Corp., Research Laboratories
ADDRESS: Warren, MI 48090
TITLE: Engines and Energy--Future Trends

Report No. GHR-2636, paper presented at the
Implications of Energy Conservation
Symposium, Colorado Springs, Colorado,
January 31, 1978, v.p.

1978, January 31
KEYWORDS: ENGINES; FORECASTING; FUEL ECONOMY;
SPARK IGNITION ENGINES; EFFICIENCY;
AUTOMOTIVE EMISSIONS; DIESEL ENGINES;
STRATIFIED CHARGE ENGINES; ELECTRIC VEHICLES;
GAS TURBINE ENGINES; METHANOL; HYDROGEN; FUEL
CELLS; ALTERNATE FUELS; BATTERIES; ALCOHOLS;
FEASIBILITY; OTTO CYCLE; BRAYTON CYCLE;
RANKINE CYCLE ENGINES; PHOTOGRAPHS; DIAGRAMS

<11>

Air Transport Association of America, Economics
and Finance Dept.
ADDRESS: 1709 New York Ave. NW, Washington, DC
20006
TITLE: Airline Financial Performance 1976-1977:
A Look at Earnings and Needs

87 p.

1977, January
KEYWORDS: FORECASTING; COMPARATIVE EVALUATIONS;
GRAPHS (CHARTS); AIR TRANSPORTATION; GROWTH;
ECONOMIC CONDITIONS; STATISTICS; FINANCIAL
DATA; EARNINGS; PROFITS; SERVICES;
PERFORMANCE; CAPITAL

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Airesearch Manufacturing Co.
TITLE: Study of Heat Engine/Flywheel: Hybrid
Propulsion Configuration with Electrical
Transmission System. Phase II Final Report:
Design Definition

Report No. ALO-41/2, 19 p.
1978, April

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: DESIGN; HYBRID ELECTRIC-POWERED
VEHICLES; FLYWHEELS; AUTOMOBILE
TRANSMISSIONS; SIZE; WEIGHT; PERFORMANCE;
MATERIALS; COSTS; DIAGRAMS

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Airesearch Manufacturing Co.
TITLE: Study of Heat Engine/Flywheel: Hybrid
Propulsion Configuration with Electrical
Transmission System. Phase I: Final Report

Report No. ALO-41/1, v.p.
1978, April

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: HYBRID ELECTRIC-POWERED VEHICLES;
FLYWHEELS; AUTOMOBILE TRANSMISSIONS; DRIVING
CYCLE; FUEL CONSUMPTION; COMPARATIVE
EVALUATIONS; COSTS; DIAGRAMS; GRAPHS
(CHARTS); DESIGN

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Albers, J.P.; Bawiec, W.J.; Rooney, L.F.;
Goudarzi, G.H.; Shaffer, G.L.
U.S. Dept. of Interior, Geological Survey
ADDRESS: Washington, DC
TITLE: Demand and Supply of Nonfuel Minerals and
Materials for the United States Energy
Industry, 1975-90--A Preliminary Report

Geological Survey Professional Paper 1006-A,B,
v.p.

1976

KEYWORDS: MINERALS; FOSSIL FUELS; TABLES (DATA);
FORECASTING; COAL MINING; NATURAL GAS; SOLAR
ENERGY; GEOTHERMAL ENERGY; NUCLEAR ENERGY;
ENERGY CONSUMPTION; NUCLEAR POWER PLANTS;
HYDROELECTRIC POWER; URANIUM ORE; SYNTHETIC
FUELS; ENERGY DEMAND; ENERGY RESOURCES;
MATERIALS; REGIONAL ANALYSIS; COMMODITIES;
ELECTRIC POWER DEMAND; DEMAND (ECONOMICS);
SUPPLY (ECONOMICS)

AVAILABILITY: GPO, Stock No. 024-001-02867-1

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Allen, E.L.; Cooper, C.L.; Edmonds, P.C.;
Edmonds, J.A.; Reister, D.B.; Weinberg, A.H.;
Whittle, C.E.; Zelby, L.W.
Institute for Energy Analysis
ADDRESS: Oak Ridge Associated Universities, P.O.
Box 117, Oak Ridge, TN 37830
TITLE: U.S. Energy and Economic Growth, 1975-2010

Report No. ORAU/IEA-76-7, 95 p.

1976, September

SPONSOR: Energy Research and Development
Administration
KEYWORDS: ECONOMIC DEVELOPMENT; ENERGY DEMAND;
TECHNOLOGY; PRICES; GROSS NATIONAL PRODUCT;
FORECASTING; HISTORY; ENERGY CONSERVATION;
TABLES (DATA)

AVAILABILITY: NTIS

<16>

Allen, E.W. (ed.)
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Transportation Systems Center Bibliography
of Technical Reports: July 1970 - December
1976

Report No. DOT-TSC-OST-77-17, 234 p.

1977, April

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary
KEYWORDS: BIBLIOGRAPHIES; TRANSPORTATION;
AIRCRAFT; FUEL CONSUMPTION; NOISE (SOUND);
RAILROADS; URBAN TRANSPORTATION; VEHICLES;
ENVIRONMENTAL IMPACT; GOVERNMENT POLICIES;
REGULATIONS; AIR TRANSPORTATION; HIGHWAY
TRANSPORTATION

AVAILABILITY: NTIS

<17>
 Allen, H.H.; Larson, K.J.; Walker, B.H.
 Pratt & Whitney Aircraft Group, Government
 Products Division
 ADDRESS: P.O. Box 2691, West Palm Beach, FL
 TITLE: Process Demonstration and Cost Analysis of
 a Mass Production Forging Technique for
 Automotive Turbine Wheels: Phase II. Final
 Report, Period January 1975 Through March 1977

Report No. COO/2637-1, 75 p.
 1977, July
 SPONSOR: Energy Research and Development
 Administration, Division of Transportation
 Energy Conservation
 KEYWORDS: DEMONSTRATION; PROCESSING; COST
 ANALYSIS; PRODUCTION; FORGING; TURBINES;
 AUTOMOBILES; TURBINE BLADES; ENGINES; GAS
 TURBINE ENGINES; DESIGN; MATERIALS;
 FABRICATION; ROTORS; MANUFACTURING; DIAGRAMS;
 GRAPHS (CHARTS); PHOTOGRAPHS; TABLES (DATA)
 AVAILABILITY: NTIS

<18>
 Altendorf, J.P.; Kalberlah, A.
 Volkswagenwerk AG
 ADDRESS: Wolfsburg, Germany
 TITLE: A Comparison Between the Primary Energy
 Consumption of Electric and Gasoline Powered
 Vehicles

Paper presented at the Fourth International
 Electric Vehicle Symposium (sponsored by the
 Electric Vehicle Council and the
 International Union of Producers and
 Distributors of Electrical Energy), held in
 Dusseldorf, Germany, August 31 - September 2,
 1976, 21 p.
 1976, September
 KEYWORDS: ENERGY CONSUMPTION; ELECTRIC VEHICLES;
 GASOLINE; COMPARATIVE EVALUATIONS; TESTING;
 FUEL CONSUMPTION; EFFICIENCY; INTERNAL
 COMBUSTION ENGINES
 AVAILABILITY: Electric Vehicle Council, 90 Park
 Ave., New York, NY 10016 \$1.50

<19>
 Altendorf, J.P.; Kalberlah, A.; Saridakis, N.
 Volkswagenwerk AG
 ADDRESS: Wolfsburg, Germany
 TITLE: On the Relationship between Gross Vehicle
 Weight, Payload, Effective Range, and Cost of
 Electric Vehicles

Paper No. 780220, presented at the Society of
 Automotive Engineers' Congress and
 Exposition, Cobo Hall, Detroit, Michigan,
 February 27 - March 3, 1978, 12 p.
 1978
 KEYWORDS: ELECTRIC VEHICLES; WEIGHT; ELECTRIC
 VEHICLE RANGE; COSTS; ENERGY STORAGE;
 BATTERIES; PRICES; COMPARATIVE EVALUATIONS;
 DRIVING CYCLE
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096 \$2.50

<20>
 American Bus Association
 ADDRESS: 1025 Connecticut Ave., Washington, DC
 20036
 TITLE: Report from the American Bus Association.
 America's Number 1 Passenger Transportation
 Service

33 p.
 1977
 KEYWORDS: BUSES (VEHICLES); GRAPHS (CHARTS);

<17>
 TABLES (DATA); PASSENGER TRANSPORTATION;
 ENERGY CONSUMPTION; FINANCIAL DATA; SAFETY;
 INTERCITY TRANSPORTATION; REVENUE; AIRTRAK;
 COMPETITION

<21>
 American Gas Association, Financial and
 Administrative Section, Library Services
 Committee
 ADDRESS: 1515 Wilson Boulevard, Arlington, VA
 22209
 TITLE: Production and Use of Methanol (A
 Bibliography 1960-1977)

22 p.
 1977, August
 KEYWORDS: METHANOL; ALTERNATE FUELS; UTILIZATION;
 PRODUCTION; BIBLIOGRAPHIES; GASOLINE;
 AUTOMOBILES
 AVAILABILITY: Library, Northern Natural Gas
 Company, 2223 Dodge Street, Omaha, NE 68102

<22>
 American Nuclear Society Inc.
 ADDRESS: 555 N. Kensington, Ave., La Grange Park,
 IL 60525
 TITLE: Proceedings of the 12th Intersociety
 Energy Conversion Engineering Conference.
 Volumes 1 and 2

Proceedings of a conference held in Washington,
 DC, August 28 - September 2, 1977, v.p.
 1977
 KEYWORDS: FUEL ECONOMY; GAS TURBINE ENGINES;
 AUTOMOTIVE ENGINES; US ERDA; ALTERNATE FUELS;
 BRAYTON CYCLE; ELECTRIC VEHICLES; BATTERIES;
 ENERGY CONSERVATION; EQUIPMENT; ENVIRONMENTAL
 IMPACT; INDUSTRIAL SECTOR; UNCONVENTIONAL
 ENERGY SOURCES; MAGNETOHYDRODYNAMICS; RANKINE
 CYCLE ENGINES; STIRLING ENGINES; THERMIONICS;
 ENERGY CONVERSION; DESIGN; WASTE HEAT;
 INDUSTRIES; ELECTRIC POWER; SOLAR COLLECTORS;
 SOLAR ENERGY; PHOTOVOLTAIC CELLS;
 PHOTOVOLTAIC CONVERSION; THERMAL ENERGY
 STORAGE EQUIPMENT; INSULATION; WIND POWER;
 DIAGRAMS; MODELS; NUCLEAR POWER

<23>
 American Public Transit Association
 ADDRESS: 1100 17th Street NW, Suite 1200,
 Washington, DC 20036
 TITLE: Transit Fact Book, 1977-78 Edition
 Annual Publication, 1977-78 edition, 64 p.
 1978, May
 KEYWORDS: TRANSPORTATION; STATISTICS; MASS
 TRANSPORTATION; BUSES (VEHICLES); PASSENGER
 TRANSPORTATION; AUTOMOBILES; RAIL
 TRANSPORTATION; REVENUE; FUEL CONSUMPTION;
 TABLES (DATA)

<24>
 American Trucking Associations Inc., Dept. of
 Economics
 ADDRESS: 1616 P Street NW, Washington, DC 20036
 TITLE: Monthly Truck Tonnage Report
 Monthly report, approximately 2 p.
 KEYWORDS: TRUCKS; CARGO TRANSPORTATION; TABLES
 (DATA); INTERCITY TRANSPORTATION; REGIONAL
 ANALYSIS; COMPARATIVE EVALUATIONS

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American Trucking Associations Inc., Dept. of
Economics
ADDRESS: 1616 P Street NW, Washington, DC 20036
TITLE: Weekly Truck Tonnage Report

Weekly report, approximately 2 p.

KEYWORDS: TRUCKS; CARGO TRANSPORTATION; TABLES
(DATA); INTERCITY TRANSPORTATION; SURVEYS

<26>

American Trucking Associations Inc., Dept. of
Economics
ADDRESS: 1616 P Street NW, Washington, DC 20036
TITLE: Motor Carrier Statistical Summary

Quarterly and annual reports

KEYWORDS: STATISTICS; TRUCKS; REVENUE; EXPENSES;
INCOME; TABLES (DATA); FINANCIAL DATA;
ECONOMICS; INTERCITY TRANSPORTATION; CARGO
TRANSPORTATION; COMMODITIES; HISTORY

<27>

American Trucking Associations Inc., Dept. of
Economics; American Trucking Associations
Inc., Public Relations Dept.
ADDRESS: 1616 P Street NW, Washington, DC 20036
TITLE: American Trucking Trends. 1976
Statistical Supplement

28 p.

1977

KEYWORDS: TRUCKS; STATISTICS; REVENUE; COSTS;
TAXES; CARGO TRANSPORTATION; EQUIPMENT;
SAFETY; TABLES (DATA); GRAPHS (CHARTS);
EXPENSES; VEHICLE REGISTRATIONS; WAGES
AVAILABILITY: American Trucking Associations
Inc., Public Relations Dept.

<28>

American Waterways Operators Inc.
ADDRESS: 1600 Wilson Boulevard, Suite 1101,
Arlington, VA 22209
TITLE: 1976 Inland Waterborne Commerce Statistics

Annual report, 45 p.

1976, June

KEYWORDS: WATER TRANSPORTATION; STATISTICS;
WATERWAY TRANSPORTATION; TABLES (DATA);
COMMODITIES; CARGO TRANSPORTATION; COMMERCE;
RIVERS; COSTS

<29>

Andersen (Arthur) and Co.
ADDRESS: 1666 K Street NW, Washington, DC 20006
TITLE: Urban Mass Transportation Industry Uniform
System of Accounts and Records and Reporting
System. Volumes 1-4

Report No. PB-264877, UMTA-IT-06-0094-77-1, v.p.
for Volume 1; Report No. PB-264878,
UMTA-IT-06-0094-77-2, v.p. for Volume 2;
Report No. PB-264879, UMTA-IT-06-0094-77-3,
v.p. for Volume 3; Report No. PB-264880,
UMTA-IT-06-0094-77-4, v.p. for Volume 4
1977, January 10

SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration

KEYWORDS: URBAN TRANSPORTATION; MASS
TRANSPORTATION; ACCOUNTING; FINANCIAL DATA;
OPERATING COSTS; DATA ACQUISITION; FORMS
(PAPER); MAINTENANCE; ACCIDENTS
AVAILABILITY: NTIS

<30>

Andersen, C.J.
Lawrence Livermore Laboratory
ADDRESS: Livermore, CA 94550
TITLE: Alternative Fuels for Transportation:
Implications of the Broad-Cut Option

Report No. UCRL-52313, 18 p.

1977, July 11

SPONSOR: Energy Research and Development
Administration

KEYWORDS: GASOLINE; DIESEL FUELS; BROAD-CUT
FUELS; ENERGY CONSERVATION; EFFICIENCY;
ENGINES; PRODUCTION; PETROLEUM; COAL;
SYNTHETIC FUELS; GOVERNMENT POLICIES; OIL
SHALE; GRAPHS (CHARTS); TABLES (DATA);
PETROLEUM REFINING
AVAILABILITY: NTIS

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Anderson, D.W.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Performance and Emissions of a Catalytic
Reactor with Propane, Diesel, and Jet A Fuels

Report No. NASA TR-73786, CONS/1011-20, paper
presented at the Fall meeting, Western States
Section of the Combustion Institute,
Stanford, California, October 17-18, 1977,
7 p.

1977, September

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYWORDS: PROPANE; DIESEL FUELS; JET ENGINE
FUELS; PERFORMANCE; COMBUSTION; NITROGEN
OXIDES; EFFICIENCY; EMISSIONS; COMPARATIVE
EVALUATIONS; CATALYSTS; HIGHWAY
TRANSPORTATION; AUTOMOTIVE EMISSIONS; GRAPHS
(CHARTS)
AVAILABILITY: NTIS

<32>

Anderson, R.K.; Hitchings, J.S.
American Gas Association, Policy and Economic
Analysis Division
ADDRESS: 1515 Wilson Boulevard, Arlington, VA
22209

TITLE: President's Proposed Energy Tax Measures
Costly for Consumers

American Gas Association Monthly, 59(11), 8-10
1977

KEYWORDS: NATIONAL ENERGY PLAN; TAXES; CONSUMERS;
GASOLINE; AUTOMOBILES; FUEL ECONOMY;
PETROLEUM; UTILIZATION; GROSS NATIONAL
PRODUCT; FORECASTING; MODELS; ECONOMETRIC
ANALYSIS

<33>

Andrews, P.D.; Langdon, H.G.
Transport and Road Research Laboratory, Dept. of
the Environment
ADDRESS: Crowthorne, Berkshire, United Kingdom
TITLE: An Individual Cost Minimising Method of
Determining Modal Split Between Three Travel
Modes

TRL Laboratory Report 698, 43 p.

1976

KEYWORDS: MATHEMATICAL MODELS; TRAVEL; COSTS;
URBAN TRANSPORTATION; AUTOMOBILES; BUSES

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(VEHICLES); RAPID TRANSIT SYSTEMS; ECONOMICS;
PUBLIC TRANSPORTATION; COMPARATIVE
EVALUATIONS; BEHAVIOR; TABLES (DATA); GRAPHS
(CHARTS)

<34>

Inagell, P.R.; Golec, T.
Chrysler Corp.
ADDRESS: Detroit, MI
TITLE: Upgrading Automotive Gas Turbine
Technology. An Experimental Evaluation of
Improvement Concepts

Paper No. 760280, presented at the Society of
Automotive Engineers Congress and Exposition,
Detroit, Michigan, February 23-27, 1976, 50 p.
1976

SPONSOR: Society of Automotive Engineers
KEYWORDS: GAS TURBINES; AUTOMOBILES; GAS TURBINE
ENGINES; DIAGRAMS; GRAPHS (CHARTS);
PERFORMANCE; TESTING; AUTOMOTIVE EMISSION
CONTROL; FUEL ECONOMY; PHOTOGRAPHS
AVAILABILITY: Society of Automotive Engineers,
400 Commonwealth Drive, Warrendale, PA 15096

<35>

Argonne National Laboratory
ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439

TITLE: Development of Lithium/Metal Sulfide
Batteries at Argonne National Laboratory:
Summary Report for 1976

Report No. ANL-77-18, 34 p.
1977, March

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: LITHIUM/METAL SULFIDE BATTERIES; ENERGY
STORAGE; MATERIALS; ELECTRODES; ELECTRIC
UTILITIES; ELECTRIC VEHICLES;
LITHIUM-ALUMINUM/METAL SULFIDE BATTERIES;
DIAGRAMS
AVAILABILITY: NTIS

<36>

Argonne National Laboratory
ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439

TITLE: High-Performance Batteries for Stationary
Energy Storage and Electric-Vehicle
Propulsion. Progress Reports

Quarterly Progress Reports, v.p.

Quarterly
SPONSOR: Energy Research and Development
Administration; U.S. Dept. of Energy
KEYWORDS: ENERGY STORAGE; ELECTRIC VEHICLES;
BATTERIES; PERFORMANCE; COMMERCIALIZATION;
TESTING; MATERIALS; UTILIZATION
AVAILABILITY: NTIS

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Askia, A.B. (ed.); Kraft, J. (ed.)
Federal Energy Administration, National Impact
Division; Federal Energy Administration,
Office of Macroeconomic Impact Analysis
ADDRESS: Washington, DC
TITLE: Econometric Dimensions of Energy Demand
and Supply

127 p.
1976

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KEYWORDS: ENERGY DEMAND; ENERGY SUPPLIES;
ECONOMETRIC ANALYSIS; ENERGY POLICY;
GASOLINE; FOSSIL FUELS; ELECTRIC UTILITIES;
FORECASTING; PRICES; MODELS; SIMULATION;
TABLES (DATA); INDUSTRIES; AUTOMOBILES;
SALES; IMPORTS; INDUSTRIAL SECTOR; FUEL
CONSUMPTION; ELECTRIC POWER DEMAND;
RESIDENTIAL SECTOR
AVAILABILITY: Lexington Books, D.C. Heath and
Co., Lexington, MA \$13.00

<38>

Asselman, G.L.A.; Spigt, C.L.; Heijer, B.J.
Philips Research Laboratories
ADDRESS: Holland
TITLE: Design Considerations on a Thermal Energy
Storage Stirling Engine Automobile

Paper No. 770080, presented at the Society of
Automotive Engineers' International
Automotive Engineering Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 28-March 4, 1977, 16 p.

1977

SPONSOR: Society of Automotive Engineers
KEYWORDS: STIRLING ENGINES; THERMAL ENERGY
STORAGE EQUIPMENT; DESIGN; GRAPHS (CHARTS);
DIAGRAMS; PERFORMANCE; SALTS; HEAT PIPES;
FLUORIDES
AVAILABILITY: Society of Automotive Engineers,
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

<39>

Association of American Pipe Lines
ADDRESS: 1725 K Street NW, Washington, DC 20006
TITLE: Shifts in Petroleum Transportation: 1976

Annual report, 9 p.
1978, June 19

KEYWORDS: PETROLEUM; PIPELINE TRANSPORTATION;
PETROLEUM PRODUCTS; HISTORY; WATER
TRANSPORTATION; TRUCKS; RAIL TRANSPORTATION;
TONNAGE; STATISTICS; TABLES (DATA)

<40>

Association of American Railroads, Economics and
Finance Dept.
ADDRESS: 1920 L. Street NW, Washington, DC 20036
TITLE: Yearbook of Railroad Facts: 1978 Edition

Annual Report, 65 p.
1978

KEYWORDS: RAILROADS; ENERGY DEMAND; STATISTICS;
RAIL TRANSPORTATION; PASSENGER
TRANSPORTATION; CARGO TRANSPORTATION;
REVENUE; FINANCIAL DATA; CAPITAL COSTS;
EMPLOYMENT; INCOME; FUEL CONSUMPTION; TABLES
(DATA); EQUIPMENT; HISTORY; TONNAGE; MILEAGE;
MAINTENANCE

<41>

Association of American Railroads, Economics and
Finance Dept.
ADDRESS: Washington, DC 20036
TITLE: Indexes of Railroad Material Prices and
Wage Rates: Railroads of Class 1

Quarterly publication, Series QNPF, 4 p.
KEYWORDS: RAIL TRANSPORTATION; PRICES; MATERIALS;
WAGES; INDEXES (RATIOS); FUELS; REGIONAL
ANALYSIS; TABLES (DATA)

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Association of American Railroads, Economics and
Finance Dept.

ADDRESS: Washington, DC 20036

TITLE: Railroads and Their Operated Mileage in
the Several States As of December 31, 1974

62 p.

1975, December

KEYWORDS: RAILROADS; MILEAGE; REGIONAL ANALYSIS;
CANADA; MEXICO; TABLES (DATA); OPERATION;
STATE ANALYSIS

<43>

Association of American Railroads, Office of
Information and Public Affairs

ADDRESS: Washington, DC 20036

TITLE: Background Material for States

50 p.

1976, May

KEYWORDS: RAILROADS; REGIONAL ANALYSIS; CARGO
TRANSPORTATION; EMPLOYEES; TAXES;
COMMODITIES; MILEAGE; STATE ANALYSIS

<44>

Atomic Energy Commission, Assistant Administrator
for Conservation

ADDRESS: Washington, DC

TITLE: New Automotive Power Systems

Report No. TID-26753, 17 p. for Vol. I;

TID-26754, 65 p. for Vol. II; TID-26755, 37
p. for Vol. III

1974, November 11

KEYWORDS: AUTOMOBILES; RESEARCH; FUEL ECONOMY;
AUTOMOTIVE ENGINES; ELECTRIC VEHICLES; US
ERDA; FUEL CONSUMPTION
AVAILABILITY: NTIS

<45>

Avriel, H.

Stanford University, Dept. of Operations
Research, Systems Optimization Laboratory

ADDRESS: Stanford, CA

TITLE: Modeling Personal Consumption of Goods in
the PILOT Energy Model

Technical Report SOL 76-17, 31 p.

1976, August

SPONSOR: Energy Research and Development
Administration; Electric Power Research
Institute; Stanford University, Institute for
Energy Studies

KEYWORDS: ENERGY MODELS; INCOME; EXPENDITURES;
NATURAL GAS; COAL; PETROLEUM; ELECTRIC POWER
DEMAND; AGRICULTURE; FOOD; WHOLESALE TRADE;
RETAIL TRADE; LUMBER; APPLIANCES;
CONSTRUCTION; MACHINERY; GRAPHS (CHARTS);
TRANSPORTATION

<46>

Ayres, R.U.; Noble, S.

International Research and Technology Corp.

ADDRESS: Suite 600, 1225 Connecticut Avenue NW,
Washington, DC

TITLE: Economic Impact of Mass Production of
Alternative Low Emissions Automotive Power
Systems and Appendices

Report No. DOT-OS-20003 (Amended), IRT-287-R, V.P.
1973, March 6

SPONSOR: U.S. Dept. of Transportation
KEYWORDS: ECONOMIC ANALYSIS; AUTOMOTIVE

EMISSIONS; AUTOMOBILES; COSTS; AUTOMOTIVE
INDUSTRY; EMPLOYMENT; FUEL CONSUMPTION;
AUTOMOTIVE ENGINES; COMPARATIVE EVALUATIONS;
PRICES; DRIVING CYCLE; EMPLOYMENT; OWNERSHIP;
PETROLEUM INDUSTRY; MANUFACTURING; TABLES
(DATA); MODELS; DESIGN; POLLUTION REGULATIONS
AVAILABILITY: NTIS

<47>

Bader, C.; Plust, H.G.

Kanner (Leo) Associates

ADDRESS: Redwood City, CA 94063

TITLE: Electric Propulsion for Road Vehicles.
State of the Art and Problems

Report No. N76-14379, NASA TT F-16819, 27 p.;

translated from Elektrotechnische
Zeitschrift Ausg. A, 94 (11), 637-645

1975, December

KEYWORDS: ELECTRIC VEHICLES; BATTERIES; HYBRID
ELECTRIC-POWERED VEHICLES; PROPULSION; COSTS
AVAILABILITY: NTIS

<48>

Bader, C.; Stephan, W.

Deutsche Automobilgesellschaft

Forschungslaboratorium

ADDRESS: Germany

TITLE: Electric Vehicles in Germany - Present and
Future

Paper No. 780087, presented at the Society of

Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 12 p.

1978

KEYWORDS: ELECTRIC VEHICLES; GERMAN FEDERAL
REPUBLIC; ENERGY STORAGE; DRIVE TRAIN
SYSTEMS; PRICES; MAINTENANCE; HYBRID
ELECTRIC-POWERED VEHICLES; PHOTOGRAPHS;
DIAGNOSIS

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Balasubramanian, M.; Jenkins, R.

TRW Inc., Energy Systems Planning Division

ADDRESS: McLean, VA 22101

TITLE: Automotive Fuel Requirements with
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Report No. PA 3885-22-1, v.p.

1978, January

SPONSOR: U.S. Dept. of Energy, Office of Policy
and Evaluation

KEYWORDS: DIESEL ENGINES; AUTOMOTIVE FUELS;
PETROLEUM REFINERIES; FORECASTING; GASOLINE;
DIESEL FUELS; GRAPHS (CHARTS); PETROLEUM
REFINING; DISTILLATES; SUPPLY (ECONOMICS);
DEMAND (ECONOMICS)

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Balkus, K.

Florida State University

ADDRESS: Tallahassee, FL 32306

TITLE: Transportation Issues in Consumer
Motivation

Paper presented at the 52nd Annual Meeting of the
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Research Record No. 439, 1-9

1973

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SPONSOR: National Academy of Sciences, National Research Council, Highway Research Board
 KEYWORDS: CONSUMERS; TRANSPORTATION; ATTITUDES; HELP; METHOD; TABLES (DATA); QUESTIONNAIRES; MASS TRANSPORTATION
 AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$2.00 for Highway Research Record No. 439

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Banowitz, W.A.; Birtz, L.J.
 Automobile Club of Southern California
 ADDRESS: 2601 South Figueroa Street, Los Angeles, CA 90007
 TITLE: Field Evaluation of Miles-Per-Gallon Meters

Report No. PB-276646, DOT-TSC-OST-77-64, v.p. 1977, November

SPONSOR: U.S. Dept. of Transportation, Transportation Systems Center
 KEYWORDS: FUEL ECONOMY; FEEDBACK; MILEAGE; AUTOMOBILES; COMMUTING; TESTING; DRIVING CYCLE; COMPARATIVE EVALUATIONS; MEASURING INSTRUMENTS; AUTOMOBILE DRIVERS
 AVAILABILITY: NTIS

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Barrow, W.; Crawford, E.; Weinberg, H.
 Johns Hopkins University, Center for Metropolitan Planning and Research
 ADDRESS: Baltimore, MD 21218
 TITLE: The Outlook for Automotive Fuel Supplies and Alternative Vehicle Engines, 1985-2010: Implications for Transportation and State Tax Structures

167 p.
 1978, May

SPONSOR: Maryland Dept. of Transportation
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 Mobil Research and Development Corp.
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1977
 SPONSOR: Society of Automotive Engineers
 KEYWORDS: AUTOMOBILES; DEMAND (ECONOMICS); DIESEL FUELS; PETROLEUM REFINING; COMPARATIVE EVALUATIONS; GASOLINE; FUEL ECONOMY; PERFORMANCE; AUTOMOTIVE EMISSIONS
 AVAILABILITY: Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA 15096

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Basile, P.S. (ed.)
 Massachusetts Institute of Technology, Workshop on Alternative Energy Strategies (WAES)
 ADDRESS: Cambridge, MA 02139

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TITLE: Energy Supply-Demand Integrations to the Year 2000: Global and National Studies

Third Technical Report of the Workshop on Alternative Energy Strategies (WAES), 720 p. 1977

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 KEYWORDS: ITALY; JAPAN; MEXICO; NETHERLANDS; NORWAY; SWEDEN; UNITED KINGDOM; UNITED STATES; EUROPE; MODELS; INTERNATIONAL ANALYSIS; ENERGY SUPPLIES; ENERGY DEMAND; FORECASTING; ENERGY BALANCE; ENERGY CONSUMPTION; PRICES; GROWTH; TRANSPORTATION; RESIDENTIAL SECTOR; COMMERCIAL SECTOR; INDUSTRIAL SECTOR; INDUSTRIES; FUELS; TABLES (DATA); INTERNATIONAL TRADE; IMPORTS; EXPORTS; GROSS NATIONAL PRODUCT; CANADA; DENMARK; FINLAND; FRANCE; GERMAN FEDERAL REPUBLIC
 AVAILABILITY: MIT Press, Cambridge, MA 02139 \$30.00

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Bayler, T.; Eder, L.
 U.S. Dept. of Transportation, National Highway Traffic Safety Administration
 ADDRESS: Washington, DC
 TITLE: Impact of Diagnostic Inspection on Automotive Fuel Economy and Emissions

Paper No. 780028, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - March 3, 1978, 9 p.

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 AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

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 Wisconsin, University of, Engineering Experiment Station
 ADDRESS: 1500 Johnson Drive, Madison, WI 53706
 TITLE: Increased Fuel Economy in Transportation Systems by Use of Energy Management - Third Year's Program

Report No. PB-269607, DOT-TST-77-21, 63 p. 1976, July

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of University Research
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 AVAILABILITY: NTIS

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Bechtold, R.L.
 U.S. Dept. of Energy, Bartlesville Energy Research Center
 ADDRESS: Bartlesville, OK 74003
 TITLE: An Investigative Study of Engine Limiting

Report No. BERC/RI-77/13, 19 p.

1978, February
 KEYWORDS: ENGINES; FUEL CONSUMPTION; GRAPHS (CHARTS); AUTOMOTIVE EMISSIONS; EFFICIENCY; TESTING; CYLINDERS; TABLES (DATA); FUEL ECONOMY; VELOCITY
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 U.S. Dept. of Energy, Bartlesville Energy
 Research Center
 ADDRESS: Bartlesville, OK
 TITLE: Performance of Gasoline and Diesel Fuels
 Produced from Coed Syncrude

Report No. BERC/RI-78/2, 22 p.
 1978, June

KEYWORDS: GASOLINE; DIESEL FUELS; PERFORMANCE;
 SYNTHETIC FUELS; ALTERNATE FUELS; SPARK
 IGNITION ENGINES; STIRLING ENGINES;
 STRATIFIED CHARGE ENGINES; COMPARATIVE
 EVALUATIONS; TESTING; GRAPHS (CHARTS); TABLES
 (DATA); AUTOMOTIVE EMISSIONS
 AVAILABILITY: NTIS

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Bechtold, R.L.; Marshall, W.F.
 Energy Research and Development Administration,
 Bartlesville Energy Research Center
 ADDRESS: Bartlesville, OK
 TITLE: Valve Timing--Its Effect on Emissions and
 Fuel Economy

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 1977, August

KEYWORDS: FUEL ECONOMY; FUEL CONSUMPTION;
 AUTOMOTIVE EMISSIONS; TABLES (DATA); GRAPHS
 (CHARTS); PERFORMANCE; POLLUTION CONTROL
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 AUTOMOTIVE EMISSION CONTROL
 AVAILABILITY: NTIS

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Traffic Quarterly, 30(3), 471-483
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 TRANSPORTATION; MARKET; SURVEYS; VEHICLE
 TRIPS; SOCIO-ECONOMIC FACTORS; PORTLAND
 (OREGON); INCOME; FAMILY LIFE; TRANSPORTATION
 MODE CHOICE

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Beglinger, R.E.; Behaan, J.
 Marquette University, Urban Transportation Program
 ADDRESS: Milwaukee, WI 53233
 TITLE: Effect of Energy Shortage and Land Use on
 Automobile Occupancy Rate

Report No. PB-254921, URTA-WI-11-0002-75-1, 39 p.
 1975, June

SPONSOR: U.S. Dept. of Transportation, Urban Mass
 Transportation Administration
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 AUTOMOBILES; AUTOMOBILE OCCUPANCY; HIGHWAY
 TRANSPORTATION; PRICES; GASOLINE;
 AVAILABILITY: NAPS; GRAPHS (CHARTS); TABLES
 (DATA)
 AVAILABILITY: NTIS

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Behling, D.J., Jr.
 Brookhaven National Laboratory, National Center
 for Analysis of Energy Systems, Economic
 Analysis Division
 ADDRESS: Upton, NY 11973

TITLE: Analysis of Past and Expected Future
 Trends in U.S. Energy Consumption, 1947-2000

Report No. BNL-50725, 69 p.
 1977, February

SPONSOR: U.S. Dept. of Energy, Office of Planning
 and Analysis

KEYWORDS: ENERGY CONSUMPTION; INDUSTRIAL SECTOR;
 FORECASTING; HISTORY; PRICES; MODELS; FUELS;
 GROWTH; TRANSPORTATION; RESIDENTIAL SECTOR;
 ENERGY ANALYSIS; AGRICULTURE; ENERGY
 CONSERVATION; FUEL CONSUMPTION; GOVERNMENT
 POLICIES; AUTOMOTIVE INDUSTRY
 AVAILABILITY: NTIS

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Behrin, E.; Folger, J.; Hudson, C.L.; O'Connell,
 L.G.; Rubin, B.; Schwartz, M.W.; Waide, C.R.;
 Walsh, W.J.
 Lawrence Berkeley Laboratory; Interplan Corp.;
 Brookhaven National Laboratory; Argonne
 National Laboratory

TITLE: Energy Storage Systems for Automobile
 Propulsion. Volume 1. Overview and Findings

Report No. UCRL-52303, 55 p.
 1977, December 15

SPONSOR: U.S. Dept. of Energy
 KEYWORDS: ELECTRIC VEHICLES; HYBRID
 ELECTRIC-POWERED VEHICLES; ENERGY STORAGE;
 PERFORMANCE; COSTS; ENVIRONMENTAL IMPACT;
 TABLES (DATA); PROPULSION; BATTERIES;
 AUTOMOTIVE ENGINES; GRAPHS (CHARTS);
 AUTOMOBILES; COMMERCIALIZATION
 AVAILABILITY: NTIS

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Belloso, S.J.; Dial, R.B.; Voorhees, A.H.
 Voorhees (Alan H.) and Associates Inc.
 ADDRESS: McLean, VA 22101
 TITLE: Factors, Trends, and Guidelines Related to
 Trip Length

National Cooperative Highway Research Program
 Report 89, 59 p.

1970

SPONSOR: American Association of State Highway
 Officials; U.S. Bureau of Public Roads;
 National Academy of Sciences; National
 Research Council, Highway Research Board

KEYWORDS: GRAPHS (CHARTS); TABLES (DATA); NAPS;
 VEHICLE TRIPS; TRAFFIC; URBAN AREAS; LAND
 USE; TRANSPORTATION SYSTEMS; URBAN
 TRANSPORTATION; PLANNING; SIOUX CITY (IOWA);
 READING (PENNSYLVANIA); DETROIT (MICHIGAN);
 AUTOMOBILES; MASS TRANSPORTATION
 AVAILABILITY: National Academy of Sciences,
 Highway Research Board, 2101 Constitution
 Ave. NW, Washington, DC 20418 \$3.20

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Belloso, S.J.; Mehra, J.J.
 Voorhees (Alan H.) and Associates Inc.
 ADDRESS: 7600 Old Springhouse Road, McLean, VA
 22101

TITLE: Statewide Travel Forecasting Procedures
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Report No. PB-252611, 126 p.
 1974, August

SPONSOR: U.S. Dept. of Transportation, Federal
 Highway Administration, Office of Highway
 Planning, Program Management Division

KEYWORDS: WEEKEND TRAVEL; VEHICLE TRIPS;
 CONNECTICUT; RECREATIONAL TRAVEL; STOCHASTIC
 PROCESSES; SIMULATION; MODELS; LIFE STYLE;
 DISTRIBUTION; LAND USE; FORECASTING; TABLES

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(DATA); GRAPHS (CHARTS)
AVAILABILITY: NTIS

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Ben-Akiva, M.; Lerman, S.R.
Massachusetts Institute of Technology, Dept. of
Civil Engineering, Transportation Systems
Division
ADDRESS: Cambridge, MA 02139
TITLE: Use of Forecasting Models in
Transportation Planning

Paper presented at a conference at Oak Ridge,
Tennessee, May 5-6, 1975, published in the
proceedings, Population Forecasting for Small
Areas (Report No. CONF-750514), 73-82

1977
KEYWORDS: FORECASTING; MODELS; TRANSPORTATION;
PLANNING; URBAN TRANSPORTATION; DEMAND
(ECONOMICS); GOVERNMENT POLICIES; RESEARCH
AVAILABILITY: Oak Ridge Associated Universities,
P.O. Box 117, Oak Ridge, TN 37830 for entire
proceedings

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Bernard, M.J.; LaBelle, S.J.; Hillar, M.;
Walbridge, E.W.
Argonne National Laboratory, Energy and
Environmental Systems Division
ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439
TITLE: Transportation Energy Scenario Analysis
Technical Report No. 1: Examination of Four
Existing Scenarios

Informal Report, Report No. ANL/EES-TN-1
1976, March
SPONSOR: U.S. Dept. of Energy, Transportation
Energy Conservation Division, Data Analysis
Branch
KEYWORDS: FORECASTING; TRANSPORTATION SYSTEMS;
LIFE STYLE; ELECTRIC VEHICLES; MODELS;
SOCIO-ECONOMIC FACTORS; US DOE; TECHNOLOGY;
POPULATION GROWTH; ENERGY SHORTAGES; ECONOMIC
ANALYSIS; AUTOMOBILES; OWNERSHIP; ENERGY
CONSUMPTION; GRAPHS (CHARTS); GASOLINE;
VEHICLE MILES TRAVELED; GOVERNMENT POLICIES;
CARGO TRANSPORTATION
AVAILABILITY: NTIS

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Bernhardt, W. (chairman)
Volkswagenwerk AG
TITLE: Proceedings: International Symposium on
Alcohol Fuel Technology - Methanol and Ethanol
Report No. CONF-771175, proceedings of conference
held November 21-23, 1977, Wolfsburg, Federal
Republic of Germany, English translation
published by U.S. Dept. of Energy, Division
of Transportation Energy Conservation, v.p.
1978, July
SPONSOR: German Federal Ministry for Research and
Technology (BMPT)
KEYWORDS: ALTERNATE FUELS; ETHANOL; METHANOL;
AUTOMOTIVE ENGINES; PRODUCTION; ECONOMIC
ANALYSIS; COMPARATIVE EVALUATIONS; TOXICITY;
ALCOHOL FUELS; UTILIZATION; DIESEL ENGINES;
TECHNOLOGY ASSESSMENT; INTERNAL COMBUSTION
ENGINES; DESIGN; MARKET; GRAPHS (CHARTS)
AVAILABILITY: NTIS

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Bigelow, C.D.
Bigelow and Associates
TITLE: Integrated Economic-Social-Environmental
Planning

Paper presented at the 54th Annual Meeting of the
Transportation Research Board, published in
Transportation Research Record 565, 25-32
1976

SPONSOR: National Academy of Sciences,
Transportation Research Board
KEYWORDS: SOCIO-ECONOMIC FACTORS; ENVIRONMENTAL
IMPACT; TRANSPORTATION SYSTEMS; PLANNING;
GOVERNMENT POLICIES; LAND USE; CITIZENS GROUPS
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$6.00 for Transportation Research Record No.
565

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Billing, J.R.; Grouni, H.N.; Vuchic, V.R.
Ontario Ministry of Transportation and
Communications, Research and Development
Division; Pennsylvania, University of, Dept.
of Engineering
ADDRESS: OMTC, Ontario, Canada; UP, Philadelphia,
PA
TITLE: Design of Elevated Guideway Structures for
Light Rail Transit (Abridgment) (Discussion)

Paper published in Transportation Research Record
627, 17-21 (Discussion p. 20)

1977
SPONSOR: National Academy of Sciences,
Transportation Research Board
KEYWORDS: RAPID TRANSIT SYSTEMS; DESIGN;
RIGHT-OF-WAY; PERFORMANCE; ELEVATED GUIDEWAYS
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.20 for Transportation Research Record 627

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Biras, E.W.; Yeh, J.W.
Lawrence Livermore Laboratory
ADDRESS: California Univ., Livermore, CA
TITLE: Transportation-Related Data Bases
Extracted from the National Index of Energy
and Environmental Data Bases. Part I:
Digest of Detailed Data Base Descriptions.
Part II: Detailed Data Base Descriptions

Report No. UCID-17316 (Pt. 1), 133 p. for Part I;
Report No. UCID-17316 (Pt. 2), 277 p. for Part
II

1976, November
SPONSOR: Energy Research and Development
Administration; U.S. Dept. of Transportation,
Transportation Systems Center, Information
Division
KEYWORDS: TRANSPORTATION; DATA BASES; ABSTRACTS;
BIBLIOGRAPHIES; ENERGY MODELS; SURVEYS
AVAILABILITY: NTIS

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Bisselle, C.A.
Nitro Corp.
ADDRESS: McLean, VA 22101
TITLE: A Preliminary Assessment of Empty Miles
Traveled by Selected Regulated Motor Carriers

Report No. MTR-7081, 115 p.
1976, January

SPONSOR: Interstate Commerce Commission
KEYWORDS: CARGO TRANSPORTATION; PETROLEUM
PRODUCTS; FUEL CONSUMPTION; TRUCKS; HOUSEHOLD

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GOODS: TABLES (DATA)

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Bjerklie, J.W.; Cairns, E.J.; Tobias, C.W.;
Wilson, D.G.Hague International; Argonne National Laboratory;
California, University of; Massachusetts
Institute of TechnologyADDRESS: HI, The Hague, Netherlands; ANL, 9700
South Cass Avenue, Argonne, IL 60439; CO,
Berkeley, CA 94720; MIT, Cambridge, MA 02139
TITLE: An Evaluation of Alternative Power Sources
for Low-Emission AutomobilesPaper No. 750929, presented at the Society of
Automotive Engineers' Automobile Engineering
Meeting, Detroit, Michigan, October 13-17,
1975, 18 p.

1975

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KEYWORDS: AUTOMOTIVE EMISSIONS; ENGINES;
ALTERNATE FUELS; GAS TURBINE ENGINES; RANKINE
CYCLE ENGINES; STIRLING ENGINES; ELECTRIC
VEHICLES; GRAPHS (CHARTS); COSTS; COMPARATIVE
EVALUATIONSAVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

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Blomquist, A.P.; Nikel, S.A.
Chrysler Corp.

ADDRESS: Detroit, MI

TITLE: The 1978 Chrysler Torque Converter Lock-Up
ClutchPaper No. 780100, presented at the Society of
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Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 9 p.

1978

KEYWORDS: AUTOMOTIVE ENGINEERING; FUEL ECONOMY;
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PHOTOGRAPHSAVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Sohit, E.J.; Hornkohl, C.; Dunlap, J.R.
Sohit Publishing Co., Research Dept.
ADDRESS: 2500 Artesia Boulevard, Redondo Beach,
CA 90278TITLE: Report on the Aspects of Automotive Fleet
Operations on Transportation Energy
ConservationReport No. ORNL/Sub 77/1426/1, v.p.
1977, August 8SPONSOR: Energy Research and Development
Administration; Oak Ridge National LaboratoryKEYWORDS: AUTOMOTIVE FLEETS; LEASING; TRUCKS;
MILEAGE; RETAIL TRADE; FORECASTING; OPERATING
COSTS; MAINTENANCE; REPAIR; ELECTRIC
VEHICLES; INSURANCE; TAXES; AUTOMOTIVE
ENGINES; STATISTICS; OWNERSHIP; AUTOMOBILES;
FUEL ECONOMY; TABLES (DATA); VEHICLE
REGISTRATIONS

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Foles, P.B.
U.S. Dept. of Agriculture, Economic Research
Service, National Economic Analysis DivisionADDRESS: Washington, DC 20250
TITLE: Cost of Operating Refrigerated Trucks for
Hauling Fresh Fruits and VegetablesReport No. PB-270625, AGERS-32, 26 p.
1977, JulyKEYWORDS: CARGO TRANSPORTATION; RATES (COSTS);
TRUCKS; REFRIGERATION; FRUITS; CALIFORNIA;
FLORIDA; TEXAS; TABLES (DATA); VEGETABLES;
COSTS

AVAILABILITY: NTIS

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Bolger, J.G.; Epps, R.C.; Jansen, J.P.; Miller,
A.E.; O'Connell, L.G.
Lawrence Livermore Laboratory; Lawrence Berkeley
LaboratoryADDRESS: LLL, University of California,
Livermore, CA 94550; LBL, Berkeley, CA 94720
TITLE: Application of Energy Storage Power
Systems to Nonhighway TransportationReport No. UCRL-52333, 50 p.
1977, MaySPONSOR: Energy Research and Development
AdministrationKEYWORDS: TRANSPORTATION; ENERGY STORAGE; ENERGY
CONSUMPTION; RAIL TRANSPORTATION; RAPID
TRANSIT SYSTEMS; BATTERIES; DEVELOPMENT;
FLYWHEELS; GRAPHS (CHARTS); TABLES (DATA);
AVIATION; MARINE TRANSPORTATION; PIPELINES
AVAILABILITY: NTIS

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Bolger, J.G.; Kirsten, F.A.
Lawrence Berkeley Laboratory
ADDRESS: University of California, Berkeley, CA
TITLE: Investigation of the Feasibility of a Dual
Mode Electric Transportation SystemReport No. LBL-6301, 159 p.
1977, MaySPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy ConservationKEYWORDS: HIGHWAY TRANSPORTATION; TRANSPORTATION
SYSTEMS; ELECTRIC VEHICLES; ENERGY STORAGE;
DUAL MODE ELECTRIC TRANSPORTATION SYSTEM;
TABLES (DATA); DESIGN; MAGNETIC FIELDS;
GRAPHS (CHARTS); CALIFORNIA; COSTS; ALTERNATE
FUELS; COMPARATIVE EVALUATIONS; SAFETY
AVAILABILITY: NTIS

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Bolger, J.G.; Ng, L.S.; Green, M.I.; Wallace, R.J.
Lawrence Berkeley Laboratory
ADDRESS: University of California, Berkeley, CA
TITLE: Test of the Performance and
Characteristics of a Prototype Inductive
Power Coupling for Electric Highway SystemsReport No. LBL-7522, 74 p.
1978, JulySPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: PERFORMANCE; TESTING; DESIGN; ELECTRIC
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ELECTRIC HIGHWAY SYSTEMS; COUPLINGS; BATTERIES
AVAILABILITY: NTIS

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Bolis, D.A.; Johnson, W.H.; Callen, R.
Michigan Technological University
ADDRESS: Houghton, MI

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TITLE: A Study of the Effect of Oil and Coolant Temperatures on Diesel Engine Brake Specific Fuel Consumption

Paper No. 770313, presented at the Society of Automotive Engineers International Congress and Exposition, Cobo Hall, Detroit, Michigan, February 28-March 4, 1977, 12 p.

1977

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KEYWORDS: DIESEL ENGINES; FUEL CONSUMPTION; COOLANTS; OILS; TEMPERATURE; GRAPHS (CHARTS); TESTING

AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096

Transbus Document TR 77-003, 286 p.

1977, December

SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration, Bus Projects Division

KEYWORDS: TRANSBUS; BUSES (VEHICLES); DESIGN; ENGINEERING; TESTING; PRODUCTION; SAFETY; PASSENGER TRANSPORTATION; HUMAN COMFORT; OPERATION; TRANSPORTATION DISADVANTAGED; TABLES (DATA); MANUFACTURERS; PHOTOGRAPHS; GRAPHS (CHARTS); DIAGRAMS

AVAILABILITY: NTIS

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Booz, Allen Applied Research Inc.

ADDRESS: 4733 Bethesda Avenue, Bethesda, MD 20014

TITLE: Transbus: Technical Data

Report No. UMTRA-IT-06-0025-74-1, TR-74-008, 38 p. 1974, November

SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration, Bus Projects Division

KEYWORDS: BUSES (VEHICLES); DESIGN; DIAGRAMS; PHOTOGRAPHS; PASSENGER TRANSPORTATION; SPECIFICATIONS; TRANSBUS; CHARACTERISTICS

AVAILABILITY: NTIS

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Bon, R.

Massachusetts Institute of Technology, Dept. of Urban Studies and Planning

ADDRESS: Cambridge, MA 02139

TITLE: Some Conditions of Macroeconomic Stability in Multiregional Models

Report No. PB-259477, DOT-TST-76-61, 60 p.

1975, September

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of University Research

KEYWORDS: INPUT-OUTPUT ANALYSIS; MODELS; COMPARATIVE EVALUATIONS; REGIONAL ANALYSIS; TRANSPORTATION; TRADE; COMMODITIES; ECONOMICS

AVAILABILITY: NTIS

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Boretzky, M.

U.S. Dept. of Commerce

ADDRESS: Washington, DC

TITLE: Opportunities and Strategies for Energy Conservation

Technology Review, 79(8), 57-62

1977, July/August

KEYWORDS: ENERGY CONSERVATION; ENERGY CONSUMPTION; GROSS NATIONAL PRODUCT; INDUSTRIAL SECTOR; PRODUCTION; TRANSPORTATION; ENERGY SOURCES; COMPARATIVE EVALUATIONS; RESIDENTIAL SECTOR; EFFICIENCY; ELASTICITY (ECONOMICS); PRICES; ENERGY DEMAND; AUTOMOBILES; LIFE STYLE; UNITED KINGDOM; FRANCE; GERMAN FEDERAL REPUBLIC; NETHERLANDS; BELGIUM; NORWAY; SWEDEN; ITALY; JAPAN

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Booz, Allen & Hamilton Inc.

ADDRESS: 4330 East West Hwy., Bethesda, MD 20014

TITLE: Energy Use in the Marine Transportation Industry. Volume IV: Task III-Efficiency Improvements, Task IV-Industry Future

Final Report, Volume IV, v.p.

1977, December

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation, Non-Highway Transport Systems

KEYWORDS: ENERGY CONSUMPTION; MARINE TRANSPORTATION; FORECASTING; CARGO TRANSPORTATION; GREAT LAKES; WATER TRANSPORTATION; WATERWAY TRANSPORTATION; COASTAL REGIONS; RECREATION VEHICLES; FISHING INDUSTRY; FUEL CONSUMPTION; TABLES (DATA)

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Braun, R.P.; Podolske, R.C.

Barton-Aschman Associates Inc.

TITLE: Integrating Land Use and Transportation Planning in Rebuilding City Centers: An Examination of Cedar-Riverside in Minneapolis

Paper presented at the 54th Annual Meeting of the Transportation Research Board, published in Transportation Research Record 565, 33-46

1976

SPONSOR: National Academy of Sciences, Transportation Research Board

KEYWORDS: LAND USE; PLANNING; TRANSPORTATION SYSTEMS; URBAN AREAS; TRAFFIC CONTROL; VEHICLE PARKING

AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$6.00 for Transportation Research Record No. 565

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Booz, Allen & Hamilton Inc., National Analysts

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22 p.

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Booz, Allen & Hamilton Inc., Transportation

Consulting Division

ADDRESS: 4330 East-West Highway, Bethesda, MD

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TITLE: Transbus Engineering Test Program

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Brennand, J.

General Research Corp.

ADDRESS: Santa Barbara, CA

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 TITLE: Electric and Hybrid Vehicle Performance and Design Goal Determination Study

Report No. SAW/1215-1, SRC Publication No. CR-1-734, 197 p.

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BRI Systems Inc.
 ADDRESS: Phoenix, AR 85068
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SPONSOR: U.S. Dept. of Transportation
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 ADDRESS: Phoenix, AR 85068
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 Publication Series No. 4, 7 p.

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SPONSOR: U.S. Dept. of Transportation
 KEYWORDS: PASSENGER TRANSPORTATION; BUSES (VEHICLES); FUEL ECONOMY; OPERATING COSTS; PLANNING
 AVAILABILITY: U.S. Dept. of Energy, Voluntary Truck and Bus Fuel Economy Program, Washington, DC 20461

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BRI Systems Inc.

ADDRESS: Phoenix, AR 85068
 TITLE: Fuel Economy through Teamwork: Driving for Fuel Economy

Energy Savings in School Transportation
 Publication Series No. 3, 3 p.

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SPONSOR: U.S. Dept. of Transportation
 KEYWORDS: PASSENGER TRANSPORTATION; BUSES (VEHICLES); MILEAGE; FUEL ECONOMY
 AVAILABILITY: U.S. Dept. of Energy, Voluntary Truck and Bus Fuel Economy Program, Washington, DC 20461

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 ADDRESS: Phoenix, AR 85068
 TITLE: Fuel Economy through Teamwork: Purchasing for Fuel Economy

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SPONSOR: U.S. Dept. of Transportation
 KEYWORDS: PASSENGER TRANSPORTATION; BUSES (VEHICLES); FUEL ECONOMY; PURCHASING
 AVAILABILITY: U.S. Dept. of Energy, Voluntary Truck and Bus Fuel Economy Program, Washington, DC 20461

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AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096

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 TITLE: Urban Data Book. Volume I. Urban Data: Atlanta - Miami. Volume II. Urban Data: Milwaukee - Washington, Notes and Technical Appendixes

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KEYWORDS: REGIONAL ANALYSIS; POPULATION (STATISTICS); EMPLOYMENT; SOCIO-ECONOMIC FACTORS; GRAPHS (CHARTS); TABLES (DATA); URBAN AREAS; COMMUTING; AGE GROUPS; INCOME; SEX; AUTOMOBILES; OWNERS; HOUSING
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AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$2.70 for Transportation Research Record 626

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 ADDRESS: Berkeley, CA
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Bullard, C.W.; Penner, P.S.; Pilati, D.A.
 Illinois, University of, Center for Advanced

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 ADDRESS: Urbana, IL 61801
 TITLE: Energy Analysis: Handbook for Combining Process and Input-Output Analysis

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SPONSOR: Energy Research and Development Administration, Assistant Administrator for Planning Analysis and Evaluation

KEYWORDS: INPUT-OUTPUT ANALYSIS; ENERGY CONSUMPTION; ENERGY INTENSITY; ENERGY FLOW; ENERGY MODELS; ANALYTICAL METHODS; TABLES (DATA); SYSTEMS ANALYSIS; PRODUCTION

AVAILABILITY: NTIS

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 ADDRESS: College Station, TX

TITLE: Analyses of the National Energy Plan: The Effects on Transportation

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KEYWORDS: NATIONAL ENERGY PLAN; TRANSPORTATION; TEXAS; GASOLINE; TAXES; SPEED LIMITS; ENERGY CONSUMPTION; FUEL ECONOMY; ENERGY CONSERVATION; PRICES; GOVERNMENT POLICIES; STANDARDS; TABLES (DATA); FORECASTING; AVIATION FUELS; COAL; BUSES (VEHICLES); TRUCKS; STATE ANALYSIS

AVAILABILITY: Center for Energy and Mineral Resources, Texas A&M University, College Station, TX

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 General Motors Corp., Research Laboratories, Transportation and Urban Analysis Dept.
 ADDRESS: Warren, MI 48090
 TITLE: The Role of Accessibility in Basic Transportation Choice Behavior

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KEYWORDS: PASSENGER TRANSPORTATION; AUTOMOBILES; DRIVING CYCLE; TRAVEL TIME; BENEFIT COST ANALYSIS; TABLES (DATA); POPULATION (STATISTICS); EMPLOYMENT; OCCUPATIONS; MIXED-NODE TRANSIT; TRANSPORTATION MODE CHOICE; MODELS

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 Georgia Institute of Technology, School of Civil Engineering; Clemson University, Dept. of

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 ADDRESS: GIT, Atlanta, GA 30332; CU, Clemson, SC 29634; USDOT, Washington, DC
 TITLE: Conference Report: Energy Conservation in Transportation and Construction

Report No. PB-255857, FHWA-NHI-76-N001, conference held on December 2-5, 1975, Atlanta, Georgia, 288 p.
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KEYWORDS: ENERGY CONSERVATION; TRANSPORTATION; CONSTRUCTION; CONFERENCES; ENERGY CONSUMPTION; PUBLIC TRANSPORTATION; RAIL TRANSPORTATION; EFFICIENCY; ENERGY SUPPLIES; ENERGY POLICY; TABLES (DATA); GRAPHS (CHARTS); COSTS; DESIGN; HIGHWAY TRANSPORTATION
 AVAILABILITY: NTIS

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Buhl, J.D.; Turner, L.R.
 U.S. Dept. of Defense, Army Materiel Development and Readiness Command, Foreign Science and Technology Center
 ADDRESS: Washington, DC 20301
 TITLE: Electric Vehicle Research, Development, and Technology-Foreign (U)

Report No. AD/A-040526, DST-18505-403-77, 196 p.
 1977, January

KEYWORDS: ELECTRIC VEHICLES; RESEARCH PROGRAMS; INTERNATIONAL ANALYSIS; HYBRID ELECTRIC-POWERED VEHICLES; BATTERIES; AUTOMOTIVE TRANSMISSIONS; DESIGN; UTILIZATION; MILITARY EQUIPMENT; FORECASTING
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 TITLE: Monthly Petroleum Product Price Report

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 Tennessee, University of, Transportation Center
 ADDRESS: Knoxville, TN
 TITLE: Institutional Issues in Urban Freight Consolidation

Report No. TC 76-035, 46 p.
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KEYWORDS: URBAN TRANSPORTATION; CARGO TRANSPORTATION; ECONOMIC IMPACT; BENEFIT RISK ANALYSIS; TABLES (DATA); PLANNING; INDUSTRIES; GOVERNMENT POLICIES; DISTRIBUTION; SERVICES; TRUCKS; PROFITS; EFFICIENCY

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Cashbridge Systematics Inc.
 ADDRESS: Kendall Square Bldg., 238 Main St., Cambridge, MA 02142
 TITLE: State Energy Conservation Plans: Guidelines for Travel Demand Analyses of Program Measures to Promote Carpools, Vanpools, and Public Transportation

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SPONSOR: Federal Energy Administration, Office of Policy and Program Evaluation, Office of Conservation Policy; Federal Energy Administration, Office of Energy Conservation and Environment
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 AVAILABILITY: NTIS

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Campbell, E.A.
 Electric Vehicle Council
 ADDRESS: 90 Park Ave., New York, NY 10016
 TITLE: Impact of a Future Population of Electric Vehicles on the Electric Power Industry

Paper presented at the Fourth International Electric Vehicle Symposium, held in Dusseldorf, Germany, August 31 - September 2, 1976, 12 p.

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 ADDRESS: 90 Park Avenue, New York, NY 10016
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 AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096

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Campbell, K.; Scott, R.; Tolkin, S.
 Michigan, University of, Highway Safety Research Institute
 ADDRESS: Ann Arbor, MI 48105
 TITLE: Highway Safety Effects of the Energy Crisis on U.S. Toll Roads

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 1976, June
 SPONSOR: U.S. Dept. of Transportation, National Highway Traffic Safety Administration
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 VEHICLE MILES TRAVELED; TABLES (DATA); STATE
 ANALYSIS
 AVAILABILITY: NTIS

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 Carr, E.S.; Harsch, W.C., Jr.; Erisman, L.R.;
 Judd, D.
 Eagle-Picher Industries Inc.
 ADDRESS: Joplin, MO
 TITLE: Near-Term Advanced Electric Vehicle
 Batteries

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1976, September
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 PERFORMANCE
 AVAILABILITY: Electric Vehicle Council, 90 Park
 Ave., New York, NY 10016 \$1.50

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 Brookhaven National Laboratory, National Center
 for Analysis of Energy Systems, Policy
 Analysis Division; State University of New
 York, Institute for Energy Research
 ADDRESS: BNL, Upton, NY 11973; SUNY, Stony
 Brook, NY 11790
 TITLE: Land Use - Energy Simulation Model: A
 Computer-Based Model for Exploring Land Use
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 SPONSOR: Federal Energy Administration, Office of
 Energy Conservation and Environment
 KEYWORDS: ENERGY MODELS; COMPUTERIZED SIMULATION;
 LAND USE; RESIDENTIAL SECTOR; TRANSPORTATION;
 INDUSTRIAL SECTOR; ENERGY DEMAND; REGIONAL
 ANALYSIS; NEW YORK; SUBURBAN AREAS
 AVAILABILITY: NTIS

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 E.
 Brookhaven National Laboratory, National Center
 for Analysis of Energy Systems, Policy
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 York, Institute for Energy Research
 ADDRESS: BNL, Upton, NY 11973; SUNY, Stony
 Brook, NY 11790
 TITLE: The Planner's Energy Workshop: A Manual
 for Exploring Relationships Between Land Use
 and Energy Utilization

Report No. BNL 50633, 132 p.
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 SPONSOR: Federal Energy Administration, Office of
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 CONSERVATION; TUSCON (ARIZONA); LONG ISLAND
 (NEW YORK); RESIDENTIAL SECTOR; COMMERCIAL
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 INTENSITY; REGIONAL ANALYSIS; COMMUNITIES;
 TABLES (DATA)
 AVAILABILITY: NTIS

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 ADDRESS: Washington, DC
 TITLE: Highway and Transit Programs: Message to
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 KEYWORDS: HIGHWAYS; MASS TRANSPORTATION;
 LEGISLATION; GOVERNMENT POLICIES;
 CONSTRUCTION; PLANNING; FUNDING; RURAL
 TRANSPORTATION; URBAN TRANSPORTATION; SAFETY;
 STATE GOVERNMENT; LOCAL GOVERNMENT

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 Cataldo, R.L.
 National Aeronautics and Space Administration,
 Lewis Research Center
 ADDRESS: Cleveland, OH 44135
 TITLE: Response of Lead-Acid Batteries to
 Chopper-Controlled Discharge: Preliminary
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 Transportation Energy Conservation
 KEYWORDS: LEAD-ACID BATTERIES; SIMULATION;
 ELECTRIC VEHICLES; VELOCITY; CONTROL;
 ELECTRIC DISCHARGES; CAPACITY; DESIGN; ENERGY
 LOSSES
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 ADDRESS: Washington, DC
 TITLE: Demand for Gasoline: Application of
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 ELASTICITY (ECONOMICS); FORECASTING; TAXES;
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 Ceppos, R.

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MILEAGE; TESTING; WEIGHT; AUTOMOBILES;
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LaboratoryADDRESS: DOE, Washington, DC; LLL, University of
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TransportationKEYWORDS: FLYWHEELS; UTILIZATION; TRANSPORTATION;
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ENERGY STORAGE; ELECTRIC VEHICLES; TESTING;
TECHNOLOGY ASSESSMENT; MATERIALS;
COMMERCIALIZATION; DIAGRAMS; COSTS; GRAPHS
(CHARTS); COMPARATIVE EVALUATIONS; TABLES
(DATA)

AVAILABILITY: NTIS

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Chang, M.C.

Airesearch Manufacturing Co.

ADDRESS: Torrance, CA

TITLE: Computer Simulation of an Advanced Hybrid
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CONVERSION; GRAPHS (CHARTS)AVAILABILITY: Society of Automotive Engineers
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ADDRESS: 1050 Massachusetts Ave., Cambridge, MA
02138TITLE: Methodology for Predicting the Demand for
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1977, December

SPONSOR: Electric Power Research Institute

KEYWORDS: ENERGY CONSUMPTION; FORECASTING;
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CONSUMERS; MARKET; HEAT PUMPS; AUTOMOBILES;
ATTITUDES; IMPORTS; PRICESAVAILABILITY: Electric Power Research Institute,
3812 Hillview Avenue, Palo Alto, CA 94304

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Vehicles: Literature ReviewInterim Report No. 2, Report No. CRA 389, v.p.
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Highway Traffic Safety AdministrationKEYWORDS: BEHAVIOR; CONSUMERS; AUTOMOBILES;
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PURCHASING; MARKET; COSTS; UTILIZATION;
PRICES; FUEL ECONOMY; TRUCKS; BUSES (VEHICLES)

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Charles River Associates Inc.

ADDRESS: 1050 Massachusetts Avenue, Cambridge, MA
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Fuel Consumption and Travel Demand: A Review
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Interim Report, 83 p.

1975, June

SPONSOR: Federal Energy Administration

KEYWORDS: ELASTICITY (ECONOMICS); FUEL
CONSUMPTION; PRICES; GASOLINE; DIESEL FUELS;
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TRANSPORTATION; RATES (COSTS); CARGO
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Cambridge, MA 02138; CSI, Cambridge, MATITLE: Potential Fuel Conservation Measures by
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Conservation, Transportation ProgramsKEYWORDS: ENERGY CONSERVATION; CARGO
TRANSPORTATION; INTERSTATE TRANSPORTATION;
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CONSUMPTION; MARKET; EFFICIENCY; INTERSTATE
COMMERCE COMMISSION; ECONOMIC ANALYSIS;
TABLES (DATA); REGULATIONS; FUEL CONSUMPTI
DEMAND (ECONOMICS)

AVAILABILITY: NTIS

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Cherniavsky, E.A.; Kydes, A.S.; Davidoff, J.W.
Brookhaven National Laboratory, National Center
for Analysis of Energy Systems, Energy Models
Group

ADDRESS: Upton, NY 11973

TITLE: Multi-Objective Function Analysis of ERDA
Forecast-2, Year-2000 Scenario

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1977, May

SPONSOR: Energy Research and Development
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and EvaluationKEYWORDS: FORECASTING; PETROLEUM; IMPORTS; ENERGY
SYSTEMS; ENERGY MODELS; OPTIMIZATION;
CAPITAL; COSTS; ENVIRONMENTAL IMPACT; TABLES
(DATA)

AVAILABILITY: NTIS

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 Hornstra, P.; Kolba, V.H.; Slavecki, H.A.;
 Ivins, R.O.
 Argonne National Laboratory
 ADDRESS: Argonne, IL
 TITLE: Design and Testing of Lithium/Iron Sulfide
 Batteries for Electric Vehicle Propulsions

Paper presented at the Fourth International
 Electric Vehicle Symposium (sponsored by the
 Electric Vehicle Council and the
 International Union of Producers and
 Distributors of Electrical Energy), held in
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 LITHIUM/METAL SULFIDE BATTERIES; ELECTRIC
 VEHICLES; RESEARCH; DESIGN; TESTING;
 PERFORMANCE; DIAGRAMS
 AVAILABILITY: Electric Vehicle Council, 90 Park
 Ave., New York, NY 10016 \$1.50

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 Chilenskas, A.A.; Bernstein, G.J.; Ivins, R.O.
 Argonne National Laboratory, Chemical Engineering
 Division
 ADDRESS: 9700 South Cass Avenue, Argonne, IL
 60439
 TITLE: Lithium Requirements for High-Energy
 Lithium-Aluminum/Iron Sulfide Batteries for
 Load-Leveling and Electric-Vehicle
 Applications

Report No. CONF-760112-3, paper prepared for A
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 KEYWORDS: LITHIUM; LITHIUM-ALUMINUM/IRON SULFIDE
 BATTERIES; ELECTRIC VEHICLES; ENERGY STORAGE;
 LOAD MANAGEMENT; ELECTRIC UTILITIES; DEMAND
 (ECONOMICS); FORECASTING;
 LITHIUM-ALUMINUM/METAL SULFIDE BATTERIES
 AVAILABILITY: NTIS

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 Chiodioji, H.H.
 Energy Research and Development Administration,
 Division of Buildings and Industry
 ADDRESS: Washington, DC
 TITLE: Roadway Decision-Making and Implications
 for Energy Use - Some Economic Considerations

Paper published in Transportation Research Board
 Special Report 166, 10-17

1976
 KEYWORDS: HIGHWAYS; CAPITAL COSTS; ENERGY
 CONSUMPTION; PRICES; CONSTRUCTION; MATERIALS
 AVAILABILITY: National Academy of Sciences,
 National Research Council, Transportation
 Research Board, 2101 Constitution Ave. NW,
 Washington, DC 20418 \$6.00 for TRB Special
 Report 166

<129>
 Ciachette, I.R.
 Cianbro Corp.
 TITLE: Contractors' View on Optimizing Materials
 and Energy

Paper published in Transportation Research Board
 Special Report 166, 29-60
 1976

KEYWORDS: HIGHWAYS; MATERIALS; ENERGY
 CONSUMPTION; CONSTRUCTION; CEMENTS; ASPHALTS;
 STANDARDS
 AVAILABILITY: National Academy of Sciences,
 National Research Council, Transportation
 Research Board, 2101 Constitution Ave. NW,
 Washington, DC 20418 \$6.00 for TRB Special
 Report 166

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 Ciccarone, A.; Antonini, C.; Virgilio, U.
 Alfa Romeo Research Dept.
 ADDRESS: Italy
 TITLE: Fuel Consumption in European Passenger
 Cars Powered by Gasoline, Diesel, and Direct
 Injection Stratified Charge Engines

Paper presented at the Automobile Engineering
 Meeting, Dearborn, Michigan, October 18-22,
 1976, 20 p.

1976
 KEYWORDS: FUEL CONSUMPTION; AUTOMOBILES;
 GASOLINE; DIESEL FUELS; STRATIFIED CHARGE
 ENGINES; EUROPE; COMPUTERIZED SIMULATION;
 COMPARATIVE EVALUATIONS; AUTOMOTIVE
 EMISSIONS; TABLES (DATA); GRAPHS (CHARTS);
 EFFICIENCY; PERFORMANCE
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096

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 Civil Aeronautics Board, Bureau of Accounts and
 Statistics, Economic Evaluation Division
 ADDRESS: Washington, DC 20428
 TITLE: Aircraft Operating Cost and Performance
 Report for Calendar Years 1975 and 1976

Annual report, Volume XI, 134 p.
 1977, July
 KEYWORDS: AIRCRAFT; OPERATING COSTS; PERFORMANCE;
 TABLES (DATA); FINANCIAL DATA; STATISTICS;
 TRAFFIC; CAPACITY; AIR TRANSPORTATION
 AVAILABILITY: GPO, Stock No. 003-006-00073-5

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 Civil Aeronautics Board, Bureau of Accounts and
 Statistics, Economic Evaluation Division
 ADDRESS: Washington, DC 20428
 TITLE: Turbojet/Turbofan Aircraft Operating Cost
 and Performance Trends: Domestic and
 International Operations of the U.S.
 Supplemental Air Carriers, Calendar 1963 -
 Fiscal 1975

Supplemental Carrier Jet Trends, 2nd Edition, 45
 p.

1976, February
 KEYWORDS: AIRCRAFT; OPERATING COSTS; PERFORMANCE;
 OPERATION; HISTORY; STATISTICS; TABLES
 (DATA); COSTS; JET AIRCRAFT; AIR
 TRANSPORTATION

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 Civil Aeronautics Board, Bureau of Accounts and
 Statistics, Economic Evaluation Division
 ADDRESS: Washington, DC 20428
 TITLE: Airline Equipment Needs and Financing
 Through 1985

46 p.
 1976, November
 KEYWORDS: AIR TRANSPORTATION; EQUIPMENT;
 FORECASTING; FINANCING; TRAFFIC; CAPACITY;

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TABLES (DATA); AIRCRAFT; COSTS; CAPITAL

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Civil Aeronautics Board, Bureau of Accounts and Statistics, Statistical Data Division
 ADDRESS: Washington, DC 20428
 TITLE: Computer Air Carrier Traffic Statistics: 12 Months Ended June 30, 1977

Annual Report, 40 p.

1977, November

KEYWORDS: COMPUTERS; AIRCRAFT; TRAFFIC;
 STATISTICS; AIR TRANSPORTATION; TABLES
 (DATA); PASSENGER TRANSPORTATION; CARGO
 TRANSPORTATION; AIRPORTS

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Civil Aeronautics Board, Bureau of Accounts and Statistics, Statistical Data Division,
 Financial and Traffic Data Section

ADDRESS: Washington, DC

TITLE: Truck Carriers--Coach Class: Traffic, Revenue, Yield, Emplanements and Average On-Flight Trip Length by Fare Category (48 State Basis)

Monthly publication, formerly titled "Coach Traffic, Revenue, Yield and Average On-Flight Trip Length by Fare Category for the 48-State Operations of the Domestic Trunks", v.p.

Monthly

KEYWORDS: TRAFFIC; REVENUE; REGIONAL ANALYSIS;
 TABLES (DATA); PASSENGER EMPLANEMENTS

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Civil Aeronautics Board, Bureau of Operating Rights, Standards Division
 ADDRESS: Washington, DC 20428
 TITLE: A Profile of Airline Service in the 48 Contiguous States, June 1, 1975

1977, June 1

KEYWORDS: AIR TRANSPORTATION; TABLES (DATA);
 REGIONAL ANALYSIS; SERVICES; AIRCRAFT;
 PASSENGER TRANSPORTATION; POPULATION
 (STATISTICS); URBAN AREAS; STATISTICS;
 PASSENGER EMPLANEMENTS

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Civil Aeronautics Board, Bureau of Operating Rights, Standards Division
 ADDRESS: Washington, DC 20428
 TITLE: Local Service Carriers Passengers Emplanements: Fiscal Years 1976 and 1975

83 p.

1977, July

KEYWORDS: PASSENGER EMPLANEMENTS; PASSENGER
 TRANSPORTATION; AIRPORTS; AIRCRAFT;
 STATISTICS; TABLES (DATA); REGIONAL ANALYSIS;
 SERVICES

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Civil Aeronautics Board, Bureau of Operating Rights, Standards Division
 ADDRESS: Washington, DC 20428
 TITLE: Transline Carrier Domestic Passenger Emplanements: Fiscal Years 1976 and 1975

95 p.

1977; August

KEYWORDS: AIRPORTS; PASSENGER TRANSPORTATION; AIR
 TRANSPORTATION; REGIONAL ANALYSIS;
 STATISTICS; TABLES (DATA); PASSENGER
 EMPLANEMENTS; SERVICES

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Civil Aeronautics Board, Financial and Traffic Data Section; U.S. Dept. of Transportation, Federal Aviation Administration, Office of Management Systems

ADDRESS: CAB, 1825 Connecticut Ave. NW, Washington, DC 20428; DOT/FAA, 800 Independence Ave. SW, Washington, DC 20591

TITLE: Airport Activity Statistics of Certified Route Air Carriers for 12 Months Ended December 31, 1976

Semi-annual report, Report No. AD/A-046953, 307 p.
 1976, December 31

KEYWORDS: STATISTICS; AIRCRAFT; AIRPORTS; TABLES
 (DATA); SCHEDULING; PASSENGER TRANSPORTATION;
 CARGO TRANSPORTATION; AIR TRANSPORTATION;
 STATE ANALYSIS; PASSENGER EMPLANEMENTS
 AVAILABILITY: NTIS

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Clark, J.W.

Washington, University of, Urban Transportation Program

ADDRESS: Seattle, WA 98105

TITLE: Directing the Evolution of Urban Land Use to Achieve Improved Transportation System Performance

Paper presented at the 54th Annual Meeting of the Transportation Research Board, published in Transportation Research Record 565, 61-74

1976

SPONSOR: National Academy of Sciences,
 Transportation Research Board

KEYWORDS: GROWTH; URBAN AREAS; TRAVEL; POPULATION
 GROWTH; FORECASTING; WASHINGTON; EMPLOYMENT;
 TRANSPORTATION SYSTEMS; PERFORMANCE;
 COMPUTERIZED SIMULATION

AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$6.00 for Transportation Research Record No.
 565

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Clark, H. (ed.)

National Academy of Sciences, National Research Council, Transportation Research Board,
 Commission on Sociotechnical Systems

ADDRESS: 2101 Constitution Avenue NW, Washington, DC

TITLE: Strategies for Reducing Gasoline Consumption Through Improved Motor Vehicle Efficiency. A Report of an Informal Transportation Research Board Workshop

Transportation Research Board Special Report 169, proceedings of a workshop sponsored and conducted by the Transportation Research Board Committee on Energy Conservation and Transportation Demand, Washington, DC, October 7-8, 1975, 55 p.

1975

SPONSOR: Federal Energy Administration; U.S.
 Dept. of Transportation, Transportation
 Systems Center

KEYWORDS: GASOLINE; CONSUMPTION; VEHICLES;
 EFFICIENCY; AUTOMOBILES; SALES; FUEL
 CONSUMPTION; MARKET; ENERGY CONSERVATION;
 FORECASTING; DEMAND (ECONOMICS); SPEED

<141> CONT.

LIMITS; VELOCITY; SAFETY; AUTOMOTIVE
EMISSIONS; FUEL ECONOMY; TAXES; ELECTRIC
VEHICLES
AVAILABILITY: \$2.40

<142>

Clark, M. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Optimizing the Use of Materials and Energy
in Transportation Construction

Transportation Research Board Special Report 166,
proceedings of a conference held November
12-14, 1975, 74 p.

1976

SPONSOR: U.S. Dept. of Transportation, Federal
Highway Administration; Federal Energy
Administration; Energy Research and
Development Administration

KEYWORDS: ENERGY CONSUMPTION; TRANSPORTATION;
CONSTRUCTION; HIGHWAYS; MATERIALS; ENERGY
CONSERVATION; ASPHALT; SULFUR; CEMENTS;
FORECASTING; ENERGY SHORTAGES; PETROLEUM;
GRAPHS (CHARTS); COSTS

AVAILABILITY: \$6.00

<143>

Clark, M. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue, Washington, DC
20418
TITLE: Transportation System Management

Transportation Research Board Special Report 172,
proceedings of a conference held November
7-10, 1976, 167 p.

1977

SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration; U.S. Dept. of
Transportation, Federal Highway
Administration; Institute of Transportation
Engineers

KEYWORDS: TRAFFIC CONTROL; PARKING;
TRANSPORTATION; AUTOMOBILE OCCUPANCY;
GOVERNMENT POLICIES; CARGO TRANSPORTATION;
PLANNING; US DOT; REGULATIONS; URBAN AREAS;
AUTOMOBILES; PASSENGER TRANSPORTATION; PUBLIC
OPINION

AVAILABILITY: \$6.80

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Clark, M. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington,
DC 20418
TITLE: Dual-Mode Transportation

Transportation Research Board Special Report 170,
proceedings of a conference conducted by the
Transportation Research Board, May 29-31,
1974, 164 p.

1976

KEYWORDS: PUBLIC TRANSPORTATION; DUAL-MODE BUS
SYSTEMS; SCHEDULING; RIGHT-OF-WAY; URBAN
TRANSPORTATION; BUSES (VEHICLES); TRANSIT
STATIONS; TRAFFIC CONTROL; MAINTENANCE;
CAPACITY; SAFETY; AUTOMATED GUIDEWAY TRANSIT

AVAILABILITY: \$6.40

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Clark, M. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Urban Transportation Alternatives:
Evolution of Federal Policy

Transportation Research Board Special Report 177,
report of conferences held February 23-26,
1975, at Airline House, Virginia, and March
29-April 1, 1976, at Hunt Valley, Maryland,
38 p.

1977

SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration

KEYWORDS: GOVERNMENT POLICIES; URBAN
TRANSPORTATION; MASS TRANSPORTATION; US DOT;
FUNDING; PLANNING; CONFERENCES; CONSTRUCTION;
FINANCING

AVAILABILITY: \$2.00

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Clarkey, A.
Energy Research Corp.
ADDRESS: Danbury, CT
TITLE: Development of Large Size Nickel-Zinc
Cells for Electric Vehicles

Paper presented at the Fourth International
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Electric Vehicle Council and the
International Union of Producers and
Distributors of Electrical Energy), held in
Dusseldorf, Germany, August 31 - September 2,
1976, 16 p.

1976, September

KEYWORDS: NICKEL-ZINC BATTERIES; ELECTRIC
VEHICLES; RESEARCH; ELECTRODES; ELECTROLYTES;
PERFORMANCE; BATTERY SEPARATORS

AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Cockle, G.R. (ed.); Houser, F.W. (ed.); Koch,
E.M. (ed.)
Association of American Railroads, Mechanical
Division
ADDRESS: Washington, DC
TITLE: Car and Locomotive Cyclopaedia of American
Practices

Third Edition, v. p.

1974

KEYWORDS: RAILROAD CARS; RAIL TRANSPORTATION;
LOCOMOTIVES; DESIGN; CARGO TRANSPORTATION;
PASSENGER TRANSPORTATION; EQUIPMENT; DIESEL
ENGINES; SAFETY; MAINTENANCE; PHOTOGRAPHS;
DIAGRAMS; MANUFACTURERS

AVAILABILITY: Simmons-Boardman Publishing Corp.,
350 Broadway, New York, NY 10013

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Cohen, G.S.; Erlbaum, H.S.; Hartgen, D.T.
New York State Dept. of Transportation, Planning
and Research Bureau, Planning Research Unit
ADDRESS: Albany, NY 12232
TITLE: Intercity Rail Patronage in the NYC -
Buffalo Corridor: Models and Forecasts.
Volume III

Final Report, Report No. DOT/RSPD/DPE/50-77-7,
Volume 3 of 3, 107 p.

1977, May

SPONSOR: U.S. Dept. of Transportation, Office of
University Research

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KEYWORDS: INTERCITY TRANSPORTATION; NEW YORK
CITY; BUFFALO (NEW YORK); MODELS;
FORECASTING; COMPETITION; AIR TRANSPORTATION;
AUTOMOBILES; BUSES (VEHICLES); ELASTICITY
(ECONOMICS); DEMAND (ECONOMICS);
TRANSPORTATION MODE CHOICE; TABLES (DATA);
GRAPHS (CHARTS)

GRAPHS (CHARTS); ELECTRIC POWER DEMAND;
REGIONAL ANALYSIS; TABLES (DATA)

<149>

Cohen, S.B.

Wyle Laboratories

ADDRESS: P.O. Box 1008, Huntsville, AL 35807

TITLE: Regulatory Effectiveness Methodology.
Phase I ResearchReport No. ADA-036579, CG-D 7-77, MSR 76-42, 93 p.
1976, July

SPONSOR: U.S. Dept. of Transportation, Coast
Guard, Office of Research and Development
KEYWORDS: REGULATIONS; RECREATION VEHICLES;
BOATS; SAFETY; MODELS; FORECASTING
AVAILABILITY: NTIS

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Colello, R.G.

U.S. Dept. of Transportation, Transportation
Systems Center

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: Automobile Drivelines

Report No. DOT-TSC-OST-77-34, 56 p.
1977, May

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology; U.S. Dept. of Transportation,
Transportation Systems Center

KEYWORDS: AUTOMOBILE TRANSMISSIONS; FUEL ECONOMY;
AUTOMOBILES; ACCELERATION; AUTOMOTIVE
EMISSIONS; COMPUTERIZED SIMULATION;
PERFORMANCE; FUEL CONSUMPTION; GRAPHS
(CHARTS); DIAGRAMS
AVAILABILITY: NTIS

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Coleman, W.T., Jr.

U.S. Dept. of Transportation, Office of the
Secretary

ADDRESS: Washington, DC 20590

TITLE: A Progress Report: Implementation of the
1975 Statement of National Transportation
Policy

23 p.

1976, September 17

KEYWORDS: TRANSPORTATION; GOVERNMENT POLICIES;
REGULATIONS; ENERGY CONSERVATION; SUBSIDIES;
RAIL TRANSPORTATION; AIR TRANSPORTATION;
URBAN TRANSPORTATION; COAL; PETROLEUM;
SAFETY; ENVIRONMENTAL IMPACT

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Collins, R.H.; Carriere, W.B.

General Research Corp.

ADDRESS: P.O. Box 3587, Santa Barbara, CA 93105

TITLE: Energy Impacts of Electric Cars

Releasable Memorandum, Report No. RM-2101, 47 p.
1978, January

SPONSOR: U.S. Dept. of Energy
KEYWORDS: ELECTRIC VEHICLES; FORECASTING; ENERGY
CONSUMPTION; PETROLEUM; AUTOMOBILES; MODELS;
ELECTRIC POWER GENERATION; BATTERY CHARGING;

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Control Data Corp.; Wells Research Co.

ADDRESS: CDC, 607 Valleybrook Drive, Silver
Spring, MD 20904; WRC, 6003 Executive Blvd.,
Rockville, MDTITLE: Trends in Bus Transit Operations:
1960-1974Report No. PB-266748, DOT-TPI-10-77-14, 134 p.
1977, January

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Policy, Plans, and
International Affairs; U.S. Dept. of
Transportation, Urban Mass Transportation
Administration

KEYWORDS: BUSES (VEHICLES); TABLES (DATA); GRAPHS
(CHARTS); COSTS; URBAN TRANSPORTATION; FUEL
CONSUMPTION; UTILIZATION; PUBLIC
TRANSPORTATION; FINANCIAL DATA; PASSENGER
TRANSPORTATION; REVENUE; EMPLOYMENT; HISTORY;
SERVICES
AVAILABILITY: NTIS

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Cook, J.A.; Pucinari, C.A.; Lingscheit, J.W.;

Rahnte, C.J.

Ford Motor Co.

ADDRESS: Dearborn, MI

TITLE: Automotive Gas Turbine Ceramic Regenerator
Design and Reliability Program. Final
Annual Report for Period July 1, 1975 to
September 30, 1976

Report No. COO-2630-18, 299 p.

1976, October

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYWORDS: STIRLING ENGINES; HEAT EXCHANGERS;
COSTS; PERFORMANCE; REGENERATORS; GAS TURBINE
ENGINES; DIAGRAMS; GRAPHS (CHARTS); TABLES
(DATA); STRESS ANALYSIS; THERMODYNAMICS
AVAILABILITY: NTIS

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Cooper, J.P.; Borg, I.Y.; O'Connell, L.G.;

Behrin, E.; Rubin, B.; Wiesner, H.

Lawrence Livermore Laboratory

ADDRESS: University of California, Livermore, CA

94550

TITLE: Lithium Requirements for Electric Vehicles
Using Lithium-Water-Air BatteriesReport No. UCRL-77440, COMP-760112-2, paper
prepared for the Symposium on United States
Lithium Resources and Requirements by the
Year 2000, January 22-24, 1976, Lakewood,
Colorado, 18 p.

1975, November 12

SPONSOR: Energy Research and Development
Administration

KEYWORDS: ELECTRIC VEHICLES; LITHIUM-WATER-AIR
BATTERIES; LITHIUM; BATTERIES; DEMAND
(ECONOMICS); FORECASTING
AVAILABILITY: NTIS

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Corrigan, R.; Kirschten, J.D.; Samuelson, R.J.

TITLE: The Carter Energy Plan - Some Answers to
the Questions

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National Journal, 710-12 (May 7, 1977)
1977, May 7

KEYWORDS: NATIONAL ENERGY PLAN; ENERGY POLICY;
ENERGY CONSERVATION; FUEL CONSUMPTION;
RESIDENTIAL SECTOR; INDUSTRIAL SECTOR;
INCENTIVES; ECONOMIC IMPACT; PETROLEUM;
NATURAL GAS; AUTOMOBILES; TRANSPORTATION;
PRICES

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Corsi, T.H.; Harvey, M.E.
Maryland, University of, College of Business and
Management; Kent State University
ADDRESS: NU, College Park, MD; KSU, Kent, Ohio
44240

TITLE: Travel Behavior Under Increases in
Gasoline Prices

Traffic Quarterly, XXXI(4), 605-624
1977, October

KEYWORDS: TRAVEL; BEHAVIOR; GASOLINE; PRICES;
TABLES (DATA); SOCIO-ECONOMIC FACTORS;
ATTITUDES; QUESTIONNAIRES; SURVEYS; INCOME;
WISCONSIN; GOVERNMENT POLICIES; ALLOCATIONS

<158>

Craia Automotive Group Inc.
ADDRESS: 965 East Jefferson Avenue, Detroit, MI
48207

TITLE: Automotive News

Weekly publication, v.p.
Weekly

KEYWORDS: AUTOMOBILES; ENGINES; DIESEL ENGINES;
MANUFACTURERS; FUEL ECONOMY; PRODUCTION;
VANS; TRUCKS; CONSUMERS; TIRES; ELECTRIC
VEHICLES; FUEL OIL; EMISSIONS; AUTOMOTIVE
TRANSMISSIONS; ROAD TESTS; SALES; IMPORTS;
EXPORTS; COSTS; TIRES; BUSES (VEHICLES);
PRICES; AUTOMOTIVE INDUSTRY; INTERNATIONAL
ANALYSIS; PHOTOGRAPHS; DESIGN; ADVERTISING

<159>

Crane, D.P.; Bowman, J.R.
U.S. Postal Service
ADDRESS: Washington, DC
TITLE: United States Postal Service Electric
Vehicle Program

Paper presented at the Fourth International
Electric Vehicle Symposium, held in
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1976, 28 p.

1976, September
KEYWORDS: ELECTRIC VEHICLES; TRUCKS; ENERGY
CONSERVATION; AUTOMOTIVE FLEETS; AIR QUALITY;
DEVELOPMENT; CUPERTINO (CALIFORNIA); COSTS;
AUTOMOTIVE EMISSIONS; TABLES (DATA);
COMPARATIVE EVALUATIONS; GRAPHS (CHARTS);
FUEL CONSUMPTION; FUEL ECONOMY; POSTAL SERVICE
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Crier, F.S.
Washington Center for Metropolitan Studies
ADDRESS: 171/7 Massachusetts Avenue NW,
Washington, DC 20036
TITLE: The Energy Crisis and Low-Income
Americans: An Analysis of Impact and Options

171 p.
1977, June

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SPONSOR: Community Services Administration
KEYWORDS: INCOME; LOW INCOME GROUPS; COSTS;
SOCIO-ECONOMIC FACTORS; ENERGY CONSUMPTION;
RESIDENTIAL SECTOR; BEHAVIOR; ENERGY
CONSERVATION; TRANSPORTATION; HOUSING; SPACE
HEATING; AUTOMOBILES; TABLES (DATA); SURVEYS;
FUEL CONSUMPTION; ENERGY SHORTAGES

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Cuffe, K.W.
General Motors Corp., Harrison Radiator Division
ADDRESS: Lockport, NY
TITLE: Air Conditioning and Heating Systems for
Trucks

Report No. SAE/SP-78/425, 44 p.
1978

KEYWORDS: TRUCKS; AIR CONDITIONING; DESIGN;
PERFORMANCE; HUMAN COMFORT; ENGINEERING;
THERMAL COMFORT; DIAGRAMS; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Curtis, V. (ed.)
American Society of Planning Officials
ADDRESS: Chicago, IL
TITLE: Land Use and the Environment - An
Anthology of Readings

207 p.

SPONSOR: U.S. Environmental Protection Agency,
Office of Research and Monitoring,
Environmental Studies Division
KEYWORDS: LAND USE; ENVIRONMENTAL QUALITY; AIR
POLLUTION; GOVERNMENT POLICIES; INCENTIVES;
URBAN AREAS; HISTORY; TABLES (DATA);
RECREATION; NOISE (SOUND); FORECASTING; LAND
DEVELOPMENT; ENVIRONMENTAL IMPACT

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Cyrus, J.D.
Sandia Laboratories
ADDRESS: Albuquerque, NM 87115; Livermore, CA
94550
TITLE: Proceedings of the Hybrid Vehicle Interest
and Capability Assessment Workshop

Report No. SAND 76-0645, conference held
September 22-23, 1976, Albuquerque, New
Mexico, 40 p.

1977, March

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: HYBRID ELECTRIC-POWERED VEHICLES;
CONFERENCES; HEAT ENGINES; SYSTEMS ANALYSIS;
STORAGE; AUTOMOTIVE CONTROL SYSTEMS
AVAILABILITY: NTIS

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Dajani, J.S.; Stortstrom, R.G.; Warner, D.B.
Duke University, School of Engineering, Dept. of
Civil Engineering; Duke University, Duke
Environmental Center
ADDRESS: Durham, NC
TITLE: The Potential for Helicopter Passenger
Service in Major Urban Areas

Report No. N77-27087, NASA-CR-145224, 95 p.
1977, March

SPONSOR: National Aeronautics and Space
Administration, Langley Research Center

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KEYWORDS: HELICOPTERS; AIR TRANSPORTATION;
COMPUTERIZED SIMULATION; COSTS; TABLES
(DATA); REGIONAL ANALYSIS; URBAN AREAS;
INTERCITY TRANSPORTATION; PASSENGER
TRANSPORTATION; AIRPORTS; URBAN TRANSPORTATION
AVAILABILITY: NTIS

R.C.; Lerner, S.S.
Lawrence Livermore Laboratory
ADDRESS: University of California, Livermore, CA
94550
TITLE: Determination of the Effectiveness and
Feasibility of Regenerative Braking Systems
on Electric and Other Automobiles. Volume
II: Design Study and Analysis

Report No. UCRL-52306/2, v.p.

1977, September 9

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: AUTOMOBILES; ENERGY STORAGE;
TECHNOLOGY; ELECTRIC VEHICLES; REGENERATIVE
BRAKING; HISTORY; DEVELOPMENT; TESTING;
TRANSPORTATION; COST ANALYSIS; TABLES (DATA);
PATENTS; HYBRID ELECTRIC-POWERED VEHICLES;
ENERGY CONSERVATION; BATTERIES
AVAILABILITY: NTIS

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Data Resources Inc.
ADDRESS: Lexington, MA
TITLE: A Study of the Demand for Gasoline

Final Report, Report No. PB-235254, 146 p.
1974, July

SPONSOR: Executive Office of the President,
Council on Environmental Quality; U.S.
Environmental Protection Agency
KEYWORDS: GASOLINE; PRICES; FUEL CONSUMPTION;
DEMAND (ECONOMICS); TAXES; VEHICLES; GROSS
NATIONAL PRODUCT; INCOME; ECONOMETRIC MODELS;
FORECASTING; AUTOMOBILES; TABLES (DATA);
ELASTICITY (ECONOMICS); ECONOMIC IMPACT
AVAILABILITY: NTIS

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Davis, F.W.; Burkhalter, D.A.
TITLE: Vanpooling Institutional Barriers

Report No. HCP/H5812-01, v.p.

1978, May

SPONSOR: U.S. Dept. of Energy, Assistant
Secretary for Conservation and Solar
Applications, Transportation Programs Office
KEYWORDS: INSTITUTIONAL FACTORS; REGULATIONS;
VANPOOLS; LIABILITIES; INSURANCE; TAXES;
OPERATION; GOVERNMENT POLICIES; LEGAL
ASPECTS; STATE ANALYSIS
AVAILABILITY: GPO, Stock No. 061-000-00085-2

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Davis, D.D.; O'Connell, L.G.; Warner, S.E.;
Paynard, A.E.; Roulett, B.H.
Lawrence Livermore Laboratory; Airesearch
Manufacturing Co.
ADDRESS: LLL, Berkeley, CA
TITLE: Battery-Flywheel Hybrid Electric Power
System for Near Term Application. Volume 1:
System Description Volume 2: System Design

Informal Report, Report No. UCID-17098, 52 pages
for Volume 1, 81 pages for Volume 2
1976, April 13

SPONSOR: Energy Research and Development
Administration
KEYWORDS: TRANSPORTATION; BATTERIES; FLYWHEELS;
HYBRID ELECTRIC-POWERED VEHICLES; ENERGY
CONSUMPTION; ALTERNATE FUELS; ELECTRIC
VEHICLES; LEAD-ACID BATTERIES; PERFORMANCE;
PETROLEUM; ENERGY DEMAND; DESIGN; ELECTRIC
VEHICLE RANGE
AVAILABILITY: NTIS

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Davis, F.W., Jr.; Oen, K.
Tennessee, University of, Transportation Center
ADDRESS: Knoxville, TN 37916
TITLE: Solving Public Passenger Transportation
Problems: A Need for Policy Reorientation.
Volume II

Final Report, Report No. PB-267912,
DOT-TST-77-35, 26 p.

1977, January

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of University Research
KEYWORDS: PASSENGER TRANSPORTATION; URBAN
TRANSPORTATION; DEVELOPMENT; GOVERNMENT
POLICIES; TAXICABS; BUSES (VEHICLES);
AUTOMOTIVE FLEETS; PUBLIC TRANSPORTATION;
CONSUMERS
AVAILABILITY: NTIS

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Davis, D.D.; Renner, R.A.; Younger, P.C.; Epps,
R.C.; Lerner, S.S.
Lawrence Livermore Laboratory
ADDRESS: University of California, P.O. Box 808,
Livermore, CA 94550
TITLE: Determination of the Effectiveness and
Feasibility of Regenerative Braking Systems
on Electric and Other Automobiles. Volume I
- Summary

Report No. UCRL-52306/1, 74 p.

1977, September 9

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; REGENERATIVE
BRAKING; HISTORY; RECOVERY; UTILIZATION;
FLYWHEELS; POWER TRAIN SYSTEMS; DIAGRAMS;
BATTERIES; TABLES (DATA); GRAPHS (CHARTS);
COSTS; FEASIBILITY
AVAILABILITY: NTIS

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Dayman, B., Jr.
California Institute of Technology, Jet
Propulsion Laboratory
ADDRESS: Pasadena, CA
TITLE: Realistic Effects of Winds on the
Aerodynamic Resistance of Automobiles

Paper No. 780337, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 20 p.

1978

KEYWORDS: AERODYNAMICS; WIND; FUEL ECONOMY;
AUTOMOBILES; FUEL CONSUMPTION; VELOCITY;
COMPUTER PROGRAMS; TABLES (DATA)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 2.50

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Demetsky, M.J.; Noel, L.A.; Virkler, M.R.
Virginia, University of, Dept. of Civil
Engineering
ADDRESS: Charlottesville, VA 22901
TITLE: Methodology for the Design of Urban
Transportation Interface Facilities

Final Report, Report No. PB-269956,
DOT-TST-77-46, OVA/529036/CE76/102, 124 p.
1976, December
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of University Research
KEYWORDS: DESIGN; URBAN TRANSPORTATION; MASS
TRANSPORTATION; BUILDINGS; TRANSIT STATIONS
AVAILABILITY: NTIS

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Dennis, A.F.; Foley, J.T., Jr.; Hartman, W.P.;
Larson, D.W.
Sandia Laboratories
ADDRESS: Albuquerque, NM 87185
TITLE: Severities of Transportation Accidents
Involving Large Packages

Report No. SAND77-0001, v.p.
1978, May
SPONSOR: U.S. Dept. of Energy, Division of
Environmental Technology
KEYWORDS: TRANSPORTATION; ACCIDENTS; CONTAINERS;
HAZARDS; FIRE; RAIL TRANSPORTATION; TRUCKS;
AUTOMOBILES; WEIGHT; TABLES (DATA)
AVAILABILITY: NTIS

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Deosaran, G.; Sweazy, H.; Van Duzee, R.
Systems Analysis and Research Corp.; U.S. Dept.
of Transportation, Federal Aviation
Administration
ADDRESS: SAFC, 1801 K Street NW, Washington, DC;
USDOT/FAA, 800 Independence Avenue SW,
Washington, DC 20006
TITLE: Forecasts of Computer Airlines Activity

Report No. FAA-AVP-77-28, 139 p.
1977, July
SPONSOR: U.S. Dept. of Transportation, Federal
Aviation Administration, Office of Aviation
Policy
KEYWORDS: AVIATION; AIR TRANSPORTATION; PASSENGER
TRANSPORTATION; COMPUTING; FORECASTING;
REGIONAL ANALYSIS; MODELS; REVENUE; HISTORY;
TABLES (DATA); AIRPORTS; STATISTICS; GROWTH;
PUERTO RICO; PASSENGER ENPLANEMENTS
AVAILABILITY: NTIS

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DeRead, L.W.
General Motors Corp.
ADDRESS: Detroit, MI
TITLE: The Influence of Road Surface Texture on
Tire Rolling Resistance

Paper No. 780257, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 8 p.
1978
KEYWORDS: TIRES; FRICTION; WEAR; ROADS; SURFACES;
FUEL ECONOMY; TESTING; PERFORMANCE; MATERIALS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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DeWolf, J.B.; Davis, C.; Heinemann, P.C.
Charles Stark Draper Laboratory Inc.
ADDRESS: 68 Albany Street, Cambridge, MA 02139
TITLE: Computer-Based Resource Accounting Model
for Automobile Technology Impact Assessment

Report No. DOT-TSC-OST-76-39, 74 p.
1976, October
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology; U.S. Dept. of Transportation,
Transportation Systems Center
KEYWORDS: MODELS; AUTOMOBILES; TECHNOLOGY
ASSESSMENT; RESOURCES; MATERIALS; ENERGY
DEMAND; COMPUTERIZED SIMULATION; INPUT-OUTPUT
ANALYSIS; LABOR ESTIMATES; CAPITAL; DEMAND
(ECONOMICS); TABLES (DATA); MANPOWER
AVAILABILITY: NTIS

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Dickson, E.M.; Ryan, J.W.; Saulyan, M.H.
Stanford Research Institute
ADDRESS: Menlo Park, CA 94025
TITLE: The Hydrogen Energy Economy: A Realistic
Appraisal of Prospects and Impacts

Praeger Special Studies in U.S. Economic, Social,
and Political Issues, 317 p.
1977
SPONSOR: National Science Foundation, RANN Program
KEYWORDS: HYDROGEN; HYDROGEN FUELS; TECHNOLOGY
ASSESSMENT; FORECASTING; HYDROGEN PRODUCTION;
HYDROGEN STORAGE; DISTRIBUTION; UTILIZATION;
SAFETY; COMPARATIVE EVALUATIONS; ECONOMICS;
COSTS; VEHICLES; AUTOMOTIVE FUELS; ALTERNATE
FUELS; AVIATION; AIR TRANSPORTATION;
UTILITIES; AMMONIA; SYNTHESIS; STEEL MAKING
AVAILABILITY: Praeger Publishers, 200 Park
Avenue, New York, NY 10017 \$18.50

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Dietz, H.
Scitran
ADDRESS: Box 5456, Santa Barbara, CA 93108
TITLE: Development of Batteries for
Electrically-Driven Vehicles

Report No. W76-33626, NASA-TT-F-17227, 27 p.;
Translated from Bosch Technische Berichte,
2(5), 211-219
1976, September
SPONSOR: National Aeronautics and Space
Administration
KEYWORDS: BATTERIES; ELECTRIC VEHICLES; FUEL
CELLS; RESEARCH; PERFORMANCE
AVAILABILITY: NTIS

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Doernberg, A.
Brookhaven National Laboratory, National Center
for Analysis of Energy Systems, Technology
Assessment Group
ADDRESS: Upton, NY 11973
TITLE: Impact of Selected Energy Conservation
Technologies on Baseline Demands

Report No. BNL-50745, 93 p.
1977, September
SPONSOR: U.S. Dept. of Energy
KEYWORDS: REGIONAL ANALYSIS; ENERGY CONSUMPTION;
TABLES (DATA); ENERGY CONSERVATION; COST
EFFECTIVENESS; TECHNOLOGY; STANDARDS; MODELS;
RESIDENTIAL SECTOR; COMMERCIAL SECTOR;
FORECASTING; INDUSTRIAL SECTOR; TRANSPORTATION
AVAILABILITY: NTIS

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Doggett, R.W.; Meyer, R.
International Research and Technology Corp.
ADDRESS: 7655 Old Springhouse Road, McLean, VA
22101

TITLE: The Transportation Energy Conservation
Network (TECHNET): A Summary Description

Report No. IRT-19900/1, 35 p.

1978, March 14

SPONSOR: Oak Ridge National Laboratory, Energy
Division, Data Management and Analysis Group
KEYWORDS: TRANSPORTATION; ENERGY CONSERVATION;
DEMAND (ECONOMICS); ENERGY CONSUMPTION;
ENVIRONMENTAL IMPACT; ECONOMIC IMPACT; TABLES
(DATA); MODELS; GOVERNMENT POLICIES;
SIMULATION; MATERIALS; TRANSPORTATION

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Doggett, R.W.; Meyer, R.; Heller, M.
International Research and Technology Corp.
ADDRESS: 7655 Old Springhouse Rd.; McLean, VA
22101

TITLE: Ten Scenarios of Transportation Energy
Conservation Using TECHNET

Report No. IRT-17200/2-R, 107 p.

1978, June

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Data
Analysis Branch
KEYWORDS: FORECASTING; MODELS; TRANSPORTATION;
GASOLINE; RATIONING; ENERGY CONSERVATION;
AUTOMOTIVE ENGINES; BRAYTON CYCLE; STIRLING
ENGINES; INTERNAL COMBUSTION ENGINES;
ECONOMIC IMPACT; ENERGY INTENSITY; MARKET;
ENERGY CONSUMPTION; AUTOMOBILES; GROWTH;
VEHICLE MILES TRAVELED; GROSS NATIONAL
PRODUCT; MILEAGE; TABLES (DATA)

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Dohner, A.F.
General Motors Corp., Research Laboratories
ADDRESS: Warren, MI
TITLE: Transient System Optimization of an
Experimental Engine Control System Over the
Federal Emissions Driving Schedule

Paper No. 780286, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan
February 27 - March 3, 1978, 20 p.

1978

KEYWORDS: FUEL ECONOMY; AUTOMOTIVE EMISSION
CONTROL; AUTOMOTIVE ENGINES; FUEL
CONSUMPTION; DESIGN; TESTING; GRAPHS
(CHARTS); CATALYTIC CONVERTERS
AVAILABILITY: Society of Automotive Engineers
Inc., 800 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Donnelly, J.J., Jr.; Roessler, W.U.
Aerospace Corp., Environment and Energy
Conservation Division, Mobile Systems Group,
Office of Energy Conservation
TITLE: Fuel Consumption and Engine Horsepower
Projections for the Highway Transportation
Sector

79 p.

1978, April 28

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Office of
Highway Systems, Heat Engine Systems Branch
KEYWORDS: FUEL CONSUMPTION; HIGHWAY
TRANSPORTATION; AUTOMOBILES; TRUCKS; BUSES
(VEHICLES); MOTORCYCLES; MILEAGE; ENGINES;

SALES; FORECASTING; WEIGHT; CLASSIFICATIONS;
TABLES (DATA); SIZE; FUEL ECONOMY

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Donovan, Hamster and Rattien Inc.
ADDRESS: 1055 Thomas Jefferson St., Suite 414,
Washington, DC 20007
TITLE: Energy, the Environment and Land Use:
Literature Review

Report No. UCRL-13710(Pt. 1), 190 p.

1976, November 5

SPONSOR: Lawrence Livermore Laboratory, Office of
Environmental Policy
KEYWORDS: BIBLIOGRAPHIES; ENERGY SUPPLIES; COAL;
NUCLEAR ENERGY; PETROLEUM; NATURAL GAS;
ALTERNATE FUELS; ELECTRIC POWER GENERATION;
ENERGY CONSUMPTION; ENERGY CONSERVATION;
RESIDENTIAL SECTOR; COMMERCIAL SECTOR;
TRANSPORTATION; AGRICULTURE; LAND USE;
ENVIRONMENTAL IMPACT
AVAILABILITY: NTIS

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Donovan, Hamster and Rattien Inc.
ADDRESS: 1055 Thomas Jefferson St., Suite 414,
Washington, DC 20007
TITLE: Energy, the Environment, and Land Use.
Final Report

Report No. UCRL-13710(Pt. 2), 151 p.

1976, November 5

SPONSOR: Lawrence Livermore Laboratory, Office of
Environmental Policy
KEYWORDS: LAND USE; ENVIRONMENTAL IMPACT; ENERGY
CONSERVATION; ENERGY CONSUMPTION; ENERGY
DEMAND; POLLUTION; ECONOMIC ANALYSIS; SITE
SELECTION; COAL; PETROLEUM; TRANSPORTATION;
PRODUCTION; NUCLEAR ENERGY; WASTE DISPOSAL
AVAILABILITY: NTIS

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Duffy, R.A.; Eiden, G.L.; Hamilton, C.W.; Drago,
V.J.
Battelle Columbus Laboratories
ADDRESS: 505 King Avenue, Columbus, OH 43201
TITLE: General Aviation Dynamics: An Extension
of the Cost Impact Study to Include
Interactions in the Forecasting of General
Aviation Activity. Volumes I-IV

Report No. FAA-ADP-77-20, v.p

1977, April

SPONSOR: U.S. Dept. of Transportation, Federal
Aviation Administration, Office of Aviation
Policy, Aviation Forecast Branch
KEYWORDS: FORECASTING; AVIATION; OPERATING COSTS;
MODELS; DATA BASES; SIMULATION; AIRCRAFT;
FUEL CONSUMPTION; UTILIZATION; TABLES (DATA);
GRAPHS (CHARTS); GOVERNMENT POLICIES;
REGULATIONS; DEMAND (ECONOMICS); AIR
TRANSPORTATION; OPERATION
AVAILABILITY: NTIS

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Dupree, W.G., Jr.
U.S. Dept. of Interior, Bureau of Mines, Division
of Interfuels Studies
ADDRESS: Washington, DC 20241
TITLE: Energy Consumption in the Transportation
Sector

Paper presented at the Fourth National Conference
on the "Effects of Energy Constraints on

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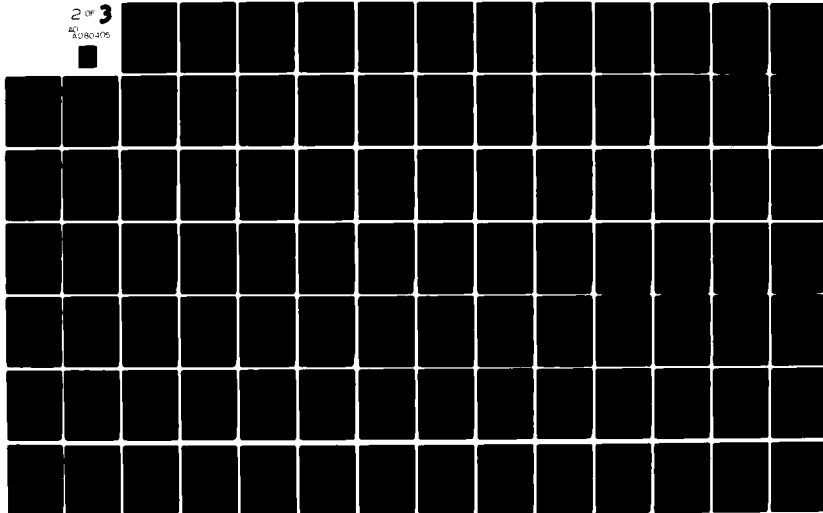
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1977

KEYWORDS: ENERGY CONSUMPTION; TRANSPORTATION; PETROLEUM; PETROLEUM PRODUCTS; LIQUEFIED PETROLEUM GASES; JET ENGINE FUELS; GASOLINE; DISTILLATES; FUEL OIL; RESIDUAL OILS; TABLES (DATA); GRAPHS (CHARTS); REGIONAL ANALYSIS

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Dustin, H.O.; Dehington, R.J.
National Aeronautics and Space Administration,
Lewis Research Center

ADDRESS: Cleveland, OH 44135

TITLE: Test and Evaluation of 23 Electric Vehicles for State-of-the-Art Assessment

Report No. CONS/1011-21, NASA TM-73850, paper presented at the 1978 SAE Congress, Detroit, Michigan, February 27 - March 3, 1978, 24 p.

1978

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation

KEYWORDS: ELECTRIC VEHICLES; TESTING; HYBRID ELECTRIC-POWERED VEHICLES; REGENERATIVE BRAKING; ENERGY CONSUMPTION; TABLES (DATA); GRAPHS (CHARTS); FUEL CONSUMPTION; PERFORMANCE

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Ebersole, W.; Rubin, D.; Darling, E.; Englander, I.; Frenkel, L.; Meyerhoff, N.; Prerau, D.; Schaeffer, K.R.; Morrison, J.

U.S. Dept. of Transportation, Transportation Systems Center

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: The Daylight Saving Time Study.
Executive Summary - Final Report on the Operation and Effects of Daylight Saving Time

26 p.

1975, July

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Policy, Plans and International Affairs, Office of Transportation Energy Policy

KEYWORDS: ENERGY CONSERVATION; LEGISLATION; SAFETY; TRAVEL; DAYLIGHT SAVING TIME; TRANSPORTATION; ELECTRIC POWER; PUBLIC OPINION; CRIME; GOVERNMENT POLICIES; ACCIDENTS; TABLES (DATA)

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Ecklund, E.E.

U.S. Dept. of Energy, Division of Transportation Energy Conservation

ADDRESS: Washington, DC 20545

TITLE: Comparative Automotive Engine Operation When Fueled with Ethanol and Methanol

Report No. HCP/W1737-01, v.p.

1975, May

KEYWORDS: ALTERNATE FUELS; AUTOMOTIVE ENGINES; ETHANOL; METHANOL; GASOLINE; PERFORMANCE; COMPARATIVE EVALUATIONS; FUEL-AIR RATIO; FUEL ECONOMY; AUTOMOTIVE EMISSIONS; TESTING; GRAPHS (CHARTS); DRIVING CYCLE

AVAILABILITY: GPO, Stock No. 061-000-00074-7

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Energy and Environmental Analysis Inc.
ADDRESS: 1701 North Fort Myer Drive, Arlington,

VA 22209

TITLE: End Use Energy Consumption Data Base: Series 1 Tables

Report No. PB-261617, DOE/EIA-0014, 206 p.
1978, June

SPONSOR: U.S. Dept. of Energy, Energy Information Administration, Office of Energy Data

KEYWORDS: ENERGY CONSUMPTION; ECONOMIC ANALYSIS; INDUSTRIES; DATA BASES; FUELS; INDUSTRIAL SECTOR; MANUFACTURING; MINING; PAPER INDUSTRY; TEXTILE INDUSTRY; AGRICULTURE; RESIDENTIAL SECTOR; ELECTRIC UTILITIES; COMMERCIAL SECTOR; HOUSING; STATISTICS; INCOME; REGIONAL ANALYSIS; TRANSPORTATION; AUTOMOBILES; AIR TRANSPORTATION; WATER TRANSPORTATION; TABLES (DATA); BUSES (VEHICLES); STATE ANALYSIS

AVAILABILITY: NTIS

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Energy Research and Development Administration

ADDRESS: Washington, DC

TITLE: Proceedings of the Third International Electric Vehicle Symposium. Volumes 1 and 2

Report No. CONF-740215, proceedings of conference held February 19-21, 1974, Washington, DC, v.p.

1974

SPONSOR: Electric Vehicle Council

KEYWORDS: ELECTRIC VEHICLES; RESEARCH; BATTERIES; DRIVE TRAIN SYSTEMS; ELECTRIC POWER DEMAND; UTILITIES; ENVIRONMENTAL IMPACT; PASSENGER TRANSPORTATION; AUTOMOBILES; ELECTRIC VEHICLE RANGE; MARKET; TRUCKS; MAINTENANCE; HYBRID ELECTRIC-POWERED VEHICLES; UTILIZATION; ELECTRIC RAIL SYSTEMS; PERFORMANCE; EFFICIENCY; ECONOMIC ANALYSIS; PRODUCTION; BUSES (VEHICLES); DRIVING CYCLE; INTERNATIONAL ANALYSIS; DIAGRAMS; PHOTOGRAPHS

AVAILABILITY: NTIS

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Energy Research and Development Administration,
Assistant Administrator for Institutional Relations, Energy Extension Service

ADDRESS: Washington, DC 20545

TITLE: Bibliography Energy Extension Service

Report No. TIC/EES/BIB-1, 120 p.

1977, April

KEYWORDS: BIBLIOGRAPHIES; ENERGY CONSERVATION; SOLAR ENERGY; ENERGY CONSUMPTION; BUILDINGS; BEHAVIOR; ENERGY POLICY; ECONOMICS; WASTE PROCESSING; ENERGY DEMAND; ENERGY SHORTAGES; ENERGY RESOURCES; FOSSIL FUELS; AGRICULTURE; HOUSES; INDUSTRIES; TRANSPORTATION

AVAILABILITY: U.S. Dept. of Energy, Technical Information Center, P.O. Box 62, Oak Ridge, TN 37830

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Energy Research and Development Administration,
Division of Transportation Energy Conservation

ADDRESS: Washington, DC

TITLE: State-of-the-Art (SOA) Test and Data Project Review and Near-Term Electric Vehicle R&D Program Review

1977, May 20

KEYWORDS: ELECTRIC VEHICLES; TESTING; HYBRID ELECTRIC-POWERED VEHICLES; US ERDA; VELOCITY; GRAPHS (CHARTS); PHOTOGRAPHS; RESEARCH; PERFORMANCE

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Energy Research and Development Administration,
Office of Assistant Administrator for
Environment and Safety; Energy Research and
Development Administration, Office of
Assistant Administrator for Conservation
ADDRESS: Washington, DC
TITLE: Environmental Development Plan: Electric
Vehicle Systems, FY 1978

Report No. EDP/C-01(77), 118 p.
1977, August

KEYWORDS: ELECTRIC VEHICLES; BATTERIES; US DOE;
ENVIRONMENTAL IMPACT; RESEARCH; ELECTRIC
POWER DEMAND; HEALTH; SAFETY; SOCIO-ECONOMIC
FACTORS; AIR QUALITY; NOISE POLLUTION
AVAILABILITY: WTIS

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Engelen, R.E.

Barton-Anchuan Associates Inc.
TITLE: Joint Development: Institutional
Constraints and Potentials

Paper presented at the 54th Annual Meeting of the
Transportation Research Board, published in
Transportation Research Record 565, 12-17
1976

SPONSOR: National Academy of Sciences,
Transportation Research Board
KEYWORDS: LAND USE; TRANSPORTATION SYSTEMS;
PLANNING; GOVERNMENT POLICIES; FUNDING;
LEGISLATION; INCENTIVES
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$6.00 for Transportation Research Record No.
565

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Engelhart, J.E.

Ford Motor Co.
ADDRESS: Detroit, MI
TITLE: The Origin and Uses of the Economy Van

Paper No. 780237, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 12 p.

1978
KEYWORDS: VANS; HISTORY; UTILIZATION;
PHOTOGRAPHS; DESIGN; MARKET; SALES
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Erlbaum, W.S.

New York State Dept. of Transportation, Planning
and Research Bureau
ADDRESS: Albany, NY
TITLE: Gasoline Demand by Owner Characteristics

Report presented at the 54th Annual Meeting of
the Transportation Research Board, published
in "Transportation Energy Conservation and
Demand," Transportation Research Record 561,
37-44
1976

KEYWORDS: GASOLINE; DEMAND (ECONOMICS);
OWNERSHIP; OWNERS; NEW YORK; AUTOMOBILES;
RATIONING; ALLOCATIONS; FUEL CONSUMPTION;
SIZE; AGE GROUPS; MILEAGE; SEX;
SOCIO-ECONOMIC FACTORS
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$5.00 for Transportation Research Record 561

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Erlbaum, W.S.; Hartgen, D.T.; Cohen, G.S.
New York State Dept. of Transportation, Planning
Division, Planning Research Unit
ADDRESS: Albany, NY 12232
TITLE: Automotive Energy Forecasts: Impact of
Price, Availability, and Efficiency

Preliminary Research Report 133, 99 p.
1977, December

KEYWORDS: NEW YORK; FUEL CONSUMPTION; VEHICLE
MILES TRAVELED; EMPLOYMENT; FUEL ECONOMY;
GASOLINE; PRICES; SOCIO-ECONOMIC FACTORS;
FORECASTING; MODELS; AUTOMOBILES; REGIONAL
ANALYSIS; TABLES (DATA); POPULATION
(STATISTICS); AUTOMOBILE REGISTRATIONS

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Erlbaum, W.S.; Trentacoste, H.F.; Knighton, R.G.;

Slavick, S.R.

New York State Dept. of Transportation, Planning
and Research Bureau, Planning Research Unit
ADDRESS: Albany, NY 12232

TITLE: New York State Intercity Travel Data,
1975. Volume II

Report No. DOT/RSPD/DPE/50-77-6, Volume 2 of 3,
40 p.
1977, May

SPONSOR: U.S. Dept. of Transportation, Office of
University Research
KEYWORDS: INTERCITY TRANSPORTATION;
TRANSPORTATION; NEW YORK; TRAVEL; DATA BASES;
STATISTICS; AIR TRANSPORTATION; AUTOMOBILES;
BUSES (VEHICLES); RAIL TRANSPORTATION;
SERVICES; TABLES (DATA)

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ESB Inc.

ADDRESS: 5 Penn Center Plaza, Philadelphia, PA
19103

TITLE: Cost and Design Study to Develop Lead-Acid
Batteries for Electric Vehicle Propulsion.
Volume 1

Report No. ANL-K-77-3621-1, 441 p.
1977

SPONSOR: Argonne National Laboratory
KEYWORDS: BATTERIES; ELECTRIC VEHICLES; LEAD-ACID
BATTERIES; COSTS; DESIGN; DIAGRAMS; RESEARCH;
MARKET
AVAILABILITY: WTIS

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Esposito, V.J.

U.S. Dept. of Energy
ADDRESS: Washington, DC

TITLE: Overview of Electric Vehicles in the
United States

Paper No. 780085, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 8 p.

1978
KEYWORDS: ELECTRIC VEHICLES; US DOE; RESEARCH;
HYBRID ELECTRIC-POWERED VEHICLES; BATTERIES;
PERFORMANCE; STANDARDS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Ethyl Corp.
ADDRESS: 330 South Fourth Street, Richmond, VA
23219

TITLE: Emissions and Fuel Economy of the
Turbulent Flow System for European 4-Cyl
Engines

Paper No. 760856, published in SAE SP-411, 33-52
1976, August

SPONSOR: Society of Automotive Engineers,
Milwaukee Section

KEYWORDS: FUEL ECONOMY; AUTOMOTIVE EMISSIONS;
STANDARDS; AUTOMOTIVE FUELS; AUTOMOTIVE
ENGINES; DESIGN; TESTING; GRAPHS (CHARTS);
AUTOMOTIVE TRANSMISSIONS; VELOCITY; TABLES
(DATA)

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 for SAE SP-411

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Evans, L.
General Motors Corp., Research Laboratories
ADDRESS: Warren, MI 48090
TITLE: Exhaust Emissions, Fuel Consumption and
Traffic: Relations Derived from Urban
Driving Schedule Data

Research Publication GMR-2599, 35 p.
1977, December 7

KEYWORDS: AUTOMOTIVE EMISSIONS; FUEL CONSUMPTION;
TRAFFIC; URBAN TRANSPORTATION; VELOCITY;
TRAVEL TIME; VEHICLE TRIPS; HYDROCARBONS;
CARBON MONOXIDE; NITROGEN OXIDES; TABLES
(DATA); GRAPHS (CHARTS)

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Evans, L.; Herman, R.; Lam, T.W.
General Motors Corp., Research Laboratories
TITLE: Gasoline Consumption in Urban Traffic

Paper No. 760048, presented at the Automotive
Engineering Congress and Exposition, Detroit,
Michigan, February 23-27, 1976, 8 p.

1976

SPONSOR: Society of Automotive Engineers
KEYWORDS: TRAFFIC; URBAN TRANSPORTATION; FUEL
CONSUMPTION; FUEL ECONOMY; GASOLINE;
REGRESSION ANALYSIS; VEHICLE TRIPS; VELOCITY
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 92.75

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Executive Office of the President
ADDRESS: Washington, DC
TITLE: Economic Report of the President Together
with the Annual Report of the Council of
Economic Advisers Transmitted to the Congress
January 1978

Annual report, 384 p.
1978

KEYWORDS: ECONOMICS; ECONOMIC POLICY; GOVERNMENT
POLICIES; INTERNATIONAL RELATIONS; INFLATION;
UNEMPLOYMENT; EMPLOYMENT; PRODUCTION; TABLES
(DATA); STATISTICS
AVAILABILITY: GPO, Stock No. 040-000-00389-4

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Executive Office of the President, Office of
Management and Budget
ADDRESS: Washington, DC 20503

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TITLE: The United States Budget in Brief - Fiscal
Year 1978

84 p.

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KEYWORDS: BUDGETS; FORECASTING; ECONOMIC POLICY;
GOVERNMENT POLICIES; ENERGY POLICY; TAXES;
TABLES (DATA)

AVAILABILITY: GPO, Stock No. 041-001-00133-6

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Research Laboratories; Science Application
Inc., Combustion and Propulsion Technology
Division
ADDRESS: ERGE, P.O. Box 8, Linden, NJ 07036;
SAI, 20335 Ventura Boulevard, Suite 423,
Woodland Hills, CA 91364
TITLE: Fundamental Characterization of Alternate
Fuel Effects in Continuous Combustion Systems

Report No. TID-28463, Technical Progress Report
No. 1, v.p.

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SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ALTERNATE FUELS; COMBUSTION; CHEMICAL
PROPERTIES; MODELS; COMBUSTION PROPERTIES;
MODELS; GAS TURBINE ENGINES; HYDROGEN;
NITROGEN; THERMODYNAMIC PROPERTIES; TURBULENT
FLOW; DROPLETS; SPRAYS; DECOMPOSITION;
OXIDATION; GRAPHS (CHARTS)
AVAILABILITY: NTIS

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Fairweather, R.G.
Perkins Engines Co.
ADDRESS: United Kingdom
TITLE: Gas Emissions and Fuel Economy of the
Light Duty Diesel Truck

Paper No. 770256, presented at the Society of
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February 28-March 4, 1977, 12 p.

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SPONSOR: Society of Automotive Engineers
KEYWORDS: COMPUTERIZED SIMULATION; TRUCKS; DIESEL
ENGINES; AUTOMOTIVE EMISSIONS; CARBON
MONOXIDE; NITROGEN DIOXIDE; HYDROCARBONS;
GRAPHS (CHARTS); FUEL ECONOMY; TESTING; WEIGHT
AVAILABILITY: Society of Automotive Engineers,
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

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Faucett (Jack) Associates Inc.
ADDRESS: 5454 Wisconsin Avenue, Chevy Chase, MD
20015
TITLE: Update to the National Energy Accounts:
Energy Flows in the U.S., 1973 and 1974.
Volume II. Program Documentation

Final report, Report No. JACKFAU-77-176-2, v.p.

1977, September
SPONSOR: Federal Energy Administration
KEYWORDS: ENERGY FLOW; TABLES (DATA); COMPUTER
PROGRAMS

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20015
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Volume 1: Methodology

Vital Report, 170 p.

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SPONSOR: Federal Energy Administration, Office of Energy Systems Data

KEYWORDS: ENERGY SUPPLIES; PRODUCTION; IMPORTS; PRICES; ENERGY CONSUMPTION; MANUFACTURING; INDUSTRIAL SECTOR; MINING; TRANSPORTATION; AGRICULTURE; CONSTRUCTION; UTILITIES; COMMERCIAL SECTOR; EXPORTS; ENERGY CONVERSION; ENERGY FLOW; ELECTRIC POWER DEMAND; TABLES (DATA); RESIDENTIAL SECTOR; NATURAL GAS; PUEL OIL; FOSSIL FUELS

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Fazzolare, R.A. (ed.); Smith, C.B. (ed.)
Interdisciplinary Group for Ecology, Development, and Energy (EDEM); Arizona, University of, Dept. of Engineering, Energy Systems Engineering Program

ADDRESS: EDEM, P.O. Box 64369, Los Angeles, CA 90064; UA, Tucson, AR 85721

TITLE: Energy Use Management: Proceedings of the International Conference. Volumes I and II

Conference held at Tucson, Arizona, October 24-28, 1977, 1033 p. for Volume I, 734 p. for Volume II

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KEYWORDS: TRANSPORTATION; AUTOMOBILES; FUEL ECONOMY; ELECTRIC VEHICLES; HYBRID ELECTRIC-POWERED VEHICLES; VEHICLES; URBAN TRANSPORTATION; PUBLIC TRANSPORTATION; INTERCITY TRANSPORTATION; CARGO TRANSPORTATION; RAIL TRANSPORTATION; PIPELINES; TELECOMMUNICATION; AGRICULTURE; LIVESTOCK; PRODUCTION; FOOD INDUSTRY; OPEC; DEVELOPING COUNTRIES; NUCLEAR ENERGY; ENERGY SUPPLIES; LAND USE; TECHNOLOGY; ENERGY CONSERVATION; ENERGY MANAGEMENT; ECONOMICS; ENERGY DEMAND; UNCONVENTIONAL ENERGY SOURCES; ACCOUNTING; INDUSTRIAL SECTOR; ENERGY CONSUMPTION; PERFORMANCE; DESIGN; WASTE HEAT; HEAT RECOVERY; NATURAL GAS; COAL; LOAD MANAGEMENT; ELECTRIC POWER; INDUSTRIES; COMMERCIAL SECTOR; AIR CONDITIONING; SPACE HEATING; BUILDINGS; STANDARDS; CONSTRUCTION; COMPUTERIZED SIMULATION; OPERATION; RESIDENTIAL SECTOR; HUMAN COMFORT; APPLIANCES; SOLAR ENERGY

AVAILABILITY: Pergamon Press, Maxwell House, Fairview Park, Elmsford, New York, NY 10523

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Federal Energy Administration, Office of Energy Conservation and Environment, Marketing Office

ADDRESS: Washington, DC 20461

TITLE: Consumers' Attitudes, Knowledge, and Behavior Regarding Energy Conservation

Report No. FEA/D-76/469, 200 p.

1976, December

KEYWORDS: CONSUMERS; ATTITUDES; BEHAVIOR; ENERGY CONSERVATION; SURVEYS; GASOLINE; NATURAL GAS; TRANSPORTATION; RESIDENTIAL SECTOR; TABLES (DATA); INFORMATION; HOUSES; SPACE HEATING; AUTOMOBILES

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Federal Energy Administration, Office of Energy Information and Analysis, Office of Data and Analysis

ADDRESS: Washington, DC 20461

TITLE: Project Independence Evaluation System (PIES) Documentation. Volume 2. PIES

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Volume 2 of 15 volumes, Report No. PB-265822, FEA/N-76/412, 47 p.

1976, September

KEYWORDS: ENERGY DEMAND; PROJECT INDEPENDENCE; ECONOMETRIC MODELS; PETROLEUM PRODUCTS; NATURAL GAS; ELECTRIC POWER; COAL; RESIDENTIAL SECTOR; COMMERCIAL SECTOR; INDUSTRIAL SECTOR; TRANSPORTATION; SIMULATION; ENERGY MODELS; TABLES (DATA)

AVAILABILITY: NTIS

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Federal Energy Administration, Office of Energy Information and Analysis, Office of Data and Analysis

ADDRESS: Washington, DC 20461

TITLE: Project Independence Evaluation System (PIES) Documentation. Volume 14. A User's Guide

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1977, June

KEYWORDS: FORECASTING; MODELS; COMPUTER PROGRAMS; DATA BASES; ALTERNATE FUELS; COMPARATIVE EVALUATIONS; PROJECT INDEPENDENCE; US FEA; ENERGY DEMAND; ENERGY SUPPLIES; PETROLEUM; NATURAL GAS; COAL; ELECTRIC UTILITIES; ECONOMICS; TRANSPORTATION

AVAILABILITY: NTIS

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Federal Energy Administration, Office of Energy Information and Analysis, Office of Data and Analysis; ICF Inc.

ADDRESS: FEA, Washington, DC; ICF, 1990 H Street NW, Suite 400, Washington, DC 20461

TITLE: Project Independence Evaluation System (PIES) Documentation. Volume 6. Methodology for Improving the Price Sensitivity of the PIES Oil and Gas Supply Curves

Volume 6 of 15 volumes, Report No. PB-264069, FEA/N-76/416, 44 p.

1976, September

KEYWORDS: PROJECT INDEPENDENCE; PRICES; PETROLEUM; NATURAL GAS; SUPPLY (ECONOMICS); ENERGY MODELS; RESERVES; GEOLOGY; ECONOMIC MODELS; ENERGY SUPPLIES

AVAILABILITY: NTIS

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Federal Energy Administration, Office of Energy Information and Analysis, Office of Data and Analysis; ICF Inc.

ADDRESS: FEA, Washington, DC; ICF, 1990 H Street, NW, Suite 400, Washington, DC 20036

TITLE: Project Independence Evaluation System (PIES) Documentation. Volume 8. Methodology for Enabling the PIES Oil and Gas Supply Curves to Respond to Non-Constant Prices

Volume 8 of 15 volumes, Report No. PB-265086, FEA/N-76/418, 42 p.

1976, September

KEYWORDS: PETROLEUM; NATURAL GAS; PROJECT INDEPENDENCE; SUPPLY (ECONOMICS); PRICES; ENERGY SUPPLIES; INVESTMENTS

AVAILABILITY: NTIS

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Federal Energy Administration, Office of Energy Information and Analysis, Office of Data and Analysis; ICF Inc.
ADDRESS: FEA, Washington, DC; ICF, 1990 H Street, N.W., Suite 400, Washington, DC 20036
TITLE: Project Independence Evaluation System (PIES) Documentation. Volume 9. Allocation of Supply Activity to Oil and Natural Gas in the FEA Oil and Gas Supply Model

Volume 9 of 15 volumes, Report No. PB-265772, FEA/N-76/419, 68 p.
1976, September
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AVAILABILITY: NTIS

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Federal Energy Administration, Office of Energy Information and Analysis, Office of Data and Analysis; ICF Inc.
ADDRESS: FEA, Washington, DC; ICF, 1990 H Street, N.W., Suite 400, Washington, DC 20036
TITLE: Project Independence Evaluation System (PIES) Documentation. Volume 13. Coal and Electric Utility Conventions for PIES

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1976, September
KEYWORDS: COAL; COAL MINES; FORECASTING; ELECTRIC UTILITIES; ENERGY MODELS; PROJECT INDEPENDENCE; CAPACITY; PRICES; SUPPLY (ECONOMICS); TABLES (DATA)
AVAILABILITY: NTIS

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Federal Energy Administration, Office of Energy Information and Analysis, Office of Data and Analysis; Logistics Management Institute
ADDRESS: FEA, Washington, DC; LMI, 4701 Sangamore Road, Washington, DC 20016
TITLE: Project Independence Evaluation System (PIES) Documentation. Volume I: The Integrating Model of the Project Independence Evaluation System

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1976, September
KEYWORDS: MODELS; ENERGY POLICY; FORECASTING; FOSSIL FUELS; PROJECT INDEPENDENCE; ENERGY DEMAND; ENERGY SUPPLIES; COAL; PETROLEUM; NATURAL GAS; PRODUCTION; REFINERIES; ELECTRIC UTILITIES; SYNTHETIC FUELS; TRANSPORTATION; RAIL TRANSPORTATION; BARGES; PIPELINE TRANSPORTATION; ELECTRIC POWER; PRICES; TABLES (DATA); ENERGY CONSERVATION
AVAILABILITY: NTIS

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TITLE: Findings and Views Concerning the Exemption of Motor Gasoline from the Mandatory Petroleum Allocation and Price Regulations. Final Report

Report No. FEA/H-77/337, v.p.
1977, September
KEYWORDS: ENERGY POLICY; GASOLINE; PETROLEUM; PRICES; ALLOCATIONS; REGULATIONS; TABLES (DATA); GRAPHS (CHARTS); SALES; MARKET; DEMAND (ECONOMICS); SUPPLY (ECONOMICS);

CONSUMER PRICE INDEX; ECONOMIC IMPACT; HISTORY; PETROLEUM REFINERIES; CAPACITY
AVAILABILITY: GPO

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ADDRESS: Washington, DC
TITLE: Natural Gas Transported in 1974 by FCC Regulated Pipelines: Geographic Flow Patterns and Intercompany Relationships

556 p.
1976, August
KEYWORDS: NATURAL GAS; PIPELINE TRANSPORTATION; ENERGY SUPPLIES; SHIPMENTS; INTERSTATE TRANSPORTATION; TABLES (DATA); MARKET; STATE ANALYSIS; ENERGY CONSUMPTION; REGIONAL ANALYSIS; GAS INDUSTRY; GAS FLOW

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Fels, M.F.
Princeton University, Center for Environmental Studies
ADDRESS: Princeton, NJ
TITLE: Driving Cycles for Fuel Economy Testing Summary

14 p.
1977, August
KEYWORDS: FUEL ECONOMY; TESTING; AUTOMOBILE DRIVERS; AUTOMOTIVE EMISSIONS; VEHICLE MILES TRAVELED; ELECTRIC VEHICLES; TABLES (DATA); ENVIRONMENTAL PROTECTION AGENCY; DRIVING CYCLE

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Pendell, F.
TRW Inc., Defense and Space Systems Group
ADDRESS: One Space Park, Redondo Beach, CA 90278
TITLE: Wall Quench and Flammability Limit Effects on Exhaust Hydrocarbon Emission. Final Report, Phase 2, October 1, 1976 - September 30, 1977

Report No. TID-28169, v.p.
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KEYWORDS: AUTOMOTIVE ENGINEERING; TECHNOLOGY; SPARK IGNITION ENGINES; INTERNAL COMBUSTION ENGINES; STANDARDS; AUTOMOTIVE EMISSIONS; HYDROCARBONS; COMBUSTION; HEAT LOSS; TESTING; MODELS; DIAGRAMS
AVAILABILITY: NTIS

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Fleet Owner
ADDRESS: 1221 Avenue of the Americas, New York, NY 10020
TITLE: Fleet Owner Marketing Handbook, Number Four

32 p.
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KEYWORDS: AUTOMOTIVE FLEETS; MARKETING; HANDBOOKS; OWNERS; MARKET; TRUCKS; VEHICLES; REGIONAL ANALYSIS; BUSES (VEHICLES); URBAN AREAS; SALES; FORECASTING; STATISTICS; TABLES (DATA); GRAPHS (CHARTS); VEHICLE REGISTRATIONS

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Fleming, R.D.; Campbell, A.D.

<226>

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ADDRESS: Bartlesville, OK
TITLE: An Investigation of Fuel Economy Potential
of Six 1976-Model Vehicles

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1977, July

KEYWORDS: TABLES (DATA); GRAPHS (CHARTS); FUEL
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URBAN TRANSPORTATION; AUTOMOTIVE EMISSIONS;
COMPARATIVE EVALUATIONS; ENERGY CONSERVATION
AVAILABILITY: NTIS

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Florida Dept. of Administration, State Energy
Office

TITLE: Monthly Florida Motor Gasoline
Consumption: January 1968 through December
1976

43 p.

1977, June

KEYWORDS: FLORIDA; GASOLINE; CONSUMPTION; STATE
GOVERNMENT; PLANNING; URBAN AREAS; REGIONAL
ANALYSIS; MAPS; TABLES (DATA)

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Plott, A.C.; Batts, L.R.; Roth, R.D.
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Research and Transport Economics
ADDRESS: 1616 P Street NW, Washington, DC 20036
TITLE: The Ton-Mile: Does It Properly Measure
Transportation Output?

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Transportation Research Board, published in
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"Transportation Characteristics of Truck,
Rail, and Water Freight," pp.19-26

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KEYWORDS: TRANSPORTATION; MEASUREMENT; CARGO
TRANSPORTATION; HISTORY; HIGHWAY
TRANSPORTATION; RAIL TRANSPORTATION; TRUCKS;
FUEL CONSUMPTION; COMPARATIVE EVALUATIONS

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Flynn, L.

U.S. Dept. of Transportation, National Highway
Traffic Safety Administration, Technical
Reference Division
ADDRESS: Washington, DC 20590
TITLE: Recreational Vehicles: A Subject
Bibliography from Highway Safety Literature

Report No. PB-271237, DOT HS-802 483, 105 p.

1977, July

KEYWORDS: BIBLIOGRAPHIES; RECREATION VEHICLES;
ABSTRACTS; VANS; MOBILE HOMES;
TRANSPORTATION; SAFETY
AVAILABILITY: NTIS

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Flynn, L.

U.S. Dept. of Transportation, National Highway
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ADDRESS: Washington, DC 20590
TITLE: Motor Vehicle Titling and Registration: A
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1977, June

KEYWORDS: BIBLIOGRAPHIES; ABSTRACTS; VEHICLES;
VEHICLE REGISTRATIONS; SAFETY; REGIONAL
ANALYSIS; AUTOMOBILES; MOTORCYCLES; HIGHWAY
TRANSPORTATION
AVAILABILITY: NTIS

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Forbes, C.E.; Wosack, R.R.
California Dept. of Transportation; McKinsey and
Co. Inc.
ADDRESS: MC, San Francisco, CA
TITLE: A New Direction for the Highway Program

Report presented at the 54th Annual Meeting of
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1976

KEYWORDS: HIGHWAYS; CONSTRUCTION; CALIFORNIA;
STATE GOVERNMENT; PLANNING; SAFETY; OPERATING
COSTS; FINANCING; GRAPHS (CHARTS);
FORECASTING; MANAGEMENT

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.60 for Transportation Research Record 585

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Fort, F.W.

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ADDRESS: Washington, DC
TITLE: Walk Time from Vehicle to Final Destination

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1973

SPONSOR: National Academy of Sciences, National
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KEYWORDS: WALKING; SURVEYS; DISTANCE; TABLES
(DATA); TRAVEL TIME

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.00 for Highway Research Record No. 439

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Foster, R.W.

Miami, University of, Ryder Program in
Transportation; Escher Technology Associates
ADDRESS: UM, Coral Gables, FL 33124; ETA, St
John's, MI
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1978, June

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Transportation Energy Conservation
KEYWORDS: ALTERNATE FUELS; TRUCKS; INTERCITY
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CONSERVATION; DIESEL ENGINES; TRACTORS;
INTERNAL COMBUSTION ENGINES; FUEL
CONSUMPTION; HIGHWAY TRANSPORTATION;
OWNERSHIP; EMPTY BACKHAUL; ENERGY RESOURCES;
COMMERCIALIZATION; DESIGN; DEMONSTRATION;
TABLES (DATA); DIAGRAMS
AVAILABILITY: NTIS

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Foster, R.W.; Escher, W.J.D.
Escher Technology Associates
ADDRESS: St. Johns, MI
TITLE: Hydrogen-Fueled Railroad Motive Power

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Report No. CONS/4707-1, ETA-PR-70, 250

1976, September

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy ConservationKEYWORDS: HYDROGEN FUELS; RAIL TRANSPORTATION;
ALTERNATE FUELS; FEASIBILITY; LOCOMOTIVES;
DIESEL ENGINES; INTERNAL COMBUSTION ENGINES;
MODIFICATIONS; PERFORMANCE; PHOTOGRAPHS;
TABLES (DATA); GRAPHS (CHARTS)

AVAILABILITY: NTIS

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Prabetti, A.J., Jr.; Wilcock, D.K.; Lovell, R.A.,
Jr.; Gordon, M.; Maddox, F.; Sheldon, C., II;
Westfield, J.D.

Development Sciences Inc.

ADDRESS: East Sandwich, MA

TITLE: Application of New Energy Analysis to
Consumer Technologies

Report No. ERDA 77-14, 371 p.

1977, February

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Administration, Office of Planning, Analysis,
and EvaluationKEYWORDS: NET ENERGY; ENERGY CONSUMPTION; ENERGY
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SPACE HEATING; HOT WATER HEATING; AIR
CONDITIONING; ELECTRIC POWER; NATURAL GAS;
PETROLEUM; COAL; SOLAR SPACE HEATING; HEAT
PUMPS; ANNUAL CYCLE ENERGY SYSTEM; STEAM;
ELECTRIC POWER; AUTOMOBILES; ELECTRIC
VEHICLES; TRANSPORTATION; INPUT-OUTPUT
ANALYSIS; TABLES (DATA); NUCLEAR ENERGY;
GEOTHERMAL ENERGY; HYDROELECTRIC POWER;
INDUSTRIAL SECTOR

AVAILABILITY: NTIS

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Praize, W.E.

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ADDRESS: Westgate Park, McLean, VA

TITLE: The Impact of the U.S. Energy Situation on
High Speed Ground TransportationReport No. PB-261805, PRA-OR6D 75-63, HTR-6808,
84 p.

1975, December

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Railroad Administration, Office of Research
and DevelopmentKEYWORDS: ENERGY SUPPLIES; TRANSPORTATION; RAPID
TRANSIT SYSTEMS; RESEARCH; FUEL CONSUMPTION;
RAIL TRANSPORTATION; BUSES (VEHICLES); ENERGY
INTENSITY; ENERGY CONSUMPTION; GRAPHS (CHARTS)

AVAILABILITY: NTIS

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Boston College, Laboratory of Psychosocial Studies

ADDRESS: Chestnut Hill, MA

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Program; American Association of State
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Dept. of Transportation, Federal Highway
AdministrationKEYWORDS: TRANSPORTATION; TRAVEL; BEHAVIOR;
SOCIO-ECONOMIC FACTORS; URBAN TRANSPORTATION;

ATTITUDES; ENVIRONMENTAL FACTORS

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Friedenberg, H.L.; Curry, E.

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ADDRESS: Washington, DC

TITLE: Per Capita Income: Regional and
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KEYWORDS: REGIONAL ANALYSIS; INCOME; URBAN AREAS;
RURAL AREAS; MIGRATION; INDUSTRIES;
SOUTHEASTERN STATES; POPULATION (STATISTICS);
SOUTHWESTERN STATES; ROCKY MOUNTAINS;
MANUFACTURING; GRAPHS (CHARTS); LABOR
MIGRATION; EARNINGS; TABLES (DATA); STATE
ANALYSIS

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Fuller, R.F.

U.S. Dept. of Energy, Energy Information
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Studies

ADDRESS: Washington, DC 20461

TITLE: Federal Energy Data System (FEDS):
Statistical Summary

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1978, February

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FEEDSTOCKS; RAW MATERIALS; RESIDENTIAL
SECTOR; COMMERCIAL SECTOR; INDUSTRIAL SECTOR;
TRANSPORTATION; ELECTRIC UTILITIES; STATE
ANALYSIS; TABLES (DATA); GRAPHS (CHARTS)

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Gaddy, J.L.

Missouri, University of, Dept. of Chemical
Engineering

ADDRESS: Rolla, MO 65401

TITLE: Toward Establishing a National Energy
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LIQUEFACTION; COAL GASIFICATION; RESERVES;
ENERGY POLICY; ENERGY RESOURCES; NATURAL GAS;
IMPORTS; TABLES (DATA); ENERGY CONVERSION;
EFFICIENCY; SPACE HEATING; BATTERIES; FOSSIL
FUELED POWER PLANTS; PETROCHEMICALS;
TRANSPORTATION

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Galbraith, A.D.

Lockheed Missiles and Space Co. Inc., Lockheed

Palo Alto Research Laboratory

ADDRESS: Palo Alto, CA

TITLE: The Lithium-Water-Air Battery for
Automotive PropulsionPaper presented at the Fourth International
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KEYWORDS: RESEARCH; LITHIUM-WATER-AIR BATTERIES;
ELECTRIC VEHICLES; PERFORMANCE; ELECTRODES;
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Ave., New York, NY 10016 \$1.50

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Gallop Organization Inc

TITLE: Survey of Motorcycle Ownership, Usage and
Maintenance

120 p.

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SPONSOR: Motorcycle Industry Council Inc.

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ENGINES; TABLES (DATA); QUESTIONNAIRES
AVAILABILITY: Motorcycle Industry Council Inc

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Gamble, H.B.

Pennsylvania State University, Institute for
Research on Land and Water Resources

ADDRESS: University Park, PA 16802

TITLE: Transportation and Land Development:

Societal Problems and Interrelations

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SPONSOR: National Academy of Sciences,

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DEVELOPMENT; MOBILITY; SOCIO-ECONOMIC
FACTORS; PLANNING; ENVIRONMENTAL IMPACT;
URBAN AREAS; GROWTH

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$6.00 for Transportation Research Record No.
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Gay, W.F.

U.S. Dept. of Transportation, Transportation
Systems Center

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: National Transportation Statistics

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SPONSOR: U.S. Dept. of Transportation, Technology

Sharing Program Office

KEYWORDS: PASSENGER TRANSPORTATION; CARGO
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TRANSPORTATION; WATER TRANSPORTATION;
PIPELINE TRANSPORTATION; PETROLEUM; NATURAL
GAS; GRAPHS (CHARTS); TABLES (DATA); REVENUE;
COSTS; STATISTICS; TRANSPORTATION; ENERGY
CONSUMPTION; PERFORMANCE; ENERGY DEMAND;
GASOLINE; INTERCITY TRANSPORTATION; PRICES;
EARNINGS; INVENTORIES; FINANCIAL DATA;
MANPOWER

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U.S. Dept. of Transportation, Transportation
Systems Center

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: National Transportation Statistics
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SPONSOR: U.S. Dept. of Transportation, Research

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KEYWORDS: PASSENGER TRANSPORTATION; CARGO
TRANSPORTATION; PERFORMANCE; GASOLINE;
INTERCITY TRANSPORTATION; AIR TRANSPORTATION;
AUTOMOBILES; TRUCKS; BUSES (VEHICLES); RAIL
TRANSPORTATION; PRICES; EARNINGS;
INVENTORIES; FINANCIAL DATA; WATER
TRANSPORTATION; PIPELINE TRANSPORTATION;
NATURAL GAS; GRAPHS (CHARTS); TABLES (DATA);
REVENUE; COSTS; STATISTICS; ENERGY
CONSUMPTION; PETROLEUM

AVAILABILITY: GPO

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ADDRESS: Washington, DC 20548

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Report No. PB-271249, CED-77-98, 75 p.

1977, August 17

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FACTOR; NOISE POLLUTION; AIRPORTS; GOVERNMENT
POLICIES

AVAILABILITY: NTIS

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ADDRESS: Washington, DC

TITLE: Report to the Congress: An Evaluation of
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Report No. EMD-77-48, v.p.

1977, July 25

SPONSOR: U.S. House of Representatives, Committee

on Interstate and Foreign Commerce,

Subcommittee on Energy and Power

KEYWORDS: NATIONAL ENERGY PLAN; ENERGY SHORTAGES;
ENERGY CONSERVATION; FORECASTING; GOVERNMENT
POLICIES; ENERGY DEMAND; TRANSPORTATION;
RESIDENTIAL SECTOR; INDUSTRIAL SECTOR;
COMMERCIAL SECTOR; ENERGY CONVERSION;
GASOLINE; BUILDINGS; PETROLEUM; NATURAL GAS;
TAXES; COAL; NUCLEAR ENERGY; UNCONVENTIONAL
ENERGY SOURCES; RESEARCH

AVAILABILITY: \$1.00

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ADDRESS: Schenectady, NY 12301

TITLE: Near-Term Electric Vehicle Program: Phase
I, Final Report

Report No. SAN/1294-1, 155 p.

1977, August

SPONSOR: Energy Research and Development

Administration, San Francisco Operations

Office

KEYWORDS: ELECTRIC VEHICLES; DESIGN; TABLES
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PERFORMANCE; COSTS; URBAN TRANSPORTATION;
BATTERIES

AVAILABILITY: NTIS

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 ADDRESS: Warren, MI 48090
 TITLE: General Motors Response to Proposed Fuel Economy and Emissions Testing and Other Procedures for 1978 and Later Model Automobiles

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 1977, July 5

KEYWORDS: ENVIRONMENTAL PROTECTION AGENCY; FUEL ECONOMY; TABLES (DATA); FORECASTING; TRANSPORTATION; AUTOMOBILES; AUTOMOBILE TRANSMISSIONS; PASSENGER TRANSPORTATION; SIZE; MANUFACTURERS; CAPACITY; DESIGN; HISTORY; TESTING; CLASSIFICATIONS; AUTOMOTIVE EMISSIONS

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 ADDRESS: Washington, DC
 TITLE: Definition Study for a Wet Energy Assessment: The Washington, D.C. Metrorail System. Volumes I and II (Appendices)

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SPONSOR: Energy Research and Development Administration
 KEYWORDS: URBAN TRANSPORTATION; WASHINGTON DC; RAPID TRANSIT SYSTEMS; ENERGY CONSERVATION; ENERGY DEMAND; US ERDA; BENEFIT COST ANALYSIS; CONSTRUCTION; PLANNING; ENERGY SHORTAGES; INPUT-OUTPUT ANALYSIS; ENERGY CONSUMPTION; COMPARATIVE EVALUATIONS; PASSENGER TRANSPORTATION; SOCIO-ECONOMIC FACTORS

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 ADDRESS: 1776 Massachusetts Ave. NW, Washington, DC
 TITLE: Energy Analysis: A New Public Policy Tool

AAAS Selected Symposium 9, 110 p.
 1978

KEYWORDS: INPUT-OUTPUT ANALYSIS; ENERGY FLOW; INCOME; ECONOMIC ANALYSIS; PLANNING; SUPPLY (ECONOMICS); DEMAND (ECONOMICS); EMPLOYMENT; LABOR INTENSITY; ENERGY POLICY; ENVIRONMENTAL IMPACT; DIAGRAMS; US ERDA; COSTS; INDUSTRIAL SECTOR; RESIDENTIAL SECTOR; TRANSPORTATION; RESEARCH; DEVELOPMENT; THERMODYNAMICS; GOVERNMENT POLICIES; ENERGY CONSUMPTION; DIAGRAMS

AVAILABILITY: Westview Press, 5500 Central Avenue, Boulder, CO

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1977, April

SPONSOR: U.S. Dept. of Transportation, Federal Highway Administration, Office of Highway Planning

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 AVAILABILITY: NTIS

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 ADDRESS: CU, Boulder, CO 80302; TPA, Salt Lake City, UT 84108
 TITLE: Travel Research Bibliography: A Bibliography of the Holdings of the Travel Reference Center

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 ADDRESS: Menlo Park, CA 94025
 TITLE: Diesel Cars in the United States

72 p.

1978, August

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
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 ADDRESS: Box 5456, Santa Barbara, CA 93108
 TITLE: Relation Between Efficiency and Range of Electric Vehicles

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 AVAILABILITY: NTIS

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 Abcor Inc., Walden Research Division
 ADDRESS: 359 Allston St., Cambridge, MA 02139
 TITLE: Development of a Methodology to Allocate Liquid Fossil Fuel Consumption by County

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SPONSOR: U.S. Environmental Protection Agency, Office of Air and Water Programs, Office of Air Quality Planning and Standards
 KEYWORDS: REGIONAL ANALYSIS; FUEL CONSUMPTION;

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GASOLINE; DIESEL FUELS; FOSSIL FUELS; TABLES (DATA); GRAPHS (CHARTS); DATA BASES; SULFUR; ALLOCATIONS; VEHICLES; RESIDENTIAL SECTOR; INDUSTRIAL SECTOR; COMMERCIAL SECTOR; RESIDUAL OILS; DISTILLATES; FUEL OIL; COMPUTER PROGRAMS; SEASONAL VARIATIONS
 AVAILABILITY: NTIS

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 ADDRESS: P.O. Box 1025, Princeton, NJ 08540
 TITLE: A Synthesized Engine Oil Providing Fuel Economy Benefits

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 SPONSOR: Society of Automotive Engineers, Milwaukee Section
 KEYWORDS: AUTOMOTIVE ENGINES; PERFORMANCE; FUEL ECONOMY; LUBRICATING OILS; COMPARATIVE EVALUATIONS; TESTING; IMPORTS
 AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 for SAE SP-411

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 General Motors Corp., Research Laboratories, Transportation and Urban Analysis Dept.
 ADDRESS: Warren, MI 48090
 TITLE: Comparison of Segmentations for Modeling Consumers' Preferences for Transportation Modes

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 KEYWORDS: MODELS; CONSUMERS; ATTITUDES; MARKET; OTTAWA-CARLETON (CANADA); TRANSPORTATION; PLANNING; URBAN TRANSPORTATION; DEMOGRAPHY; SOCIO-ECONOMIC FACTORS; TRAVEL; DEMAND (ECONOMICS); FORECASTING; SURVEYS; TABLES (DATA); GRAPHS (CHARTS); TRANSPORTATION MODE CHOICE

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 ADDRESS: Los Angeles, CA
 TITLE: Use of Natural Gas as a Primary Vehicular Fuel for a Public Utility Fleet

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 AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096

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 New York State Dept. of Transportation, Planning

Division
 ADDRESS: Albany, NY 12232
 TITLE: Automotive Energy Use: A Baseline Projection for New York State

Preliminary Research Report 124, 47 p.
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 KEYWORDS: NEW YORK; ENERGY CONSERVATION; FORECASTING; AUTOMOBILES; FUEL CONSUMPTION; EFFICIENCY; GROWTH; VEHICLES; GASOLINE; VEHICLE REGISTRATIONS; TABLES (DATA); REGIONAL ANALYSIS; FUEL ECONOMY; HIGHWAY TRANSPORTATION; URBAN TRANSPORTATION; VEHICLE MILES TRAVELED

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 ADDRESS: 711 Third Ave, New York, NY
 TITLE: Energy Efficiency Improvement Targets: Petroleum and Coal Products (SIC 29). Volume 2: Technical Appendices

Report No. PB-269816, PEA/D-77/245, v.p.
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 AVAILABILITY: NTIS

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 U.S. Dept. of Transportation, Transportation Systems Center
 ADDRESS: Kendall Square, Cambridge, MA 02142
 TITLE: Highway Fuel Consumption Computer Model: Version 1

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 1974, April
 SPONSOR: U.S. Dept. of Transportation, Office of the Assistant Secretary for Systems Development and Technology; U.S. Dept. of Transportation, Office of the Assistant Secretary for Policy and International Affairs
 KEYWORDS: MODELS; AUTOMOBILES; FUEL CONSUMPTION; HIGHWAY TRANSPORTATION; VEHICLE MILES TRAVELED; VEHICLE REGISTRATIONS; MILEAGE; GRAPHS (CHARTS)
 AVAILABILITY: NTIS

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 U.S. Environmental Protection Agency; U.S. Dept. of Energy, Assistant Secretary for Conservation and Solar Applications, Transportation Planning Office
 ADDRESS: Washington, DC
 TITLE: Vanpooling: An Update

Report No. DOE/CS-0031, 71 p.
 1978, May
 KEYWORDS: VANPOOLS; STATE ANALYSIS; COSTS; BIBLIOGRAPHIES; OWNERSHIP; GROWTH; OPERATION
 AVAILABILITY: GPO

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U.S. Dept. of Labor, Bureau of Labor Statistics
ADDRESS: Washington, DC 20212
TITLE: Employment and Earnings

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OCCUPATIONS; SEASONAL VARIATIONS; MONTHLY
VARIATIONS; STATISTICS; STATE ANALYSIS;
UNEMPLOYMENT
AVAILABILITY: GPO

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1978, May
SPONSOR: U.S. Dept. of Energy, Assistant
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KEYWORDS: VANPOOLS; MARKETING; COMMUTERS;
OWNERSHIP; VANS; CORPORATIONS; INCENTIVES;
PLANNING; PARKING; ADVERTISING
AVAILABILITY: GPO, Stock No. 061-000-00083-6

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Greene, D.L.; O'Connor, T.P.
Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: An Investigation of the Variability of
Gasoline Consumption Among States

Report No. ORNL-5391, 61 p.
1978, April
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Data
Analysis Branch
KEYWORDS: DETERMINANTS; GASOLINE; FUEL
CONSUMPTION; MODELS; STATE ANALYSIS;
SOCIO-ECONOMIC FACTORS; AGE GROUPS;
EMPLOYMENT; TOURISM; VEHICLE MILES TRAVELED;
VEHICLE REGISTRATIONS; AUTOMOBILES;
OWNERSHIP; AUTOMOBILE DRIVERS; ENERGY DEMAND;
COMPARATIVE EVALUATIONS
AVAILABILITY: NTIS

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TITLE: Marketing Plan to Accelerate the Use of
Vanpools

Report No. MCP/H60437-01, 83 p.
1977, December
SPONSOR: U.S. Dept. of Energy, Office of
Conservation and Solar Applications
KEYWORDS: VANPOOLS; PASSENGER TRANSPORTATION;
ADVERTISING; MARKETING; PLANNING; COSTS;
HUMAN COMFORT

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Rose, A.B.; Shonka, D.B.
Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: Regional Transportation Energy
Conservation Data Book. Edition 1

Report No. ORNL-5435 Special, 530 p.
1978, September
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: REGIONAL ANALYSIS; ENERGY CONSERVATION;
HIGHWAY TRANSPORTATION; FUEL CONSUMPTION; AIR
TRANSPORTATION; RAIL TRANSPORTATION; MARINE
TRANSPORTATION; PIPELINE TRANSPORTATION;
POPULATION (STATISTICS); ENERGY SUPPLIES;
STATE ANALYSIS; TABLES (DATA); INTERNATIONAL
ANALYSIS; VEHICLE MILES TRAVELED; MAPS;
GRAPHS (CHARTS); TRANSPORTATION MODE CHOICE;
TRAVEL; GASOLINE; AUTOMOBILES; TRUCKS; BUSES
(VEHICLES); DIESEL FUELS; NATURAL GAS;
TONNAGE; BOATS; CARGO TRANSPORTATION;
FORECASTING; IMPORTS; PETROLEUM; COMPARATIVE
EVALUATIONS
AVAILABILITY: NTIS

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Grier, E.S.
Grier Partnership
ADDRESS: 6532 E. Halbert Road, Bethesda, MD 20034
TITLE: Energy Consumption, Income, and Housing

Paper presented at Colloquium on Energy and
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1977, March 30
KEYWORDS: ENERGY CONSUMPTION; INCOME; HOUSING;
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POWER METERS; ENERGY CONSERVATION; OWNERSHIP;
MILEAGE; GASOLINE; PRICES; AGE GROUPS; ENERGY
POLICY

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Gronau, R.
Hebrew University
ADDRESS: Jerusalem, Israel
TITLE: Economic Approach to Value of Time and
Transportation Choice

Paper published in Transportation Research Record
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1976
SPONSOR: National Academy of Sciences,
Transportation Research Board
KEYWORDS: TRAVEL TIME; TRANSPORTATION; ECONOMIC
ANALYSIS; VEHICLE TRIPS; GRAPHS (CHARTS);
DISTANCE
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.40 for Transportation Research Record 587

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Greenshields, B.D.; Weida, P.N.; Gerlough, D.L.;
Huber, H.J.
ENO Foundation for Transportation Inc.
ADDRESS: Box 55, Saugatuck Station, Westport, CT
06880
TITLE: Statistics with Application to Highway
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Second Edition, 179 p.
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KEYWORDS: STATISTICS; HIGHWAY TRANSPORTATION;
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Guess, R.H.; Lustenader, E.L.
General Electric Co.
ADDRESS: New York, NY
TITLE: Development of a High Performance and

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Electric Vehicle Drive

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Dusseldorf, Germany, August 31 - September 2,
1976, 28 p.

1976, September

KEYWORDS: FLYWHEELS; ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; ELECTRIC VEHICLES;
BATTERIES; TESTING; TECHNOLOGY; DESIGN;
GRAPHS (CHARTS)

AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Gulf Research and Development Co.

ADDRESS: Pittsburgh, PA

TITLE: Passenger Car Fuel Economy in Short Trip
Operation: Alternative Fuels Utilization
Program

Report No. HCP/W4248, v.p.

1978, July

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation

KEYWORDS: VEHICLE TRIPS; DISTANCE; AUTOMOBILES;
FUEL ECONOMY; GASOLINE; FUEL ADDITIVES;
TESTING; DRIVING CYCLE; DYNAMOMETERS; OCTANE;
SEASONAL VARIATIONS; AUTOMOTIVE EMISSIONS

AVAILABILITY: GPO, Stock No. 061-000-00112-3

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Brookhaven National Laboratory, National Center
for Analysis of Energy Systems, Technology
Assessment Group

ADDRESS: Upton, NY 11973

TITLE: A Study of Potential Coal Utilization:
1985-2000

Report No. BNL 50771, 193 p.

1977, December

SPONSOR: U.S. Dept. of Energy

KEYWORDS: COAL; UTILIZATION; FORECASTING; FUEL
CONSUMPTION; NATURAL GAS; REGIONAL ANALYSIS;
CARGO TRANSPORTATION; SLURRY PIPELINES;
SYNTHETIC FUELS; MARKET; COSTS; PRODUCTION;
ENERGY SUPPLIES; PETROLEUM; ALLOCATIONS;
TABLES (DATA)

AVAILABILITY: NTIS

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Haefele, K.

Adam Opel AG

ADDRESS: Germany

TITLE: Considerations in Redesigning a Gasoline
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1977

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KEYWORDS: DIESEL ENGINES; ENGINES; AUTOMOTIVE
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AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
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Hagen, D.L.

TITLE: Methanol: Its Synthesis, Use as a Fuel,
Economics, and Hazards (Excerpts)

Report No. NP-21727, A Thesis submitted to the
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1976, December

SPONSOR: Energy Research and Development
Administration

KEYWORDS: ALTERNATE FUELS; METHANOL; PROPERTIES;
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UTILIZATION; COSTS; ECONOMIC ANALYSIS;
HAZARDS; BIBLIOGRAPHIES; ENGINES; GASOLINE
AVAILABILITY: NTIS

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Hahn, U.

Kanner (Leo) Associates

ADDRESS: Redwood City, CA 94063

TITLE: Energy Requirement for Electric Road
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Translation from Bosche Technische Berichte,
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1976, September

SPONSOR: National Aeronautics and Space
Administration

KEYWORDS: ELECTRIC VEHICLES; ENERGY FLOW;
PROPULSION; ENERGY DEMAND

AVAILABILITY: NTIS

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Hamilton, W.

General Research Corp.

ADDRESS: Santa Barbara, CA 93105

TITLE: Electric Car Technology for Demonstration
and Development

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1977

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYWORDS: ELECTRIC VEHICLES; TECHNOLOGY;
DEMONSTRATION; DEVELOPMENT; NICKEL-ZINC
BATTERIES; BATTERIES; LITHIUM-ALUMINUM/METAL
SULFIDE BATTERIES; LEAD-ACID BATTERIES;
PERFORMANCE; GRAPHS (CHARTS); ENERGY
CONSUMPTION

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Hamilton, W.

General Research Corp.

ADDRESS: Santa Barbara, CA 93105

TITLE: Urban Applications and Energy Impacts of
Future Electric Cars

Paper presented at the Fourth National Conference
on the "Effects of Energy Constraints on
Transportation Systems," held at Union
College, Schenectady, New York, on August
1-5, 1977, 22 p.

1977

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYWORDS: URBAN TRANSPORTATION; FORECASTING;

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ELECTRIC VEHICLES; AIR POLLUTION; NOISE
 POLLUTION; ENERGY CONSUMPTION; PETROLEUM;
 LIFE-CYCLE COST; LOS ANGELES; PHILADELPHIA;
 SAINT LOUIS (MISSOURI)

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Hamilton, W.
 General Research Corp.
 ADDRESS: Santa Barbara, CA
 TITLE: Basic Requirements for Urban Cars

Paper No. 780219, presented at the Society of
 Automotive Engineers' Congress and
 Exposition, Cobo Hall, Detroit, Michigan,
 February 27 - March 3, 1978, 12 p.

1978

KEYWORDS: URBAN TRANSPORTATION; AUTOMOBILE
 DRIVERS; VEHICLE MILES TRAVELED; VEHICLE
 TRIPS; SURVEYS; TRAVEL; TABLES (DATA); LOS
 ANGELES; WASHINGTON DC; OWNERSHIP; AGE GROUPS
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096 \$2.50

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Hamilton, W.; Hagey, G.
 General Research Corp; Energy Research and
 Development Administration
 ADDRESS: GRC, Santa Barbara, CA; ERDA,
 Washington, DC
 TITLE: Impacts of Future Use of Electric Cars in
 U.S. Cities

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 Electric Vehicle Symposium, held in
 Dusseldorf, Germany, August 31 - September 2,
 1976, 13 p.

1976, September

SPONSOR: Electric Vehicle Council; International
 Union of Producers and Distributors of
 Electrical Energy

KEYWORDS: ELECTRIC VEHICLES; TRANSPORTATION;
 LEAD-ACID BATTERIES; ENERGY; FORECASTING;
 GRAPHS (CHARTS); NICKEL-ZINC BATTERIES;
 COSTS; TABLES (DATA); AIR POLLUTION; SAINT
 LOUIS (MISSOURI); PHILADELPHIA; LOS ANGELES;
 GOVERNMENT POLICIES; PETROLEUM
 AVAILABILITY: Electric Vehicle Council, 90 Park
 Ave., New York, NY 10016 \$1.50

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Hamilton, W.F.
 General Research Corp.
 ADDRESS: P.O. Box 3587, Santa Barbara, CA 93105
 TITLE: Applicability of Electric Cars

Releasable Memorandum, Report No. RM-2096, 50 p.
 1977, December

SPONSOR: U.S. Dept. of Energy

KEYWORDS: AUTOMOBILE DRIVERS; DISTANCE; ELECTRIC
 VEHICLE RANGE; VEHICLE PARKING; VELOCITY;
 FORECASTING; SURVEYS; VEHICLE TRIPS; URBAN
 AREAS; LOS ANGELES; WASHINGTON DC; TABLES
 (DATA); GRAPHS (CHARTS); HIGHWAYS; PASSENGER
 TRANSPORTATION; BATTERIES; BATTERY CHARGING

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Hammer, P.
 Hammer, Siler, George Associates
 TITLE: Issues and Actions for Managing Development

Paper presented at the 5th Annual Meeting of the
 Transportation Research Board, published in

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1976

SPONSOR: National Academy of Sciences,
 Transportation Research Board
 KEYWORDS: TRANSPORTATION; PLANNING; LAND USE;
 LOCAL GOVERNMENT; GROWTH; GOVERNMENT POLICIES
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$6.00 for Transportation Research Record No.
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Hanson, E.K.
 General Motors Corp., Buick Motor Division
 TITLE: An Overall Design Approach to Improving
 Passenger Car Fuel Economy

Paper No. 780132, presented at the Society of
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 Exposition, Cobo Hall, Detroit, Michigan,
 February 27 - March 3, 1978, 21 p.

1978

KEYWORDS: FUEL ECONOMY; AUTOMOTIVE ENGINEERING;
 DESIGN; AUTOMOBILES; FUEL CONSUMPTION;
 REGULATIONS; CONSUMERS; GRAPHS (CHARTS);
 WEIGHT; MATERIALS
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096 \$2.50

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Harding, G.G.
 Lucas (Joseph) Ltd.
 ADDRESS: United Kingdom
 TITLE: High Performance Electric Commercial
 Vehicles for City Use

Paper No. 760073 presented at the Automotive
 Engineering Congress and Exposition, Detroit,
 Michigan, February 23-27, 1976, 13 p.

1976

SPONSOR: Society of Automotive Engineers
 KEYWORDS: ELECTRIC VEHICLES; TAXICABS; BUSES
 (VEHICLES); VANS; LEAD-ACID BATTERIES;
 ELECTRIC POWER DEMAND; MARKET; ECONOMICS;
 URBAN TRANSPORTATION
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096 \$2.75

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Harris, R.G.
 California, University of, School of Business
 Administration
 ADDRESS: Berkeley, CA
 TITLE: Economics of Traffic Density in the Rail
 Freight Industry

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 TRAFFIC; CARGO TRANSPORTATION; COSTS;
 ECONOMIC ANALYSIS; GOVERNMENT POLICIES; RATES
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Hartgen, D.T.
 New York State Dept. of Transportation, Planning
 Division
 ADDRESS: Albany, NY 12232
 TITLE: Ridesharing Behavior: A Review of Recent
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ADDRESS: 4800 Oak Grove Drive, Pasadena, CA
 TITLE: Costs and Energy Efficiency of a Dual-Mode System

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 AVAILABILITY: NTIS

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 KEYWORDS: INTERCITY TRANSPORTATION; PASSENGER TRANSPORTATION; DEMAND (ECONOMICS); MODELS

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Heggie, I.G. (ed.)

TITLE: Modal Choice and the Value of Travel Time

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 AVAILABILITY: Oxford University Press, Ely House, London W.I., England

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Nealy, F.G.; Hertzfeld, H.R.
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 ADDRESS: CP, 1717 Massachusetts Ave. NW, Washington, DC 20036; USDOC, Washington DC
 TITLE: Energy Conservation Strategies

An Issue Report, 50 p.

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KEYWORDS: ENERGY CONSERVATION; GOVERNMENT POLICIES; PRICES; RATIONING; ALLOCATIONS; REGULATIONS; INCENTIVES; CONSUMERS; EDUCATION; FUEL CONSUMPTION; ECONOMIC IMPACT; AUTOMOBILES; FUEL ECONOMY; STANDARDS; BUILDINGS; THERMAL INSULATION; RETROFITTING; PUBLIC TRANSPORTATION

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 Stanford Research Institute
 ADDRESS: Menlo Park, CA 94025
 TITLE: Energy Study of Automated Guideway Transit (AGT) Systems

Final Report, 100 p.

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 KEYWORDS: ENERGY DEMAND; AIRPORTS; TABLES (DATA); HISTORY; COST ESTIMATES; MAINTENANCE; OPERATING COSTS; ENERGY CONSERVATION; SERVICES; PASSENGER TRANSPORTATION; ECONOMIC ANALYSIS; ELECTRIC RAIL SYSTEMS; AUTOMATED GUIDEWAY TRANSIT

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Neck, R.M.; Chang, H.; Hess, H.; Carrubba, R.
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 ADDRESS: Menlo Park, Edison, N. 08817
 TITLE: Durability Testing at One Atmosphere of Advanced Catalysts and Catalyst Supports for Automotive Gas Turbine Engine Combustors. Part 1

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SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation
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 AVAILABILITY: NTIS

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SPONSOR: Energy Research and Development Administration
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Neft, R.C.; Borden, C.S.
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Hensher, D.A.
 Melbourne, University of; Australia Commonwealth Bureau of Roads
 ADDRESS: Melbourne, Australia
 TITLE: Review of Studies Leading to Existing Values of Travel Time

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 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$2.40 for Transportation Research Record 587

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 Gibbs, A.R.
 California Institute of Technology
 ADDRESS: Pasadena, CA 91109
 TITLE: Caltech Seminar Series on Energy
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 AVAILABILITY: NTIS

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 TITLE: Planning for the Automobile in the SCAG
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 SPONSOR: U.S. Dept. of Transportation, Federal
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 KEYWORDS: PLANNING; AUTOMOBILES; AUTOMOTIVE
 EMISSIONS; FUEL CONSUMPTION; CALIFORNIA;
 INSPECTION; MAINTENANCE; STANDARDS; FUEL
 ECONOMY; GASOLINE; ALLOCATIONS; RATIONING;
 PRICES; TAXES; VEHICLE PARKING; VEHICLE
 REGISTRATIONS; TRAFFIC CONTROL; ENERGY
 CONSERVATION; GOVERNMENT POLICIES; SPEED
 LIMITS; TABLES (DATA); FORECASTING; STATE
 GOVERNMENT
 AVAILABILITY: NTIS

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 Hill, S.H.
 Teledyne Continental Motors, General Products
 Division
 ADDRESS: 76 Getty Street, Muskegon, MI 49442
 TITLE: Automotive Diesel Technology Program:
 Final Report, Period June 1975-April 1977

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 KEYWORDS: AUTOMOBILES; DIESEL ENGINES;
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 DESIGN; AUTOMOTIVE EMISSIONS; SIMULATION;
 EXHAUST RECIRCULATION SYSTEMS
 AVAILABILITY: GPO

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 Hill, S.H.; Dodd, J.L.
 Teledyne Continental Motors, General Products
 Division

ADDRESS: Warren, MI 48093
 TITLE: A Low NO(x) Lightweight Car Diesel Engine

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 February 28-March 4, 1977, 28 p.

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 SPONSOR: Energy Research and Development
 Administration; Society of Automotive
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 AVAILABILITY: Society of Automotive Engineers,
 400 Commonwealth Avenue, Warrendale, PA 15096

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 Mobil Research and Development Corp.; Mobil Oil
 A.G.
 TITLE: Diesel Fuel Properties and Engine
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 SPONSOR: Society of Automotive Engineers
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 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096

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 Hinton, H.G.; Forrest, L.; Duclos, D.P.; Davey,
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 Aerospace Corp., Environment and Energy
 Conservation Division
 ADDRESS: El Segundo, CA 90245
 TITLE: Survey of Driver Aid Devices for Improved
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Report No. PB-264162, DOT-TSC-OST-76-45, 164 p.
 1976, November
 SPONSOR: U.S. Dept. of Transportation, Office of
 the Secretary, Office of the Assistant
 Secretary for Systems Development and
 Technology, Office of Systems Engineering;
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 KEYWORDS: FUEL ECONOMY; FLOWMETERS;
 ACCELEROMETERS; PYROMETERS; ENERGY
 CONSERVATION; TABLES (DATA); GRAPHS (CHARTS);
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 BEHAVIOR; EQUIPMENT; VELOCITY; ACCELERATION
 AVAILABILITY: NTIS

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 ADDRESS: Columbia, MD 21045
 TITLE: Evaluation Methodology for Near Term
 Devices and Strategies to Reduce Highway
 Vehicle Use. Volume I: Technical Report.
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 SPONSOR: Energy Research and Development
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 KEYWORDS: HIGHWAY TRANSPORTATION; ENERGY

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 FEASIBILITY; RETROFITTING; COMPARATIVE
 EVALUATIONS; TRUCKS; AUTOMOBILES; MARKET;
 PASSENGER TRANSPORTATION; CARGO
 TRANSPORTATION; BUSES (VEHICLES); MODELS;
 MOBILITY; ENVIRONMENTAL IMPACT; ECONOMICS;
 GRAPHS (CHARTS); EQUIPMENT; GOVERNMENT
 POLICIES; RETROFIT DEVICES

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Hoch, I.

Resources for the Future Inc.

ADDRESS: 1755 Massachusetts Avenue NW,
 Washington, DC 20036

TITLE: Energy Use in the United States by State
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1978, April

KEYWORDS: STATE ANALYSIS; PRICES; ENERGY
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 PETROLEUM PRODUCTS; NATURAL GAS; ELECTRIC
 POWER; COAL; HYDROELECTRIC POWER; NUCLEAR
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 SECTOR; COMMERCIAL SECTOR; GOVERNMENT
 POLICIES; GASOLINE; FUEL OIL

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Hoey, W.F.; Levinson, H.S.

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ADDRESS: Los Angeles, CA

TITLE: Attitude Surveys, Transit Planning, and
 Automobile-Use Constraints

Paper published in Transportation Research Record
 625, 1-4

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SPONSOR: National Academy of Sciences,
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 DRIVERS; MASS TRANSPORTATION; TRAVEL TIME;
 BUSES (VEHICLES); QUESTIONNAIRES; VEHICLE
 PARKING; COSTS

AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
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Hofbauer, P.; Wiedemann, B.

Volkswagenwerk AG

ADDRESS: Germany

TITLE: Advanced Automotive Power Systems. Part
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AVAILABILITY: Society of Automotive Engineers,
 400 Commonwealth Drive, Warrendale, PA 15096

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Holmes, E.H.

International Road Federation

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 Transportation Research Board

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 Constitution Ave. NW, Washington, DC 20418
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Hopkins, J.B.

U.S. Dept. of Transportation, Transportation
Systems Center

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: Railroads and the Environment: Estimation
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 Volume I: Analytical Model

Report No. PB-244150, FRA-OR6D-75-74.I

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SPONSOR: U.S. Dept. of Transportation, Federal
 Railroad Administration, Office of Research
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KEYWORDS: FUEL CONSUMPTION; RAIL TRANSPORTATION;
 MODELS; FORECASTING; LOAD FACTOR; WEIGHT;
 HIGHWAY TRANSPORTATION; CARGO TRANSPORTATION;
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 INTERCITY TRANSPORTATION; VELOCITY

AVAILABILITY: NTIS

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Hopkins, J.B.; Newell, A.T.

U.S. Dept. of Transportation, Transportation
Systems Center

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: Railroads and the Environment: Estimation
 of Fuel Consumption in Rail Transportation.
 Volume II - Freight Service Measurements

Report No. PB-273277, FRA-OR6D-75-74.II,

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 Railroad Administration, Office of Research
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 VELOCITY; WEIGHT; TABLES (DATA)

AVAILABILITY: NTIS

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Horowitz, A.D.

General Motors Corp., Research Laboratories,
Transportation and Urban Analysis Dept.

ADDRESS: Warren, MI 48090

TITLE: An Attitudinal Model of Carpooling Behavior

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 General Motors Corp., Research Laboratories,
 Transportation and Urban Analysis Dept.;
 Illinois, University of, Dept. of Business
 Administration
 ADDRESS: GMC, Warren, MI 48090; UI, Urbana, IL
 61801
 TITLE: Ridesharing to Work: A Psychosocial
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KEYWORDS: COMMUTING; CARPOOLING; MATHEMATICAL
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 ADDRESS: Washington, DC
 TITLE: An Aggregate Supply Model for Urban Bus
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 626, 12-15

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SPONSOR: National Academy of Sciences,
 Transportation Research Board
 KEYWORDS: BUSES (VEHICLES); URBAN TRANSPORTATION;
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 LOS ANGELES
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$2.20 for Transportation Research Record 626

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 House, P.W.; Jones, D.W.; Bernier, J.;
 Bevilacqua, O.M.; Bruck, H.W.; Burakrant,
 W.E.; Chan, V.K.; Howland, M.I.; Seminoff,
 S.A.; Zahradnik, A.R.
 California, University of, Institute of
 Transportation Studies
 ADDRESS: Berkeley, CA
 TITLE: Getting It Off the Shelf: A Methodology
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KEYWORDS: GOVERNMENT POLICIES; RESEARCH; FUNDING;
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 COMMERCIALIZATION; INSTITUTIONAL FACTORS;
 COMMERCIAL SECTOR
 AVAILABILITY: Westview Press, Boulder, CO

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 California, University of, Institute of
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 ADDRESS: Berkeley, CA
 TITLE: Making Federal R and D Useful: A Case
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Special Report, Report No. UCB-ITS-SR-77-4, 50 p.
 1977, March

SPONSOR: Energy Research and Development
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 KEYWORDS: GOVERNMENT POLICIES; RESEARCH;
 DEVELOPMENT; INSTITUTIONAL FACTORS; FUNDING;
 TECHNOLOGY ASSESSMENT; MARKET

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 Howard, E.B.; Barber, B.Y.; Jordan, A.C.;
 Seaborn, C.C.
 Oak Ridge National Laboratory, Information
 Division, Information Center Complex, Energy
 Information Center
 ADDRESS: Oak Ridge, TN 37830
 TITLE: Transportation Energy Conservation Data
 Book: A Selected, Annotated Bibliography.
 Edition 2

Report No. ORNL/EIS-114 (Part II of ORNL-5320),
 272 p.

1977, October

SPONSOR: Energy Research and Development
 Administration, Division of Transportation
 Energy Conservation
 KEYWORDS: BIBLIOGRAPHIES; TRANSPORTATION; ENERGY
 CONSERVATION; AIR TRANSPORTATION; ALTERNATE
 FUELS; AUTOMOBILES; BUSES (VEHICLES); CARGO
 TRANSPORTATION; PETROLEUM; DEMAND
 (ECONOMICS); DIESEL ENGINES; ECONOMICS;
 EFFICIENCY; ELECTRIC VEHICLES; ENERGY
 CONSUMPTION; ENVIRONMENTAL IMPACT;
 FORECASTING; FUEL CONSUMPTION; FUEL ECONOMY;
 FUELS; GASOLINE; GOVERNMENT POLICIES;
 LEGISLATION; MASS TRANSPORTATION; RAIL
 TRANSPORTATION; STATISTICS; TRUCKS; URBAN
 TRANSPORTATION; HIGHWAY TRANSPORTATION;
 VEHICLES; WATER TRANSPORTATION; ABSTRACTS
 AVAILABILITY: NTIS

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 Huddleston, R.L.; Kelly, J.J.; Knight, C.E.
 Oak Ridge Y-12 Plant
 ADDRESS: P.O. Box Y, Oak Ridge, TN 37830
 TITLE: Composite Flywheel Development (January 1
 - March 31, 1977)

Report No. Y-2087, 24 p.

1977, September 19

SPONSOR: Energy Research and Development
 Administration, Office of Conservation,
 Division of Energy Storage Systems, Advanced
 Physical Methods Branch
 KEYWORDS: FLYWHEELS; RESEARCH; TECHNOLOGY;
 DESIGN; GRAPHS (CHARTS); TABLES (DATA);
 MATERIALS; STRESS ANALYSIS; HYBRID
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 AVAILABILITY: NTIS

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 ADDRESS: P.O. Box Y, Oak Ridge, TN 37830
 TITLE: Composite Flywheel Development (April 1 -
 June 30, 1977)

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1977, October 18

SPONSOR: Energy Research and Development
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 Division of Energy Storage Systems, Advanced
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 KEYWORDS: FLYWHEELS; RESEARCH; TECHNOLOGY;
 DIAGRAMS; GRAPHS (CHARTS); DESIGN; TESTING;
 STRESS ANALYSIS
 AVAILABILITY: NTIS

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 Hummon, W.P.; Sharp, D.P.; Zemotel, L.N.
 Pittsburgh, University of, Environmental Systems
 Engineering
 ADDRESS: Pittsburgh, PA 15260

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TITLE: Projections of Automobile Use and Ownership Based on Lifestyle Factors: First Pass Analyses and Scenarios

Report No. ONNL-Sub-7356-1, 59 p.

1977, July

KEYWORDS: FORECASTING; AUTOMOBILES; OWNERSHIP; LIFE STYLE; POPULATION (STATISTICS); AGE GROUPS; TABLES (DATA); VEHICLE TRIPS; VEHICLE MILES TRAVELED; MODELS

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Hunton, W.P.; Sharp, D.P.; Zemotel, L.H. Pittsburgh, University of, Environmental Systems Engineering

ADDRESS: Pittsburgh, PA 15260

TITLE: Projections of Automobile Use and Ownership Based on Lifestyle Factors: Scenario Analysis

Report No. ONNL-Sub-7356-1, 59 p.

1977, July

KEYWORDS: AUTOMOBILES; OWNERSHIP; MODELS; FORECASTING; VEHICLE TRIPS; VEHICLE MILES TRAVELED; TABLES (DATA); AGE GROUPS; REGIONAL ANALYSIS; GRAPHS (CHARTS); LIFE STYLE

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Iberall, A.S.; Cardon, S.Z. General Technical Services Inc. ADDRESS: 8794 West Chester Pike, Upper Darby, PA 19082

TITLE: Physical Foundations for Socio-Economic Modeling for Transportation Planning. Part I: Interaction Between Urban Centers as a Potential Process

Report No. DOT-TSC-OST-77-37,I, 50 p.

1977, September

SPONSOR: U.S. Dept. of Transportation, Transportation Systems Center, Office of Systems Research and Analysis
KEYWORDS: PHYSICS; STATISTICAL ANALYSIS; MATHEMATICS; POPULATION (STATISTICS); URBAN AREAS; TRANSPORTATION; BOLTZMANN STATISTICS; SYSTEMS ANALYSIS; MODELS; PLANNING
AVAILABILITY: NTIS

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TITLE: Systems Models for Transportation Problems. Part II: The Social Physics for Modern Societies - The Role of the Cities

Report No. DOT-TSC-OST-77-37,II, 170 p.

1977, September

SPONSOR: U.S. Dept. of Transportation, Transportation Systems Center, Office of Systems Research and Analysis
KEYWORDS: POPULATION (STATISTICS); SYSTEMS ANALYSIS; POPULATION DYNAMICS; SOCIO-ECONOMIC FACTORS; URBAN AREAS; HISTORY; TRANSPORTATION; MODELS
AVAILABILITY: NTIS

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Inai, K. Toyota Motor Co. Ltd. ADDRESS: Toyota, Japan
TITLE: Development of Electric Vehicles at Toyota

Paper presented at the Fourth International Electric Vehicle Symposium, held in Dusseldorf, Germany, August 31 - September 2, 1976, 17 p.

1976, September

KEYWORDS: DEVELOPMENT; ELECTRIC VEHICLES; TABLES (DATA); GRAPHS (CHARTS); ENERGY CONSUMPTION; LEAD-ACID BATTERIES; AUTOMOBILES; TRUCKS; COMPARATIVE EVALUATIONS; ENERGY CONSERVATION; PERFORMANCE
AVAILABILITY: Electric Vehicle Council, 90 Park Ave., New York, NY 10016 \$1.50

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International Road Federation
ADDRESS: 1023 Washington Building, Washington, DC
TITLE: World Road Statistics: 1970-1974. Edition 1975

Annual publication

1975

KEYWORDS: STATISTICS; ROADS; TABLES (DATA); PRODUCTION; EXPORTS; VEHICLES; INTERNATIONAL TRADE; VEHICLE REGISTRATIONS; IMPORTS; TRAFFIC; AUTOMOTIVE FUELS

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Interstate Commerce Commission
ADDRESS: Washington, DC
TITLE: 91st Annual Report of the Interstate Commerce Commission, Fiscal Year Ending September 30, 1977

Annual Report, 151 p.

1978

KEYWORDS: TRANSPORTATION; REGULATIONS; CONSUMERS; PROTECTION; RAIL TRANSPORTATION; CARGO TRANSPORTATION; PIPELINE TRANSPORTATION; TARIFFS; WATER TRANSPORTATION; LEGISLATION; FINANCIAL DATA; FINANCIAL MANAGEMENT
AVAILABILITY: GPO, Stock No. 026-000-01096-9

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Interstate Commerce Commission, Bureau of Accounts
ADDRESS: Washington, DC 20423
TITLE: Freight Commodity Statistics: Motor Carriers of Property, Year Ended December 31, 1974

97 p.

KEYWORDS: COMMODITIES; REGIONAL ANALYSIS; TABLES (DATA); CARGO TRANSPORTATION; REVENUE; TONNAGE; TRUCKS; STATISTICS; WEIGHT
AVAILABILITY: GPO \$1.75, Stock No. 026-000-01054-3, Catalog No. IC 1-NOT22:974

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Interstate Commerce Commission, Bureau of Accounts
ADDRESS: Washington, DC
TITLE: Transport Statistics in the United States for the Year Ended December 31, 1975. Part 5: Carriers by Water

Annual report, 59 p.

KEYWORDS: TABLES (DATA); WATERWAY TRANSPORTATION; REVENUE; WATER TRANSPORTATION; CARGO TRANSPORTATION; PASSENGER TRANSPORTATION; FINANCIAL DATA; REGIONAL ANALYSIS; OPERATING COSTS; MARINE TRANSPORTATION; COMMODITIES; TONNAGE

AVAILABILITY: GPO, Stock No. 026-000-0069-1

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Interstate Commerce Commission, Bureau of Accounts
 ADDRESS: Washington, DC
 TITLE: Transport Statistics in the United States
 for the Year Ended December 31, 1975. Part
 1: Railroads, Their Lessors and Proprietary
 Companies, and Electric Railways

Annual report, 186 p.

KEYWORDS: RAIL TRANSPORTATION; RAILROADS;
 FINANCIAL DATA; REGIONAL ANALYSIS; INCOME;
 OPERATING COSTS; CARGO TRANSPORTATION;
 EQUIPMENT; TABLES (DATA); BALANCE SHEETS;
 REVENUE; EXPENSES; STATISTICS; PASSENGER
 TRANSPORTATION

AVAILABILITY: GPO, Stock No. 026-000-01067-5; See
 F-6094 for 1974 Statistics

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Interstate Commerce Commission, Bureau of Accounts
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 TITLE: Transport Statistics in the United States
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 3: Freight Forwarders

11 p.

KEYWORDS: CARGO TRANSPORTATION; FINANCIAL DATA;
 REVENUE; STATISTICS; OWNERSHIP; TABLES (DATA)
 AVAILABILITY: GPO \$0.40, Stock No.
 026-000-01057-8

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Interstate Commerce Commission, Bureau of Accounts
 ADDRESS: Washington, DC
 TITLE: Transport Statistics in the United States
 for the Year Ended December 31, 1975. Part
 4: Private Car Lines

6 p.

KEYWORDS: STATISTICS; OWNERSHIP; RAIL
 TRANSPORTATION; RAILROAD CARS; REFRIGERATION;
 FINANCIAL DATA; OPERATION; REVENUE; TABLES
 (DATA)

AVAILABILITY: GPO \$0.55, Stock No.
 026-000-01052-7

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Interstate Commerce Commission, Bureau of Accounts
 ADDRESS: Washington, DC
 TITLE: Transport Statistics in the United States
 for the Year Ended December 31, 1975. Part
 2: Motor Carriers

24 p.

KEYWORDS: CARGO TRANSPORTATION; STATISTICS;
 REVENUE; REGIONAL ANALYSIS; INTERCITY
 TRANSPORTATION; FINANCIAL DATA; OPERATION;
 TABLES (DATA); INCOME; EQUIPMENT;
 TRANSPORTATION

AVAILABILITY: GPO

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Interstate Commerce Commission, Bureau of Accounts
 ADDRESS: Washington, DC 20423
 TITLE: Class I Railroads: Financial and
 Operating Statistics for the Twelve Months
 Ended December 31, 1975

Semi-Annual publication, Statement No. 100, 19 p.
 1977

KEYWORDS: RAILROADS; FINANCIAL DATA; STATISTICS;
 TAXES; REVENUE; OPERATING COSTS; RAIL
 TRANSPORTATION; INCOME; PASSENGER
 TRANSPORTATION; EQUIPMENT; CARGO

TRANSPORTATION; REGIONAL TRANSPORTATION

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Irick, P.E.; Pascal, E.P.
 National Academy of Sciences, National Research
 Council, Transportation Research Board,
 TRISNET Secretariat
 ADDRESS: 2101 Constitution Ave., Washington, DC
 20590

TITLE: TRISNET: Directory to Transportation
 Research Information Resources

Report No. PB-255172, DOT-TST-76-82, 68 p.
 1976, May

SPONSOR: U.S. Dept. of Transportation, Office of
 the Secretary, Office of the Assistant
 Secretary for Systems Development and
 Technology, Transportation Research Activity
 Information Service

KEYWORDS: DIRECTORIES; TRANSPORTATION; RAIL
 TRANSPORTATION; HIGHWAY TRANSPORTATION; URBAN
 TRANSPORTATION; DATA BASES; PUBLIC
 TRANSPORTATION; ENVIRONMENTAL QUALITY;
 INFORMATION; INFORMATION SYSTEMS

AVAILABILITY: NTIS

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Irving-Cloud Publishing Co.
 ADDRESS: 7300 N. Cicero Ave., Lincolnwood, IL
 60466

TITLE: An Analysis of Marketing Trends in the
 Automotive Service Industry Through 1975

v.p.

1975, December

KEYWORDS: MARKETING; AUTOMOTIVE INDUSTRY;
 SERVICES; TABLES (DATA); STATISTICS;
 GASOLINE; MAINTENANCE; SALES; EMPLOYMENT;
 FINANCIAL DATA; REPAIR; AUTOMOBILES

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Janicki, E.
 TITLE: The Diesels Are Coming

California Highway Patrolman, 41(11), 18, 58
 1978, January

KEYWORDS: DIESEL ENGINES; AUTOMOBILES; FUEL
 ECONOMY; COMPARATIVE EVALUATIONS; DIAGRAMS;
 IGNITION SYSTEMS; COMPRESSION; FUEL INJECTION
 SYSTEMS; PRECHAMBER ENGINES; PUBLIC OPINION

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Jelavich, H.S.
 Faucett (Jack) Associates Inc.
 ADDRESS: 5454 Wisconsin Avenue, Suite 1150, Chevy
 Chase, MD 20015

TITLE: A Study of the Determinants of Freight
 Modal Choice

Conference paper presented at Transportation
 Research Board Meeting Session Number 143,
 January 19, 1978, 21 p.

1978

SPONSOR: U.S. Dept. of Energy, Division of
 Transportation Energy Conservation

KEYWORDS: CARGO TRANSPORTATION; DECISIONS;
 WEIGHT; INPUT-OUTPUT ANALYSIS; COMMODITIES;
 FORECASTING; MODELS; RATES (COSTS); DISTANCE;
 DETERMINANTS

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Juneja, R.N.; Nelly, W.J.; Valentine, R.W.
General Motors Proving Ground
TITLE: Computer Simulations of Emissions and Fuel Economy

Paper No. 780287, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - March 3, 1978, 20 p.

1978

KEYWORDS: AUTOMOTIVE EMISSIONS; FUEL ECONOMY; COMPUTERIZED SIMULATION; VELOCITY; STANDARDS; AUTOMOBILES; DESIGN; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

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Kalish, Wittlinger and Associates Inc.
TITLE: The Potential Market for On-the-Road Electric Vehicles

22 p.

1971, May

SPONSOR: Electric Vehicle Council; Copper Development Association Inc.
KEYWORDS: MARKET; ELECTRIC VEHICLES; PERFORMANCE; QUESTIONNAIRES; TRUCKS; AUTOMOBILES; BUSES (VEHICLES); INTERNAL COMBUSTION ENGINES; COMPARATIVE EVALUATIONS; TABLES (DATA)
AVAILABILITY: Electric Vehicle Council, 90 Park Avenue, New York, NY 10016

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Kaplan, J.A.
U.S. Dept. of Transportation, Federal Highway Administration
ADDRESS: 400 7th St. SW, Washington, DC 20590
TITLE: Characteristics of the Regular Adult Bicycle User

Report No. PB-258399, FHWA-R9-76-7, 136 p.
1975, July

KEYWORDS: BICYCLES; ACCIDENTS; SURVEYS; DEMOGRAPHIC SURVEYS; VEHICLE TRIPS; AGE GROUPS; SEX
AVAILABILITY: NTIS

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Hitachi Ltd., Sawa Works; Hitachi Ltd., Hitachi Laboratory

ADDRESS: Japan

TITLE: The Efficiency Improvement of Electric Vehicles by Regenerative Braking

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KEYWORDS: ELECTRIC VEHICLES; REGENERATIVE BRAKING; DESIGN; EFFICIENCY; ELECTRIC VEHICLE RANGE; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

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Kearney (A.T.) Inc.
ADDRESS: 100 S. Wacker Drive, Chicago, IL 60606
TITLE: Energy Efficiency Improvement Targets in

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Report No. PB-270068, FEA/D-77/259, v.p.
1976, July 12

SPONSOR: Federal Energy Administration, Office of Industrial Reporting Programs

KEYWORDS: EFFICIENCY; TRANSPORTATION; EQUIPMENT; ENERGY CONSUMPTION; ENERGY CONSERVATION; INDUSTRIAL SECTOR; GOVERNMENT POLICIES; ECONOMICS; TABLES (DATA); FORECASTING; REGIONAL ANALYSIS; STATISTICS; OPERATING COSTS; VEHICLES; AIRCRAFT; BOATS; SHIPS; RAIL TRANSPORTATION; MOTORCYCLES; BICYCLES; RECREATION VEHICLES

AVAILABILITY: NTIS

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Kearney (A.T.) Inc.
ADDRESS: 100 South Wacker Drive, Chicago, IL 60606

TITLE: Urban Goods Movement Demonstration Project Design Phases I and II. Executive Summary

Report No. PB-254854, UTA-IL-06-0030-76-1, 60 p.
1976, May

SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration

KEYWORDS: CARGO TRANSPORTATION; AIR POLLUTION; FOISE POLLUTION; ENERGY CONSUMPTION; COSTS; TABLES (DATA); TRANSPORTATION; COMPARATIVE EVALUATIONS; FUEL CONSUMPTION; TRUCKS; TRAFFIC; LAND USE; PASSENGER TRANSPORTATION; URBAN TRANSPORTATION; COMMODITIES

AVAILABILITY: NTIS

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Keck, C.A.; Erlbaum, N.S.; Hilic, P.L.; Trentacoste, M.F.
New York State Dept. of Transportation, Planning Division

ADDRESS: Albany, NY 12232

TITLE: Changes in Individual Travel Behavior During the Energy Crisis, 1973-74

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SPONSOR: U.S. Dept. of Transportation
KEYWORDS: ENERGY CONSERVATION; TRAVEL; BEHAVIOR; GASOLINE; CARPOOLING; NEW YORK; URBAN TRANSPORTATION; SHORTAGES; VEHICLE REGISTRATIONS; ATTITUDES; AUTOMOBILE DRIVERS; SURVEYS; QUESTIONNAIRES; RESIDENTIAL SECTOR; TABLES (DATA); FUEL ECONOMY; FUEL CONSUMPTION; PURCHASING; DEMAND (ECONOMICS)

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Keller, J.L.; Wakaguchi, G.M.; Ware, J.C.
Union Oil Co. of California, Research Dept.

ADDRESS: Brea, CA

TITLE: Methanol Fuel Modification for Highway Vehicle Use. Final Report

Report No. HCP/W3683-18, v.p.
1978, July

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation

KEYWORDS: METHANOL; ALTERNATE FUELS; ALCOHOL FUELS; ENGINES; MODIFICATIONS; GASOLINE; PROPERTIES; VEHICLES; UTILIZATION; PERFORMANCE; ENVIRONMENTAL IMPACT; TRANSPORTATION; WATER; TESTING; TABLES (DATA); TOXICITY; SAFETY

AVAILABILITY: NTIS

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Went, P.; Bishop, H.
U.S. Dept. of Transportation, Federal Highway
Administration, Office of Highway Planning,
Planning Services Branch
ADDRESS: Washington, DC 20590
TITLE: National Truck Characteristic Report: 1974

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1976, April

KEYWORDS: TRUCKS; TABLES (DATA); WEIGHT; REGIONAL
ANALYSIS; ROADS; GRAPHS (CHARTS); RURAL
AREAS; URBAN AREAS; CARGO TRANSPORTATION;
URBAN TRANSPORTATION

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Weyani, B.I.; Putnam, E.S.
Interplan Corp.
ADDRESS: 100 North Hope Ave., Santa Barbara, CA
93110
TITLE: Transportation System Management: State
of the Art

INTERPLAP Report No. 7504R, 210 p.

1977, February

SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration, Office of
Policy and Program Development

KEYWORDS: TRANSPORTATION SYSTEMS; URBAN
TRANSPORTATION; ENERGY CONSERVATION; TRAFFIC;
PEDESTRIANS; BICYCLES; AIR QUALITY; CAPITAL
COSTS; AUTOMOTIVE FLEETS; PERFORMANCE; TABLES
(DATA); REGIONAL ANALYSIS; PASSENGER
TRANSPORTATION; CARPOOLING; BUSES (VEHICLES);
VANPOOLS; BIKEWAYS; PUBLIC TRANSPORTATION;
DIAL-A-RIDE; VEHICLE PARKING; BIBLIOGRAPHIES;
PARATRANSIT; MANAGEMENT

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Kidman, R.W.; Barrett, R.J.; Koenig, D.R.
Los Alamos Scientific Laboratory
ADDRESS: Los Alamos, NM 87545
TITLE: Energy Flow Patterns for 1975

Report No. LA-6770, 72 p.

1977, June

SPONSOR: Energy Research and Development
Administration; Federal Energy Administration
KEYWORDS: SYSTEMS ANALYSIS; ENERGY FLOW; ENERGY
CONSUMPTION; INDUSTRIAL SECTOR; COMMERCIAL
SECTOR; RESIDENTIAL SECTOR; GRAPHS (CHARTS);
PETROLEUM; COAL; HYDROELECTRIC POWER; NUCLEAR
ENERGY; NATURAL GAS; PRODUCTION; ELECTRIC
POWER GENERATION; TRANSPORTATION; REGIONAL
ANALYSIS; DIAGRAMS

AVAILABILITY: NTIS

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King, J.A.
Mathematica Policy Research Inc.
ADDRESS: 2101 L Street NW, Suite 416, Washington,
DC 20461
TITLE: "The Distributional Impact of Energy
Policies: Development and Application of the
Phase I Comprehensive Human Resources Data
System. Task 8, Final Report

Report No. NRP/PR 77-13, v.p.

1977, June 30

SPONSOR: Federal Energy Administration, Office of
Data Services

KEYWORDS: ENERGY POLICY; TABLES (DATA); GASOLINE;
PRICES; THERMAL INSULATION; SOCIO-ECONOMIC
FACTORS; ECONOMIC IMPACT; RESIDENTIAL SECTOR;
ENERGY MODELS; FORECASTING

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King, J.A.; LeMat, M.P.
Mathematica Policy Research Inc.; Hendrickson
Corp.

ADDRESS: MPRI, 2101 L Street NW, Suite 416,
Washington, DC 20037; HC, 2101 L Street NW,
Suite 414, Washington, DC 20037

TITLE: System Flow Chart. Phase I:
Comprehensive Human Resources Data System

22 p.

1977, June 30

SPONSOR: Federal Energy Administration, Office of
Data Services

KEYWORDS: SYSTEMS ANALYSIS; FLOW CHARTS;
FORECASTING; INFORMATION SYSTEMS; DATA
PROCESSING; ENERGY POLICY

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Kingham, R.I.
National Academy of Sciences, National Research
Council, Transportation Research Board,
National Cooperative Highway Research Program
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418

TITLE: Suburban Highways and Roads as Instruments
of Land Use Change

Paper presented at the 54th Annual Meeting of the
Transportation Research Board, published in
Transportation Research Record 565, 53-60

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KEYWORDS: LAND USE; HIGHWAYS; SUBURBAN AREAS;
CAPACITY; LEGISLATION; LAND DEVELOPMENT;
UTILIZATION; TRAFFIC CONTROL; GROWTH
AVAILABILITY: \$6.00 for Transportation Research
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Kirk, R.S.; Barber, K.F.
Mueller Associates Inc.
TITLE: A Pictorial Characterization of Worldwide
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Report No. CONS-770373, presented during the
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1977, August 16

SPONSOR: Energy Research and Development
Administration, Division of Transportation
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KEYWORDS: PHOTOGRAPHS; ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; GERMAN FEDERAL
REPUBLIC; ISRAEL; NETHERLANDS; SWEDEN; UNITED
KINGDOM; FRANCE; ITALY; JAPAN; USA;
MANUFACTURERS; MARKET; RESEARCH; DESIGN;
INTERNATIONAL ANALYSIS
AVAILABILITY: GPO, Stock No. 060-000-00083-2

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Klann, J.L.; Tew, R.C., Jr.
National Aeronautics and Space Administration,
Langley Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Analysis of Regenerated Single-Shaft
Ceramic Gas-Turbine Engines and Resulting
Fuel Economy in a Compact Car

Report No. N77-29607, NASA-TN-X-3531, 23 p.
1977, August

KEYWORDS: GAS TURBINE ENGINES; FUEL ECONOMY;
CERAMIC ENGINES; HIGH TEMPERATURE; AUTOMOTIVE
ENGINES; DESIGN; COMPUTER PROGRAMS;
COMPARATIVE EVALUATIONS; GRAPHS (CHARTS);
AUTOMOBILES

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 AVAILABILITY: NTIS

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 Kloster, L. (ed.)
 Air Transport Association of America
 ADDRESS: 1709 New York Avenue NW, Washington, DC
 20006
 TITLE: Air Transport 1978

Annual report, 35 p.
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KEYWORDS: AIR TRANSPORTATION; TRAFFIC; FINANCIAL
 DATA; ECONOMIC ANALYSIS; SAFETY; AIRPORTS;
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 OPERATING COSTS; INCOME; PASSENGER
 TRANSPORTATION; CARGO TRANSPORTATION;
 INTERNATIONAL RELATIONS; ENERGY CONSUMPTION

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 Knight, L.W.; Stover, R.E.
 General Motors Corp., Design Staff
 TITLE: The Free Access Concept--A New Challenge
 to Human Factors

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 16 p.

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SPONSOR: Society of Automotive Engineers
 KEYWORDS: PEDESTRIANS; TRANSPORTATION SYSTEMS;
 SURVEYS; HIGHWAY; ELECTRIC VEHICLES; PUBLIC
 OPINION; URBAN AREAS; SHOPPING CENTERS
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096

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 TITLE: Market Objectives for Electric Vehicles

Electrical Review 200(20), 23-25
 1977, May 20

KEYWORDS: MARKET; ELECTRIC VEHICLES;
 COMMERCIALIZATION; PHOTOGRAPHS; DESIGN;
 SAFETY; LEAD-ACID BATTERIES; NICKEL-ZINC
 BATTERIES; NICKEL-ZINC BATTERIES; ZINC-CHLORINE
 BATTERIES; INDUSTRIES; RESEARCH; DEVELOPMENT;
 LITHIUM-TITANIUM BATTERIES; BICYCLES

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 Northwestern University, Transportation Center
 ADDRESS: Evanston, IL
 TITLE: Baseline Energy Consumption Forecasts for
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SPONSOR: Argonne National Laboratory, Energy and
 Environmental Systems Division; Energy
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 KEYWORDS: FORECASTING; ENERGY CONSUMPTION; ENERGY
 CONSERVATION; TRANSPORTATION; PRICES;
 AUTOMOBILES; BUSES (VEHICLES); INTERCITY
 TRANSPORTATION; PASSENGER TRANSPORTATION;
 CARGO TRANSPORTATION; AIR TRANSPORTATION;
 RAIL TRANSPORTATION; GRAPHS (CHARTS)
 AVAILABILITY: NTIS

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 Edwards and Kelcey Inc.; New Jersey Institute of
 Technology
 ADDRESS: EK, Newark, NJ; NJIT, Newark, NJ
 TITLE: Bus Passenger Service-Time Distributions

Paper published in Transportation Research Record
 625, 37-43

1977

SPONSOR: National Academy of Sciences,
 Transportation Research Board
 KEYWORDS: BUSES (VEHICLES); PASSENGER
 TRANSPORTATION; PLANNING; DESIGN; MODELS;
 TABLES (DATA); TRAVEL TIME; DELAYS
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$3.20 for Transportation Research Record 625

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 Kraus, E.F.
 McDonnell Douglas Corp., Douglas Aircraft Co.
 ADDRESS: Long Beach, CA 90846
 TITLE: Cost/Benefit Tradeoffs for Reducing the
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Report No. #77-23072, NASA CR-137923, NDC J7340,
 289 p.
 1976, June

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 Administration, Ames Research Center
 KEYWORDS: AIR TRANSPORTATION; ENERGY CONSUMPTION;
 BENEFIT COST ANALYSIS; TABLES (DATA); GRAPHS
 (CHARTS); ENERGY CONSERVATION; FUEL
 CONSUMPTION; PASSENGER TRANSPORTATION;
 EFFICIENCY; COMPARATIVE EVALUATIONS; COSTS;
 DESIGN; AIRCRAFT; TURBOPROPS
 AVAILABILITY: NTIS

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 U.S. Dept. of Commerce, Domestic and
 International Business Administration, Office
 of Economic Research
 ADDRESS: Room 2039, Washington, DC 20230
 TITLE: The Automobile Industry in 1976: An
 International Survey

Report No. PB-272284, OER/ER-23, 79 p.
 1977, August

KEYWORDS: AUTOMOTIVE INDUSTRY; SURVEYS; CANADA;
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 GRAPHS (CHARTS); TABLES (DATA); VEHICLE
 REGISTRATIONS; AUTOMOBILES; IMPORTS; EXPORTS;
 GERMAN FEDERAL REPUBLIC; INTERNATIONAL TRADE
 AVAILABILITY: NTIS

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 Kulash, D.J.; Hudge, R.R.; Prywes, D.
 U.S. Congress, Congressional Budget Office,
 Natural Resources and Commerce Division
 ADDRESS: Washington, DC
 TITLE: Urban Transportation and Energy: The
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 100 p.

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 SPONSOR: U.S. Senate, Committee on Environment
 and Public Works, Subcommittee on
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 KEYWORDS: URBAN TRANSPORTATION; ENERGY
 CONSERVATION; GOVERNMENT POLICIES; MASS
 TRANSPORTATION; ENERGY CONSUMPTION; ENERGY

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INTENSITY; AUTOMOBILES; CARPOOLING; VANPOOLS;
DIAL-A-RIDE; RAIL TRANSPORTATION; BUSES
(VEHICLES)

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LaBelle, S.J. (ed.)
Argonne National Laboratory, Energy and
Environmental Systems Division
ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439
TITLE: Transportation Energy Conservation: Tools
to Meet the National Objective

Report No. ANL-76-XX-4, CONF-760226, summary of
meeting held at Argonne National Laboratory,
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SPONSOR: Energy Research and Development
Administration

KEYWORDS: ENERGY CONSERVATION; URBAN
TRANSPORTATION; GOVERNMENT POLICIES; ENERGY
POLICY; ENERGY CONSUMPTION; LAND USE;
TRANSPORTATION

AVAILABILITY: NTIS

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Landgrebe, A.A.; Nelson, P.A.
Argonne National Laboratory, Chemical Engineering
Division; Energy Research and Development
Administration, Division of Conservation
Research and Technology
ADDRESS: ANL, 9700 South Cass Avenue, Argonne, IL
60439; ERDA, Washington, DC 20545
TITLE: Battery Research Sponsored by the U.S.
Energy Research and Development Administration

Report No. CONF-760112-1, paper prepared for A
Symposium on United States Lithium Resources
and Requirements by the Year 2000, Lakewood,
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1976

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Administration, Assistant Administrator for
Conservation

KEYWORDS: US ERDA; ENERGY STORAGE; BATTERIES;
ELECTRIC VEHICLES; LITHIUM-ALUMINUM/SULFON
SULFIDE BATTERIES; RESEARCH PROGRAMS;
ELECTRIC UTILITIES; LOAD MANAGEMENT; LITHIUM;
AVAILABILITY

AVAILABILITY: NTIS

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Landman, A.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Methanol as an Automotive Fuel with
Special Emphasis on Methanol-Gasoline Blends

Report No. DOT-TSC-OST-77-31, v.p.
1977, April

SPONSOR: U.S. Dept. of Transportation, Office of
the Assistant Secretary for Systems
Development and Technology, Office of Systems
Engineering

KEYWORDS: METHANOL; AUTOMOTIVE FUELS; GASOLINE;
MIXING; PRODUCTION; COSTS; ALTERNATE FUELS;
RESEARCH

AVAILABILITY: NTIS

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Lang, S.L. (ed.)
National Academy of Sciences, National Research

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Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington,
DC 20418
TITLE: Rail Transit

Transportation Research Record 627, 31 p.
1977

KEYWORDS: RAIL TRANSPORTATION; RAPID TRANSIT
SYSTEMS; LAND USE; TRAFFIC CONTROL; TRANSIT
STATIONS; MODELS; MAINTENANCE

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Avenue NW, Washington, DC 20418
\$2.20

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Lapedes, D.E.; Hinton, H.G.; Meltzer, J.; Iura, T.
Aerospace Corp., Environmental Programs Group
ADDRESS: El Segundo, CA 90245
TITLE: Current Status of Alternative Automotive
Power Systems and Fuels. Volumes 1-4

Report No. EPA-460/3-74-013-a

1974, July

SPONSOR: U.S. Environmental Protection Agency,
Office of Air and Waste Management, Office of
Mobile Source Air Pollution Control,
Alternative Automotive Power Systems Division

KEYWORDS: ALTERNATE FUELS; AUTOMOBILES; ENGINES;
ELECTRIC VEHICLES; RESEARCH; TABLES (DATA);
DIAGRAMS; HISTORY; AUTOMOTIVE FUELS; HYBRID
ELECTRIC-POWERED VEHICLES; GRAPHS (CHARTS);
TRANSPORTATION

AVAILABILITY: NTIS

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Large, D.B.
TITLE: Hidden Waste

An Issue Report, 109 p.

1976

KEYWORDS: ENERGY CONSERVATION; ELECTRIC POWER
GENERATION; ENVIRONMENTAL IMPACT; ENERGY
FLOW; RESIDENTIAL SECTOR; HOUSES; THERMAL
INSULATION; RETROFITTING; TABLES (DATA);
HEATING SYSTEMS; COSTS; SOLAR SPACE HEATING;
AIR CONDITIONING; ENERGY CONSUMPTION;
APPLIANCES; EFFICIENCY; COMMERCIAL BUILDINGS;
RECYCLING; MATERIALS; MANUFACTURING;
PRODUCTION; WASTE MANAGEMENT; BEVERAGES;
TRANSPORTATION; PETROLEUM; CARGO
TRANSPORTATION; PASSENGER TRANSPORTATION;
FOOD INDUSTRY; INDUSTRIAL SECTOR

AVAILABILITY: The Conservation Foundation, 1717
Massachusetts Ave NW, Washington, DC 20036

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Laughlin, O.B.Q.
National Governors' Association, Center for
Policy Research
ADDRESS: 444 North Capitol Street, Washington, DC
20001
TITLE: Energy Conservation: The State of the
States

Energy Conservation Report No. 2, 30 p.
1976, February

SPONSOR: U.S. Dept. of Energy, Office of
Intergovernmental Affairs

KEYWORDS: ENERGY CONSERVATION; STATE ANALYSIS;
GOVERNMENT POLICIES; STATE GOVERNMENT;
LIGHTING SYSTEMS; FORECASTING; BUILDINGS;
STANDARDS; TABLES (DATA); THERMAL EFFICIENCY;
TRANSPORTATION; RESIDENTIAL SECTOR;
INDUSTRIAL SECTOR; PUBLIC BUILDINGS; BUILDING
CODES

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Lee, J.
Brookhaven National Laboratory, Dept. of Applied
Science, Energy Policy Analysis Group
ADDRESS: Upton, NY 11973
TITLE: Energy Supply and Demand in the Northeast
United States - 1972

Report No. BNL-20427, 86 p.

1975, September

SPONSOR: Energy Research and Development
Administration

KEYWORDS: ENERGY SOURCES; ENERGY DEMAND;
NORTHEASTERN STATES; REGIONAL ANALYSIS; NEW
ENGLAND; NEW YORK; PENNSYLVANIA; NEW JERSEY;
DELAWARE; MARYLAND; DISTRICT OF COLUMBIA;
TABLES (DATA); ENERGY CONSUMPTION;
RESIDENTIAL SECTOR; COMMERCIAL SECTOR;
INDUSTRIAL SECTOR; TRANSPORTATION; ELECTRIC
POWER; MODELS; CONVERSION; FORECASTING; FUEL
CONSUMPTION; PLANNING; STATE ANALYSIS
AVAILABILITY: NTIS

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Leesbruggen, L.R.
Elroy Engineering Pty. Ltd.
ADDRESS: Sydney, Australia
TITLE: The Townable Electric City Transit System

Paper presented at the Fourth International
Electric Vehicle Symposium, held in
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1976, 21 p.

1976, September

KEYWORDS: URBAN TRANSPORTATION; BUSES (VEHICLES);
COMMUTING; ELECTRIC VEHICLES; PASSENGER
TRANSPORTATION; PERFORMANCE; DIAGRAMS;
BATTERIES; DESIGN; AUSTRALIA
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Lehmann, E.J.
National Technical Information Service
ADDRESS: 5285 Port Royal Road, Springfield, VA
22161
TITLE: Natural Gas: Marine Transportation (A
Bibliography with Abstracts)

Report No. NTIS/PS-77/0603 (supersedes
NTIS/PS-76/0499 and NTIS/PS-75/464), 82 p.
1977, July

KEYWORDS: BIBLIOGRAPHIES; NATURAL GAS; MARINE
TRANSPORTATION; PETROLEUM; LIQUEFIED NATURAL
GAS; DESIGN; SAFETY; CARGO TRANSPORTATION;
PIPELINES; CRYOGENICS; HAZARDS; PLANNING;
FISHERIES; POLLUTION; ENVIRONMENTAL IMPACT;
TANKER SHIPS; ABSTRACTS
AVAILABILITY: NTIS

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Leising, C.J.; Purohit, G.P.; DeGrey, S.F.;
Pinegold, J.G.
National Aeronautics and Space Administration,
Jet Propulsion Laboratory
ADDRESS: California Institute of Technology,
Pasadena, CA
TITLE: Utilization of Waste Heat in Trucks for
Increased Fuel Economy. Final Report

Report No. NCP/N1011-02, 30 p.

1978, June

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: WASTE HEAT; FUEL ECONOMY; UTILIZATION;
TRUCKS; DIESEL ENGINES; SPARK IGNITION
ENGINES; GAS TURBINE ENGINES; STIRLING
ENGINES; RANKINE CYCLE ENGINES; REGENERATION;

DRIVING CYCLE; ADIABATIC PROCESSES;
RECOVERY; TURBOCHARGING;
TURBOCOMPOUNDING; GRAPHS (CHARTS); TABLES
(DATA); DIAGRAMS
AVAILABILITY: GPO, Stock No. 061-000-00111-5

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Leonard, R.W.; Wagner, R.D.
National Aeronautics and Space Administration,
Langley Research Center
ADDRESS: Langley Station, VA
TITLE: Airframe Technology for Energy Efficient
Transport Aircraft

Paper No. 760929, presented at the Aerospace
Engineering and Manufacturing Meeting, Town
and Country, San Diego, California, November
29-December 2, 1976, 16 p.

1976

SPONSOR: Society of Automotive Engineers
KEYWORDS: TECHNOLOGY; AIRCRAFT; AERODYNAMICS;
FUEL ECONOMY; EFFICIENCY; TESTING; LAMINAR
FLOW; AIRFOILS; COMPOSITE MATERIALS;
DIAGRAMS; GRAPHS (CHARTS); DESIGN; CONTROL
EQUIPMENT; OPERATING COSTS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

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Lerman, S.R.
Massachusetts Institute of Technology, Dept. of
Civil Engineering
ADDRESS: Cambridge, MA 02139
TITLE: Location, Housing, Auto Ownership and Mode
to Work: A Joint Choice Model

Paper presented at the Fifty-Fifth Annual Meeting
of the Transportation Research Board,
Washington, DC, 48 p.

1975, August

KEYWORDS: RESIDENTIAL SECTOR; TRANSPORTATION;
SHOPPING TRIPS; MODELS; URBAN AREAS;
BEHAVIOR; EMPLOYMENT; DECISIONS;
SOCIO-ECONOMIC FACTORS; LAND USE;
AUTOMOBILES; OWNERSHIP; HOUSING; DISTANCE;
GRAPHS (CHARTS); COMMUTING

<372>

Lerman, S.R.
Massachusetts Institute of Technology, Dept. of
Civil Engineering
ADDRESS: Cambridge, MA 02139
TITLE: Application of Choice Theory to
Residential Location and Related Household
Decisions

Paper presented at the annual North American
Meeting of the Regional Science Association,
November 7-9, 1975, v.p.

1975, November

KEYWORDS: RESIDENTIAL SECTOR; URBAN
TRANSPORTATION; MODELS; SHOPPING; URBAN
AREAS; BEHAVIOR; EMPLOYMENT; DECISIONS;
SOCIO-ECONOMIC FACTORS; AUTOMOBILES;
OWNERSHIP; HOUSING; GRAPHS (CHARTS); TABLES
(DATA); DISTANCE; COMMUTING; FORECASTING

<373>

Leshner, M.D.; Baisley, W.N.; Leshner, E.
Fuel Injection Development Corp.
ADDRESS: 110 Harding Avenue, Bellmawr, NJ 08030
TITLE: A Fuel Vapor Injection/Igniter System.
Final Report

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Report No. E-4, 84 p.
1977SPONSOR: Energy Research and Development
AdministrationKEYWORDS: FUEL INJECTION SYSTEMS; FUEL-AIR RATIO;
TESTING; AUTOMOTIVE ENGINES; DESIGN; FUEL
ECONOMY; AUTOMOTIVE EMISSIONS; PERFORMANCE;
INTERNAL COMBUSTION ENGINES; DIAGRAMS

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Levine, C.A.

Dow Chemical Co.

ADDRESS: Walnut Creek, CA

TITLE: Sodium-Sulfur Battery System: Annual
Report, May 19, 1975 - May 19, 1976

Report No. COO-2565-4, 68 p.

1976, November 1

SPONSOR: Energy Research and Development
Administration, Division of Conservation
Research and TechnologyKEYWORDS: SODIUM-SULFUR BATTERIES; LIFE
(DURABILITY); RESEARCH; TECHNOLOGY;
ELECTROLYTES; ELECTRODES; CATHODES; GRAPHS
(CHARTS); COSTS
AVAILABILITY: NTIS

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Levinsohn, D.H.; McQueen, J.T.

U.S. Dept. of Commerce, National Bureau of
Standards

ADDRESS: Washington, DC 20234

TITLE: A Procedure for Estimating Automobile Fuel
Consumption on Congested Urban RoadsReport No. CO4-75-10057, NRSIR 74-595, 20 p.
1974, AugustSPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation AdministrationKEYWORDS: AUTOMOBILES; FUEL CONSUMPTION; URBAN
AREAS; HIGHWAYS; DRIVING CYCLE; VEHICLE MILES
TRAVELED; TRAFFIC; FORECASTING;
CLASSIFICATIONS; WEIGHT; SIZE; AIR
CONDITIONING; TRAFFIC CONTROL; FUEL ECONOMY
AVAILABILITY: NTIS

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Library of Congress, Congressional Research
Service

ADDRESS: Washington, DC 20540

TITLE: National Energy Transportation. Volume
III: Issues and ProblemsCongressional Committee Print, 95th Congress, 2nd
Session, Publication No. 95-15, 560 p.

1978, March

SPONSOR: U.S. Senate, Committee on Energy and
Natural Resources; U.S. Senate, Committee on
Commerce, Science, and TransportationKEYWORDS: WEATHER; HAZARDS; LIQUEFIED NATURAL
GAS; INTERNATIONAL RELATIONS; REGIONAL
ANALYSIS; FUELS; RAIL TRANSPORTATION; ENERGY
SUPPLIES; ENERGY RESOURCES; PIPELINE
TRANSPORTATION; COAL; PETROLEUM; NATURAL GAS;
TRUCKS; CARGO TRANSPORTATION; HIGHWAY
TRANSPORTATION; NUCLEAR FUELS; WATER
TRANSPORTATION; ALASKA; IMPORTS; TANKER
SHIPS; SAFETY; TRANSPORTATION; FUEL
EFFICIENCY; STANDARDS; RATES (COSTS);
REGULATIONS

AVAILABILITY: GPO, Stock No. 052-070-04469-1

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Liff, S.D.

Voorhees (Alan H.) and Associates Inc.

ADDRESS: McLean, VA

TITLE: Travelers' Attitudes and Energy
Conservation

20 p.

KEYWORDS: TRAVEL; ATTITUDES; ENERGY CONSERVATION;
BEHAVIOR; PLANNING; FORECASTING; AUTOMOBILE
DRIVERS; AUTOMOTIVE FUELS; PRICES;
AVAILABILITY; SOCIO-ECONOMIC FACTORS; FUEL
ECONOMY; VEHICLE TRIPS; ENERGY SHORTAGES;
GASOLINE; URBAN TRANSPORTATION; SURVEYS;
PUBLIC OPINION; AUTOMOBILES; OWNERSHIP;
COMPUTING

<378>

Lindgren, L.; Fitzgibbons, R.G.

Rath & Strong Inc.

ADDRESS: 21 Wrothen Road, Lexington, MA 02173

TITLE: Automotive Data Base for Manufacturing
Assessment System

398 p.

1976, June 1

SPONSOR: U.S. Dept. of Transportation,
Transportation Systems CenterKEYWORDS: AUTOMOTIVE INDUSTRY; TABLES (DATA);
GRAPHS (CHARTS); DATA BASES; COSTS;
DEVELOPMENT; MAINTENANCE; PRODUCTION;
COMPARATIVE EVALUATIONS; MANUFACTURING;
MANUFACTURERS; ENGINES; AUTOMOBILES;
VEHICLES; FUEL ECONOMY; TRUCKS; EQUIPMENT

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Lindsey-Kaufman Co

ADDRESS: 53 Hamilton Place, Tenafly, NJ 07670

TITLE: Projection of Light Truck Population to
Year 2025

Report No. ORNL/Sub-78/14285/1, Special, 64 p.

1978, October

SPONSOR: Oak Ridge National Laboratory, Energy
Division, Regional and Urban Studies Section;
U.S. Dept. of Energy, Division of
Transportation Energy ConservationKEYWORDS: TRUCKS; INVENTORIES; FORECASTING;
OWNERSHIP; GROWTH; HIGHWAY TRANSPORTATION;
UTILIZATION; VEHICLE REGISTRATIONS;
SOCIO-ECONOMIC FACTORS; VANS
AVAILABILITY: NTIS

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Lippmann, S.A.; Oblizajek, K.L.; Metters, J.J.

Uniroyal Tire Co.

TITLE: Sources of Rolling Resistance in Radial
Ply TiresPaper No. 780258, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 16 p.

1978

KEYWORDS: TIRES; FRICTION; WEAR; TESTING; HEAT;
GRAPHS (CHARTS); DESIGNAVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<381>

LHC Corp.

ADDRESS: 476 Dunn Circle, Sparks, NV 89431

TITLE: Evaluation of Selected Drive Components

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for a Plysheel Powered Conuster Vehicle.
Final Report. Phase I

Report No. SAN/1164-1, LNC-770401-B, v.p.
1977, June 30

SPONSOR: Energy Research and Development
Administration, San Francisco Operations
Office; U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: PLYSHEELS; ENERGY STORAGE; DIAGRAMS;
GRAPHS (CHARTS); ELECTRIC VEHICLES; TESTING;
MODELS; MOTORS; BEARINGS; SHAFTS; SEALS
AVAILABILITY: NTIS

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Lowcutoff, V.V.
Battelle Pacific Northwest Laboratories
ADDRESS: Richland, WA 99352
TITLE: Plysheel/Heat Engine Power for an
Energy-Economic Personal Vehicle

Report No. BNWL-2006, 48 p.
1976, March

SPONSOR: Energy Research and Development
Administration
KEYWORDS: PLYSHEELS; AUTOMOBILES; HEAT ENGINES;
FUEL CONSUMPTION; TABLES (DATA); FUEL
ECONOMY; DESIGN
AVAILABILITY: NTIS

<383>

Lutin, J.H.
Princeton University, Dept. of Civil Engineering
ADDRESS: Princeton, NJ
TITLE: Energy Savings for Work Trips: Analysis
of Alternative Commuting Patterns for New
Jersey

Report presented at the 54th Annual Meeting of
the Transportation Research Board, published
in "Transportation Energy Conservation and
Demand," Transportation Research Record 561,
23-36

1976

KEYWORDS: ENERGY CONSERVATION; COMMUTING; NEW
JERSEY; MAPS; COMPARATIVE EVALUATIONS; ENERGY
CONSUMPTION; GOVERNMENT POLICIES;
AUTOMOBILES; PUBLIC TRANSPORTATION; PLANNING;
AUTOMOBILE OCCUPANCY; MODELS; CARPOOLING;
EFFICIENCY
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$5.00 for Transportation Research Record 561

<384>

Rao, D.J.; Wang, G.H.; Weltzer, W.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Forecasting Models for Air Freight Demand
and Projection of Cargo Activity at U.S. Air
Hubs

Report No. FAA-AVP-77-2, 175 p.
1977, January

SPONSOR: U.S. Dept. of Transportation, Federal
Aviation Administration, Office of Aviation
Policy
KEYWORDS: FORECASTING; MODELS; CARGO
TRANSPORTATION; AVIATION; AIRPORTS;
ECONOMETRIC MODELS; PASSENGER EMPLACEMENTS;
TABLES (DATA); PASSENGER TRANSPORTATION;
GRAPHS (CHARTS); INTERNATIONAL TRAVEL; DEMAND
(ECONOMICS)
AVAILABILITY: NTIS

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Nak, K.K.; Jones, P.S.
Georgia Institute of Technology
TITLE: Priority Analysis Procedure for Ranking
Highway Improvement Projects

Report presented at the 54th Annual Meeting of
the Transportation Research Board, published
in Transportation Research Record 585, 35-48
1976

KEYWORDS: HIGHWAYS; CONSTRUCTION; PLANNING; STATE
GOVERNMENT; QUESTIONNAIRES
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.60 for Transportation Research Record 585

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Nalliaris, A.C.; Hsia, R.; Gould, H.H.
U.S. Dept. of Transportation
ADDRESS: Washington, DC
TITLE: Concise Description of Auto Fuel Economy
and Performance in Recent Model Years

Paper No. 760045 presented at the Automotive
Engineering Congress and Exposition, Detroit,
Michigan, February 23-27, 1976, 13 p.

1976

SPONSOR: Society of Automotive Engineers
KEYWORDS: ALGORITHMS; FUEL ECONOMY; VEHICLES;
TABLES (DATA); GRAPHS (CHARTS); AUTOMOBILES;
TRUCKS; PERFORMANCE; ACCELERATION
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.75

<387>

Handelker, D.R.; Stamper, R.A.
Washington, University of, School of Law
ADDRESS: Seattle, WA 98105
TITLE: New Frontiers for Land Development Controls

Paper presented at the 54th Annual Meeting of the
Transportation Research Board, published in
Transportation Research Record 565, 6-11

1976

SPONSOR: National Academy of Sciences,
Transportation Research Board
KEYWORDS: LAND DEVELOPMENT; POLLUTION
REGULATIONS; TRANSPORTATION SYSTEMS; AIR
POLLUTION; GOVERNMENT POLICIES
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$6.00 for Transportation Research Record No.
565

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Narcus, A.
Mechanical Technology Inc.
ADDRESS: 968 Albany-Shaker Road, Latham, NY
TITLE: An Advanced Electric Motor Transmission
for Electric Vehicles: Development Plan.
Technical Report

Report No. COO/2835-3, v.p.
1977, November

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: TECHNOLOGY ASSESSMENT; EFFICIENCY;
DESIGN; FABRICATION; ELECTRIC VEHICLES;
MODELS; TABLES (DATA); TRANSPORTATION; GRAPHS
(CHARTS); TESTING
AVAILABILITY: NTIS

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Marcus, A.; Pinkus, O.
Mechanical Technology Inc.
ADDRESS: Latham, NY
TITLE: Characterization Stud. of an Electric
Motor-Transmission System for Electric
Vehicles: Technical Report

Report No. COO/2835-2, v.p.
1977, September

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; PERFORMANCE; DESIGN;
BATTERIES; TECHNOLOGY; TESTING;
SPECIFICATIONS; ELECTRIC MOTORS; EFFICIENCY;
AUTOMOTIVE ENGINEERING; COST ESTIMATES;
GRAPHS (CHARTS); TABLES (DATA)
AVAILABILITY: NTIS

Characteristics of the 1975 Ford 140-CID
Automotive Engine--Experimental Data

Report No. PB-261771, DOT-TSC-OST-76-43, 40 p.
1976, November

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology, Office of Systems Engineering;
U.S. Dept. of Transportation, Transportation
Systems Center, Power and Propulsion Branch
KEYWORDS: FUEL CONSUMPTION; AUTOMOTIVE EMISSIONS;
INTERNAL COMBUSTION ENGINES; PERFORMANCE;
HYDROCARBONS; CARBON MONOXIDE; NITROGEN
OXIDES; TESTING; GRAPHS (CHARTS); TABLES
(DATA)
AVAILABILITY: NTIS

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Harek, C.; Jones, T.R.
Vulcan Materials Co.
TITLE: Will There Be a Materials Crisis?

Paper published in Transportation Research Board
Special Report 166, 18-28
1976

KEYWORDS: CONSTRUCTION; MATERIALS;
TRANSPORTATION; MINERALS; RESERVES;
PRODUCTION; TABLES (DATA); GRAPHS (CHARTS)
AVAILABILITY: National Academy of Sciences,
National Research Council, Transportation
Research Board, 2101 Constitution Ave. NW,
Washington, DC 20418 \$6.00 for TRB Special
Report 166

<394>

Martin, W.F. (ed.)
Massachusetts Institute of Technology, Workshop
on Alternative Energy Strategies (WAES)
ADDRESS: Cambridge, MA 02139
TITLE: Energy Supply to the Year 2000: Global
and National Studies

Second Technical Report of the Workshop on
Alternative Energy Strategies (WAES), 422 p.
1977

SPONSOR: National Science Foundation
KEYWORDS: ENERGY SUPPLIES; FORECASTING;
INTERNATIONAL ANALYSIS; COAL; RESERVES;
ENERGY DEMAND; NATURAL GAS; PRODUCTION;
ENERGY CONSUMPTION; NUCLEAR ENERGY; FUELS;
FOSSIL FUELS; UNCONVENTIONAL ENERGY SOURCES;
PETROLEUM; INTERNATIONAL TRADE; GROWTH;
CANADA; DENMARK; FINLAND; FRANCE; GERMANY
FEDERAL REPUBLIC; ITALY; JAPAN; MEXICO;
NETHERLANDS; NORWAY; SWEDEN; UNITED KINGDOM;
UNITED STATES; OPEC; COSTS; TABLES (DATA);
EUROPE; GOVERNMENT POLICIES; PRICES
AVAILABILITY: MIT Press, Cambridge, MA 02139
\$30.00

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Harex, Marketing Committee
ADDRESS: 401 W. Michigan Ave., Chicago, IL 60611
TITLE: State Boat Registration 1967 - 1975

25 p.

KEYWORDS: BOATS; VEHICLE REGISTRATIONS;
MATERIALS; TABLES (DATA); SIZE

<392>

Marshall, W.F.; Stamper, R.R.
Energy Research and Development Administration,
Bartlesville Energy Research Center
ADDRESS: P.O. Box 1398, Bartlesville, OK 74003
TITLE: Fuel Consumption, Emissions, and Power
Characteristics of the 1975 Datsun 119-CID
Automotive Engine--Experimental Data

Report No. PB-261308, DOT-TSC-OST-76-42, 40 p.
1976, November

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology, Office of Systems Engineering;
U.S. Dept. of Transportation, Transportation
Systems Center, Power and Propulsion Branch
KEYWORDS: FUEL CONSUMPTION; AUTOMOTIVE EMISSIONS;
INTERNAL COMBUSTION ENGINES; PERFORMANCE;
TESTING; CARBON MONOXIDE; NITROGEN OXIDES;
HYDROCARBONS; GRAPHS (CHARTS); TABLES (DATA)
AVAILABILITY: NTIS

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Martini, W.R.
Washington, University of, Joint Center for
Graduate Study
ADDRESS: 100 Sprout Rd., Richland, WA 99352
TITLE: Stirling Engine Design Manual

Final Report, Report No. DOE/NASA/3152-78/1, NASA
CR-135382, 370 p.

1978, April

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation; National
Aeronautics and Space Administration, Lewis
Research Center

KEYWORDS: STIRLING ENGINES; DESIGN; MANUALS;
BIBLIOGRAPHIES; PERFORMANCE; OPTIMIZATION;
SIMULATION; MODELS; DIAGRAMS; RESEARCH
AVAILABILITY: NTIS

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Mason, W.T., Jr.; Bebbe, P.S.
General Motors Corp., Research Laboratories,
Fluid Dynamics Research Dept.
ADDRESS: Warren, MI 48090
TITLE: The Drag Related Flow Field
Characteristics of Trucks and Buses

Research Publication GHR-2257, presented at 1976
GHR Symposium on Aerodynamic Drag Mechanisms
of Bluff Bodies and Road Vehicles, September
27, 1976, 64 p.

1977, August

KEYWORDS: TRUCKS; BUSES (VEHICLES); AERODYNAMICS;
DESIGN; SIZE; DRAG; TRAILERS; DIAGRAMS;

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Marshall, W.F.; Stamper, R.R.
Energy Research and Development Administration,
Bartlesville Energy Research Center
ADDRESS: P.O. Box 1398, Bartlesville, OK 74003
TITLE: Fuel Consumption, Emissions, and Power

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<396> CONT.
PHOTOGRAPHS

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Maximina, D.E. (compiler); Mobley, E.R. (ed.)
General Motors Corp., Research Laboratories,
Library, System on Automotive Safety
Information
ADDRESS: Warren, MI 48090
TITLE: Electric Vehicles, 1890-1966: A
Bibliography

Report No. GHR-2425, SASI 77-521, v.p.
1977, May 13
KEYWORDS: ELECTRIC VEHICLES; BIBLIOGRAPHIES;
HISTORY; AUTOMOBILES; BUSES (VEHICLES);
TAXICABS; TRUCKS; EQUIPMENT; BATTERIES

<398>
McCarthy, K.F.; Morrison, P.A.
Rand Corp.
ADDRESS: 1700 Main Street, Santa Monica, CA 90406
TITLE: The Changing Demographic and Economic
Structure of Nonmetropolitan Areas in the
1970's

Report No. P-6062, earlier version given at
Annual Meeting of Population Association of
America, April, 1977, St. Louis, Missouri, 51
p.
1978, January
KEYWORDS: POPULATION GROWTH; DEMOGRAPHY; URBAN
DEVELOPMENT; RURAL AREAS; RECREATION; FAMILY
LIFE; MANUFACTURING; EMPLOYMENT; REGIONAL
ANALYSIS; POPULATION MIGRATION; STATE
GOVERNMENT; TABLES (DATA); ECONOMIC
CONDITIONS; INCOME; MAPS; TRANSPORTATION;
COMMUTING; GRAPHS (CHARTS); LIFE STYLE;
SOCIO-ECONOMIC FACTORS

<399>
McGillivray, R.G.
Urban Institute
ADDRESS: 2100 M Street NW, Washington, DC 20037
TITLE: Gasoline Use by Automobiles

Paper presented at the 54th Annual Meeting of the
Transportation Research Board, published in
Transportation Research Record 561, entitled
"Transportation Energy Conservation and
Demand," 45-56

1976
SPONSOR: National Academy of Sciences,
Transportation Research Board
KEYWORDS: GASOLINE; CONSUMPTION; AUTOMOBILES;
TRANSPORTATION; FUEL CONSUMPTION; COSTS;
TABLES (DATA); FORECASTING; DEMAND
(ECONOMICS); MATHEMATICAL MODELS; PASSENGER
TRANSPORTATION; OWNERS; MARKET; PRICES;
ELASTICITY (ECONOMICS)

<400>
McGraw-Hill Publications Co., Research Division
ADDRESS: 1221 Avenue of the Americas, New York,
NY 10020
TITLE: Fleet Owner Fuels and Lubricants Survey

1978, February
SPONSOR: McGraw-Hill Publications, Fleet Owner
KEYWORDS: SURVEYS; MOTOR VEHICLES; LUBRICANTS;
DIESEL FUELS; PURCHASES; QUESTIONNAIRES;
MAINTENANCE; FUEL CONSUMPTION; TRUCKS; TABLES
(DATA); GASOLINE; FUEL STORAGE
AVAILABILITY: \$25.00

<401>
McKetta, J.
Texas, University of
ADDRESS: Austin, TX
TITLE: The Energy Crisis: Fact or Fiction

Paper published in Transportation Research Board
Special Report 166, 5-9
1976

KEYWORDS: ENERGY SHORTAGES; IMPORTS; ENERGY
CONSUMPTION; PRODUCTION; PETROLEUM; NATURAL
GAS; COAL; ENERGY DEMAND; RESERVES; ENERGY
SOURCES; GRAPHS (CHARTS)
AVAAILABILITY: National Academy of Sciences,
National Research Council, Transportation
Research Board, 2101 Constitution Ave. NW,
Washington, DC 20418 \$6.00 for TRB Special
Report 166

<402>
McLean, A.F.; Baker, R.R.
Ford Motor Co.
ADDRESS: Dearborn, MI 48121
TITLE: Brittle Materials Design, High Temperature
Gas Turbine. Volume 2: Ceramic Turbine
Rotor Technology

Report No. AMRC TR 78-14, DA-OD 4733, 12th
Interim Report for the Period January -
September 1977, 93 p.
1978, March
SPONSOR: U.S. Dept. of Defense, Army Materials
and Mechanics Research Center; U.S. Dept. of
Energy, Division of Transportation Energy
Conservation

KEYWORDS: MATERIALS; DESIGN; GAS TURBINES;
CERAMICS; ROTORS; TECHNOLOGY; HIGH
TEMPERATURE; BRITTLENESS; FABRICATION;
SILICON NITRIDES; TESTING; COMPUTER PROGRAMS;
TABLES (DATA); GAS TURBINE ENGINES; SILICON
CARBIDES; MECHANICAL PROPERTIES; PHOTOGRAPHS;
DIAGRAMS
AVAILABILITY: NTIS

<403>
McNutt, R.; Pirkey, D.; Dulla, R.
U.S. Dept. of Energy; Energy and Environmental
Analysis Inc.
TITLE: Passenger Car Classification Using
Interior Volume: A 1978 Up-Date

Paper No. 780133, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 24 p.

1978
KEYWORDS: AUTOMOBILES; CLASSIFICATIONS; VOLUME;
SIZE; WEIGHT; FUEL ECONOMY; DESIGN; PASSENGER
TRANSPORTATION; TABLES (DATA)
AVAILABILITY: Society of Automotive Engineers
Inc, 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<404>
McNutt, R.; Pirkey, D.; Dulla, R.; Miller, C.
U.S. Dept. of Energy; Energy and Environmental
Analysis Inc.
TITLE: A Comparison of Fuel Economy Results from
EPA Tests and Actual In-Use Experience,
1974-1977 Model Year Cars

Paper No. 780037, presented at the Society of
Automotive Engineers' Congress and

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Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 44 p.

1978

KEYWORDS: FUEL ECONOMY; AUTOMOBILES; TESTING;
COMPARATIVE EVALUATIONS; ENVIRONMENTAL
PROTECTION AGENCY; US DOE; MILBAGE;
OPERATION; DRIVING CYCLE; DATA ACQUISITION;
MANUFACTURERS; CLASSIFICATIONS; GRAPHS
(CHARTS)

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<405>

McNutt, R.D.; Pirkey, D.; Dulla, R.
Federal Energy Administration
ADDRESS: Washington, DC

TITLE: Development of a System of Comparable Car
Classes for Fuel Economy Labeling

Paper No. 760794, paper presented at the Society
of Automotive Engineers Automobile
Engineering Meeting, Dearborn, Michigan,
October 18-22, 1976, 38 p.

1976

SPONSOR: Society of Automotive Engineers
KEYWORDS: AUTOMOBILES; FUEL ECONOMY; COMPARATIVE
EVALUATIONS; CLASSIFICATIONS; TABLES (DATA);
PUBLIC OPINION; CONSUMERS; PRICES;
PERFORMANCE; GRAPHS (CHARTS); ENVIRONMENTAL
PROTECTION AGENCY; SIZE

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

<406>

Head, W.J.; Rogers, G.W.; Smith, R.Z.
California, University of; Alaska, University of,
Institute of Social, Economic and
Governmental Research; U.S. Dept. of State
ADDRESS: CU, Santa Barbara, CA 93109; AU,
College, AK 99701; USDS, Washington, DC
20520

TITLE: Transporting Natural Gas from the Arctic:
The Alternative Systems

111 p.

1977

SPONSOR: American Enterprise Institute for Public
Policy Research

KEYWORDS: NATURAL GAS; ARCTIC; PRUDHOE BAY
(ALASKA); ENVIRONMENTAL IMPACT; TABLES
(DATA); MAPS; ECONOMIC ANALYSIS;
TRANSPORTATION; GOVERNMENT POLICIES;
REGULATIONS; COSTS; CANADA; ALASKA;
TRANSPORTATION SYSTEMS

AVAILABILITY: American Enterprise Institute for
Public Policy Research, 1150 Seventeenth St.
NW, Washington, DC 20036 \$3.25

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Mechanical Technology Inc., R&D Division
TITLE: Characterization Study of an Electric
Motor-Transmission System for Electric
Vehicles

Report No. MCP/R2835-01, v.p.

1978, March

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; PERFORMANCE; DESIGN;
AUTOMOBILE TRANSMISSIONS; TABLES (DATA);
GRAPHS (CHARTS)

AVAILABILITY: NTIS

<408>

Hellman, R.S.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Aggregate Auto Travel Forecasting: State
of the Art and Suggestions for Future Research

Report No. PB-263351, DOT-TSC-OST-76-51, 46 p.
1976, December

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology

KEYWORDS: TRAVEL; FORECASTING; AUTOMOBILES;
MODELS; VEHICLE MILES TRAVELED

AVAILABILITY: NTIS

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Mencik, Z.; Blusberg, P.W.
Ford Motor Co., Engineering and Research Staff
ADDRESS: Dearborn, MI
TITLE: Representation of Engine Data by
Multi-Variate Least-Squares Regression

Paper No. 780288, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 16 p.

1978

KEYWORDS: AUTOMOTIVE ENGINES; VELOCITY;
PERFORMANCE; DESIGN; LOAD FACTOR; FUEL
ECONOMY; AUTOMOTIVE CONTROL SYSTEMS;
REGRESSION ANALYSIS; AUTOMOTIVE EMISSIONS;
TABLES (DATA)

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Mencik, Z.; Tobler, W.E.; Blusberg, P.W.
Ford Motor Co., Engineering and Research Staff
ADDRESS: Dearborn, MI
TITLE: Simulation of Wide-Open Throttle Vehicle
Performance

Paper No. 780289, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 16 p.

1978

KEYWORDS: MODELS; COMPUTERIZED SIMULATION;
AUTOMOBILES; VELOCITY; MECHANICAL
TRANSMISSIONS; TIRES; FRICTION; AUTOMOTIVE
ENGINES; PERFORMANCE; GRAPHS (CHARTS)

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Mercedes-Benz of North America Inc., Advertising
and Sales Promotion Dept.
ADDRESS: One Mercedes Drive, Montvale, NJ 07645
TITLE: Directory of Diesel Fuel Stations and
Authorized Mercedes-Benz Dealers

112 p.

1977

KEYWORDS: RETAIL TRADE; DIRECTORIES; DIESEL
FUELS; STATE ANALYSIS; CANADA; MAPS;
AUTOMOBILES; GAS STATIONS; SALES

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Highdell, P.; Hahn, W.F.
Boos, Allen & Hamilton Inc., Design and
Development Division
ADDRESS: Cleveland, OH 44131
TITLE: Preliminary Power Train Design for a
State-of-the-Art Electric Vehicle

Report No. DOE/NASA/0595-78/1, NASA CR-13541, 140
p.

1978, April

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Electric
and Hybrid Vehicle Systems Program; National
Aeronautics and Space Administration, Lewis
Research Center

KEYWORDS: POWER TRAIN SYSTEMS; ELECTRIC VEHICLES;
TECHNOLOGY ASSESSMENT; MOTORS; AUTOMOBILE
TRANSMISSIONS; MODELS; DESIGN; COMPUTERIZED
SIMULATION; DIAGRAMS; TABLES (DATA)
AVAILABILITY: NTIS

<413>

Hiles, D.L.; Niepoth, G.W.
General Motors Corp., Engineering Staff
ADDRESS: Detroit, MI
TITLE: Optimizing Engine and Car Design for Fuel
Economy and Emissions

Paper No. 760855, published in SAE SP-411, 23-32
1978, August

SPONSOR: Society of Automotive Engineers,
Milwaukee Section

KEYWORDS: FUEL ECONOMY; AUTOMOTIVE ENGINEERING;
AUTOMOBILES; DESIGN; WEIGHT; AUTOMOBILE
EMISSION CONTROL; FUEL CONSUMPTION; GRAPHS
(CHARTS); PERFORMANCE

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 for SAE SP-411

<414>

Haine, J.A.; Cantwell, C.; Rissler, K.
Chilton Co.
ADDRESS: Radnor, PA 19089
TITLE: Automobile Characteristics Historical Data
Base

Report No. DOT-TSC-OST-77-12, 76 p.

1977, August

SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Systems Development and
Technology; U.S. Dept. of Transportation,
Transportation Systems Center

KEYWORDS: DATA BASES; HISTORY; AUTOMOBILES;
CHARACTERISTICS; FUEL ECONOMY; PRODUCTION;
TABLES (DATA); AUTOMOBILE EMISSIONS;
MANUFACTURERS; COMPARATIVE EVALUATIONS;
PERFORMANCE; OPERATION; WEIGHT

AVAILABILITY: NTIS

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Miner, D.K.
Copper Development Association Inc.
ADDRESS: Birmingham, MI
TITLE: Comparison of an Electric Versus a
Gasoline Powered Utility Truck in Two Years
of a Service Test Program

Paper presented at the Fourth International
Electric Vehicle Symposium (sponsored by the
Electric Vehicle Council and the
International Union of Producers and
Distributors of Electrical Energy), held in
Dusseldorf, Germany, August 31 - September 2,
1976, 25 p.
1976, September

KEYWORDS: COMPARATIVE EVALUATIONS; ELECTRIC
VEHICLES; TESTING; OPERATING COSTS;
MAINTENANCE; VANS; PERFORMANCE; FUEL
CONSUMPTION
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Nitric, S.
Ohio State University, Dept. of Civil Engineering
ADDRESS: Columbus, OH
TITLE: Methodology of Comparing Modes in Urban
Transport

Paper presented at the Fifty-sixth Annual Meeting
of the Transportation Research Board,
Washington, DC, January 24-26, 1977, 34 p.
1977, January

SPONSOR: Ohio State University, Graduate School
KEYWORDS: URBAN TRANSPORTATION; COMPARATIVE
EVALUATIONS; TRANSPORTATION SYSTEMS; RAIL
TRANSPORTATION; RAPID TRANSIT SYSTEMS; BUSES
(VEHICLES); COSTS; BAY AREA RAPID TRANSIT
SYSTEM

<417>

Hittal, R.K.
Union College, Mechanical Engineering Dept.
ADDRESS: Schenectady, NY 12308
TITLE: Energy Intensity of Intercity Passenger
Rail

Report No. DOT/RSPD/DPS/50-78/7, 296 p.

1977, December

SPONSOR: U.S. Dept. of Transportation, Office of
University Research

KEYWORDS: RAIL TRANSPORTATION; ENERGY INTENSITY;
PASSENGER TRANSPORTATION; LOAD FACTOR;
INTERCITY TRANSPORTATION; EFFICIENCY; ENERGY
CONSUMPTION; RAILROAD CARS; OPERATION;
CAPACITY; ELECTRIC RAIL SYSTEMS; AUTOMOBILES;
BUSES (VEHICLES); GRAPHS (CHARTS); TABLES
(DATA)

AVAILABILITY: GPO

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Hittal, R.K. (ed.)
Union College
ADDRESS: Schenectady, NY 12308
TITLE: Third National Conference on the Effects
of Energy Constraints on Transportation
Systems

Proceedings of a conference held at Union
College, Schenectady, New York, August 2-6,
1976, 408 p.

1977, May

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYWORDS: TRANSPORTATION SYSTEMS; ENERGY
CONSUMPTION; ENERGY CONSERVATION; URBAN
TRANSPORTATION; BAY AREA RAPID TRANSIT
SYSTEM; CARGO TRANSPORTATION; RAIL
TRANSPORTATION; PASSENGER TRANSPORTATION;
REGULATIONS; CARPOOLING; TRUCKS; FUEL
ECONOMY; INTERCITY TRANSPORTATION; RAPID
TRANSIT SYSTEMS; AIR TRANSPORTATION; TABLES
(DATA); CONFERENCES; COMPUTERIZED SIMULATION
AVAILABILITY: GPO, Stock No. 060-000-00073-5

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Hittal, R.K.; Rose, A.
Union College, Mechanical Engineering Dept.

<419> CONT.
 ADDRESS: Schenectady, NY 12308
 TITLE: Track Data Characteristics for New York
 City - Buffalo Corridor

Final Report, Report No. DOT/RSPD/DPB/50-77/09,
 49 p.
 1977, August
 SPONSOR: U.S. Dept. of Transportation, Office of
 University Research
 KEYWORDS: NEW YORK CITY; RAIL TRANSPORTATION;
 RAILROAD TRACKS; DISTANCE; BUFFALO (NEW
 YORK); TRAVEL TIME; ENERGY CONSUMPTION;
 EFFICIENCY; AUTOMOBILES; URBAN
 TRANSPORTATION; SPEED LIMITS;
 CHARACTERISTICS; TABLES (DATA); GRAPHS
 (CHARTS); COMPARATIVE EVALUATIONS

<420>
 Mittal, R.K.; Santamaria, J.
 Union College, Mechanical Engineering Dept.
 ADDRESS: Schenectady, NY 12308
 TITLE: State of the Art in Passenger Rail-Rolling
 Stock Equipment

Final Report, Report No. DOT/RSPD/DPB/50-77/10,
 v. p.
 1977, September
 SPONSOR: U.S. Dept. of Transportation, Office of
 University Research
 KEYWORDS: RAILROADS; EQUIPMENT; PASSENGER
 TRANSPORTATION; PERFORMANCE; LOCOMOTIVES;
 RAILROAD CARS; PHYSICAL PROPERTIES;
 MECHANICAL PROPERTIES; FUEL CONSUMPTION;
 GRAPHS (CHARTS); DIAGRAMS; TABLES (DATA);
 EFFICIENCY; ANTRAK
 AVAILABILITY: NTIS

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 Mobley, R.R. (compiler)
 General Motors Corp., Research Laboratories,
 Library, System on Automotive Safety
 Information
 ADDRESS: Warren, MI 48090
 TITLE: Bibliography on Electric Vehicles:
 1967-1976

Report No. SASI 77-401, v.p.
 1977, April 15
 KEYWORDS: ELECTRIC VEHICLES; BIBLIOGRAPHIES;
 HISTORY; CONFERENCES; ENVIRONMENTAL IMPACT;
 GOVERNMENT POLICIES; AUTOMOBILES; BUSES
 (VEHICLES); HYBRID ELECTRIC-POWERED VEHICLES;
 TRUCKS; VANS; BATTERIES

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 Moncrief, L.W.; Houser, T.W.; Pitrak, P.
 Michigan State University, Dept. of Park and
 Recreation Resources
 ADDRESS: East Lansing, MI
 TITLE: The Influence of Gasoline Price and
 Availability Upon Recreation Travel Propensity

Communications, 3(5), 431-447
 1977
 SPONSOR: Upper Great Lakes Regional Commission
 KEYWORDS: GASOLINE; PRICES; RECREATIONAL TRAVEL;
 FUEL CONSUMPTION; TOURISM; GREAT LAKES;
 REGIONAL ANALYSIS; INCOME; AUTOMOBILES;
 ATTITUDES; PUBLIC OPINION

<423>
 Nonford, L.G.
 National Aeronautics and Space Administration,

Lyndon B. Johnson Space Center
 ADDRESS: Houston, TX 77058
 TITLE: Performance Characteristics of a Diesel
 Engine Using Low- and Medium-Energy Gases as
 a Fuel Supplement (Fueigation)

Report No. N77-14955, NASA TM X-58188, 23 p.
 1976, October
 SPONSOR: National Aeronautics and Space
 Administration
 KEYWORDS: DIESEL ENGINES; SOLID WASTES; ALTERNATE
 FUELS; FUEIGATION; DIESEL FUELS; PERFORMANCE;
 SYNTHETIC FUELS
 AVAILABILITY: NTIS

<424>
 Noon, A.E.
 Stanford Research Institute
 ADDRESS: Menlo Park, CA 94025
 TITLE: Energy Study of Railroad Freight
 Transportation. Volume 1: Executive Summary

SRI Project TCU 5419, 37 p.
 1977, August
 SPONSOR: Energy Research and Development
 Administration
 KEYWORDS: RAIL TRANSPORTATION; CARGO
 TRANSPORTATION; ENERGY CONSUMPTION; ENERGY
 CONSERVATION; GOVERNMENT POLICIES;
 REGULATIONS; ECONOMICS; EQUIPMENT;
 EFFICIENCY; GRAPHS (CHARTS)

<425>
 Noon, A.E.
 Stanford Research Institute
 ADDRESS: Menlo Park, CA 94025
 TITLE: Energy Study of Railroad Freight
 Transportation. Volume 2: Industry
 Description

SRI Project TCU 5419, 146 p.
 1977, August
 SPONSOR: Energy Research and Development
 Administration
 KEYWORDS: RAIL TRANSPORTATION; CARGO
 TRANSPORTATION; ENERGY CONSUMPTION; ENERGY
 CONSERVATION; GOVERNMENT POLICIES;
 REGULATIONS; ECONOMICS; EQUIPMENT;
 EFFICIENCY; HISTORY; CONSTRUCTION; RAILROADS;
 MODELS; COSTS; TRUCKS; REGULATIONS; TABLES
 (DATA); GRAPHS (CHARTS)

<426>
 Noon, A.E.; Proctor, H.S.
 Stanford Research Institute
 ADDRESS: Menlo Park, CA 94025
 TITLE: Energy Study of Railroad Freight
 Transportation. Volume 4: Efficiency
 Improvements and Industry Future

SRI Project TCU 5419, 155 p.
 1977, August
 SPONSOR: Energy Research and Development
 Administration
 KEYWORDS: RAIL TRANSPORTATION; CARGO
 TRANSPORTATION; EFFICIENCY; FORECASTING;
 TECHNOLOGY; ENERGY CONSERVATION; MARKET;
 RESEARCH; BIBLIOGRAPHIES; COSTS; EQUIPMENT

<427>
 Moore, H. (ed.)
 National Academy of Sciences, National Research
 Council, Transportation Research Board
 ADDRESS: 2101 Constitution Ave. NW, Washington,

<427>
 <427> CONT.
 DC 20418
 TITLE: Transportation Programming and Management
 Transportation Research Record 585, 7 reports
 prepared for the 56th Annual Meeting of the
 Transportation Research Board, 78 p.
 1976
 KEYWORDS: TRANSPORTATION; MANAGEMENT; HIGHWAYS;
 CONSTRUCTION; PLANNING; SAFETY; FLORIDA;
 WASHINGTON; STATE GOVERNMENT; GOVERNMENT
 POLICIES; TABLES (DATA)
 AVAILABILITY: \$3.60

<428>
 Morlok, E.K.
 Pennsylvania, University of, Civil and Urban
 Engineering Dept.
 ADDRESS: Philadelphia, PA 19174
 TITLE: An Engineering Analysis and Comparison of
 Railroad and Truck Line-Haul Work (Energy)
 Requirements

Paper presented in the proceedings of the Third
 National Conference on the Effects of Energy
 Constraints on Transportation Systems, R. K.
 Mittal (ed.), pp. 81-107; a similar paper
 entitled "A Comparison of Railroad and Truck
 Line-Haul Work (Energy) Requirements Under
 Various Shipment Weight, Speed, and
 Topographic Conditions" was presented to the
 Transportation Research Board, January 1976
 1977, March
 KEYWORDS: RAIL TRANSPORTATION; TRUCKS; ENERGY
 CONSUMPTION; WEIGHT; VELOCITY; ENERGY DEMAND;
 COMPARATIVE EVALUATIONS; CARGO
 TRANSPORTATION; INTERCITY TRANSPORTATION;
 FUEL CONSUMPTION; TABLES (DATA); GRAPHS
 (CHARTS); ENGINEERING; MODELS; PROPULSION
 AVAILABILITY: GPO, Stock No. 060-000-00073-5 for
 entire proceedings

<429>
 Morrison, P.A.
 Rand Corp.
 ADDRESS: 1700 Main Street, Santa Monica, CA 90406
 TITLE: Current Demographic Change in Regions of
 the United States

Report No. P-6000, presented at a conference on
 "Alternatives to Confrontations: A National
 Policy Toward Change", held at the University
 of Texas, Austin, Texas, September 24-27,
 1977, 37 p.
 1977, November
 SPONSOR: U.S. Dept. of Commerce
 KEYWORDS: DEMOGRAPHY; ECONOMIC IMPACT; REGIONAL
 ANALYSIS; POPULATION MIGRATION; EDUCATION;
 SOCIAL PROBLEMS; URBAN AREAS; ENERGY
 SHORTAGES; NORTHEASTERN STATES; IMPORTS;
 GREAT LAKES; SOUTHERN STATES; WESTERN STATES;
 POLITICAL OBJECTIVES; RURAL AREAS; PLANNING;
 STABILITY; GROWTH; STATISTICS; GRAPHS
 (CHARTS); TABLES (DATA); FAMILY LIFE; MAPS;
 LABOR MIGRATION

<430>
 Motor Vehicle Manufacturers Association of the
 U.S. Inc.
 ADDRESS: 300 New Center Building, Detroit, MI
 48202
 TITLE: Motor Vehicle Facts & Figures '78

Annual publication, 96 p.
 1978
 KEYWORDS: MOTOR TRANSPORTATION; STATISTICS; FUEL
 ECONOMY; STANDARDS; TRUCKS; BUSES (VEHICLES);
 PASSENGER TRANSPORTATION; ENERGY

CONSERVATION; ECONOMIC ANALYSIS;
 MANUFACTURERS; GRAPHS (CHARTS); FUEL
 CONSUMPTION; EMISSIONS; AIR TRANSPORTATION;
 EXPORTS; WATER TRANSPORTATION; TAXES; RAIL
 TRANSPORTATION; EMPLOYMENT; EARNINGS; ROADS;
 ACCIDENTS; VEHICLE REGISTRATIONS; OWNERSHIP;
 PRODUCTION; VEHICLE MILES TRAVELED

<431>
 Motor Vehicle Manufacturers Association of the
 U.S. Inc., Statistics Dept.
 ADDRESS: 300 New Center Building, Detroit, MI
 48202
 TITLE: World Motor Vehicle Data: 1977 Edition

Annual publication, 206 p.
 1977
 KEYWORDS: STATISTICS; VEHICLES; TABLES (DATA);
 INTERNATIONAL TRADE; PRODUCTION; EXPORTS;
 VEHICLE REGISTRATIONS; AFRICA; ASIA; EUROPE;
 IMPORTS; AUSTRALIA; NEW ZEALAND; REGIONAL
 ANALYSIS; NORTH AMERICA; SOUTH AMERICA
 AVAILABILITY: \$20.00

<432>
 Motor Vehicle Manufacturers Association of the
 U.S. Inc., Statistics Dept.
 ADDRESS: Detroit, MI 48202
 TITLE: Motor Vehicle Factory Sales from Plants in
 U.S. & Canada

Weekly publication, Series No. FS-4, v.p.
 Weekly
 KEYWORDS: MOTOR VEHICLES; AUTOMOBILES; TRUCKS;
 BUSES (VEHICLES); STATISTICS; EXPORTS;
 IMPORTS; COSTS; PRODUCTION; SALES

<433>
 Motorcycle Industry Council Inc., Research and
 Statistics Dept.
 ADDRESS: 4100 Buck Street, Suite 101, Newport
 Beach, CA 92660
 TITLE: 1978 Motorcycle Statistical Annual

Annual report, 46 p.
 1978
 KEYWORDS: MOTORCYCLES; STATISTICS; MARKET;
 VEHICLE REGISTRATIONS; MANUFACTURERS;
 UTILIZATION; VEHICLE MILES TRAVELED;
 FINANCIAL DATA; SALES; IMPORTS; OPERATING
 COSTS; ACCIDENTS; OWNERS; COSTS
 AVAILABILITY: \$5.00

<434>
 Hudge, R.R.; Wheeler, P.K.
 U.S. Congress, Congressional Budget Office,
 Natural Resources and Commerce Division
 ADDRESS: Washington, DC
 TITLE: Urban Mass Transportation: Options for
 Federal Assistance

Budget Issue Paper, 73 p.
 1977, February
 KEYWORDS: URBAN TRANSPORTATION; MASS
 TRANSPORTATION; GOVERNMENT POLICIES; BUDGETS;
 CAPITAL; INVESTMENTS
 AVAILABILITY: GPO \$1.65

<435>
 Mueller Associates Inc.

<435> CONT.
 ADDRESS: Baltimore, MD
 TITLE: Status of Alcohol Fuels Utilization
 Technology for Highway Transportation

Report No. HCP/H2923-01, 132 p.
 1978, June
 SPONSOR: U.S. Dept. of Energy, Division of
 Transportation Energy Conservation
 KEYWORDS: ALTERNATE FUELS; UTILIZATION; ALCOHOL
 FUELS; HIGHWAY TRANSPORTATION; METHANOL;
 ETHANOL; TESTING; ENGINES; EMISSIONS;
 PERFORMANCE; FUEL ECONOMY; FUEL CONSUMPTION;
 COMPARATIVE EVALUATIONS; PROPERTIES; COSTS;
 GRAPHS (CHARTS); WATER
 AVAILABILITY: NTIS

<436>
 Mueller Associates Inc.
 ADDRESS: Baltimore, MD
 TITLE: Denaturants for Ethanol/Gasoline Blends

Report No. HCP/H2098-01, 16 p.
 SPONSOR: U.S. Dept. of Energy, Division of
 Transportation Energy Conservation
 KEYWORDS: ETHANOL; GASOLINE; ALTERNATE FUELS;
 DENATURANTS

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 Mufti, F.K.; Goffin, L.S.; Dougherty, C.D.
 Delaware Valley Regional Planning Commission
 ADDRESS: Philadelphia, PA
 TITLE: Modal-Choice Analysis of an Exclusive Bus
 and Car-Pool Lane (Abridgment)

Paper published in Transportation Research Record
 626, 27-29
 1977
 SPONSOR: U.S. Dept. of Transportation, Federal
 Highway Administration; U.S. Dept. of
 Transportation, Urban Mass Transportation
 Administration; New Jersey Dept. of
 Transportation
 KEYWORDS: TRAFFIC CONTROL; HIGHWAY
 TRANSPORTATION; BUSES (VEHICLES); CARPOOLING;
 MODELS; COMPARATIVE EVALUATIONS
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$2.20 for Transportation Research Record 626

<438>
 Mundt, F.H.
 Peat, Marwick, Mitchell and Co.
 TITLE: Multiproject Scheduling for Transportation
 Construction Programs

Report presented at the 54th Annual Meeting of
 the Transportation Research Board, published
 in Transportation Research Record 585, 17-24
 1976
 KEYWORDS: TRANSPORTATION; CONSTRUCTION;
 SCHEDULING; STATE GOVERNMENT; MANAGEMENT;
 FUNDING; FLORIDA; PLANNING
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$3.60 for Transportation Research Record 585

<439>
 Handy, R.A.
 Tennessee, University of, Transportation Center
 ADDRESS: Knoxville, TN
 TITLE: Mass Transit Guidelines Versus a Consumer

<435>
 Orientation in Public Transportation Systems
 Paper published in Transportation Research Record
 625, 33-37
 1977
 SPONSOR: National Cooperative Highway Research
 Program
 KEYWORDS: MASS TRANSPORTATION; PUBLIC
 TRANSPORTATION; CONSUMERS; ATTITUDES; SERVICES
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$3.20 for Transportation Research Record 625

<440>
 Munson, J.S.; Brainard, J.P.
 Brookhaven National Laboratory, National Center
 for Analysis of Energy Systems, Policy
 Analysis Division
 ADDRESS: Upton, NY 11973
 TITLE: The Energy Situation in the Mid-Atlantic
 Region

Report No. BNL 50703, 253 p.
 1977, August
 SPONSOR: U.S. Dept. of Energy
 KEYWORDS: MIDDLE ATLANTIC STATES; ENERGY
 SUPPLIES; ENERGY DEMAND; DISTRICT OF
 COLUMBIA; DELAWARE; MARYLAND; NEW JERSEY; NEW
 YORK; OHIO; PENNSYLVANIA; PUERTO RICO;
 VIRGINIA; VIRGIN ISLANDS; ENERGY CONSUMPTION;
 PETROLEUM; NATURAL GAS; COAL; NUCLEAR ENERGY;
 HYDROELECTRIC POWER; TABLES (DATA); REGIONAL
 ANALYSIS; STATE ANALYSIS; ELECTRIC UTILITIES;
 PRODUCTION; EMPLOYMENT; GRAPHS (CHARTS);
 PRICES; ENVIRONMENTAL IMPACT; AIR QUALITY;
 WATER QUALITY; ENERGY CONSERVATION;
 GOVERNMENT POLICIES; LEGISLATION
 AVAILABILITY: NTIS

<441>
 Murrell, J.D.
 U.S. Environmental Protection Agency
 TITLE: Light Duty Automotive Fuel Economy ...
 Trends Through 1978

Paper 780036, presented at the Society of
 Automotive Engineers' Congress and
 Exposition, Cobo Hall, Detroit, Michigan,
 February 27 - March 3, 1978, 36 p.
 1978
 SPONSOR: Society of Automotive Engineers
 KEYWORDS: FUEL ECONOMY; AUTOMOBILES; TRUCKS;
 STANDARDS; WEIGHT; GRAPHS (CHARTS); HISTORY;
 MANUFACTURERS; TABLES (DATA); SALES
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096 \$2.50

<442>
 Walli, R.F.; Sackus, G.A.
 Dartmouth College, Thayer School of Engineering
 ADDRESS: Hanover, NH 03755
 TITLE: Evaluating the National Energy Plan

Technology Review, 79(8), 51-56
 1977, July/August
 KEYWORDS: NATIONAL ENERGY PLAN; ENERGY POLICY;
 ENERGY MODELS; ENERGY CONSERVATION;
 PETROLEUM; NATURAL GAS; COAL; PRICES;
 FORECASTING; ENERGY DEMAND; IMPORTS;
 PRODUCTION; COMPARATIVE EVALUATIONS;
 GOVERNMENT POLICIES; OPEC; ENERGY CONSUMPTION

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National Academy of Sciences, National Research Council, Assembly of Engineering, Energy Engineering Board, Committee on Advanced Energy Storage Systems
ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418
TITLE: Development Schedules for Vehicle Energy Storage Systems

19 p.
1977

SPONSOR: Energy Research and Development Administration
KEYWORDS: ELECTRIC VEHICLES; DEVELOPMENT; TRANSPORTATION; LEGISLATION; ENERGY STORAGE; BATTERIES; FLYWHEELS; FORECASTING; HYBRID ELECTRIC-POWERED VEHICLES

<444>

National Academy of Sciences, National Research Council, Assembly of Life Sciences, Committee on Toxicology
ADDRESS: Washington, DC
TITLE: Fuels and Fuel Additives for Highway Vehicles and Their Combustion Products: A Guide to Evaluation of Their Potential Effects on Health

49 p.
1976

SPONSOR: U.S. Environmental Protection Agency
KEYWORDS: HIGHWAY TRANSPORTATION; MOTOR VEHICLES; FUELS; FUEL ADDITIVES; AUTOMOTIVE EMISSIONS; HEALTH HAZARDS; TOXICITY; POLLUTION REGULATIONS; STANDARDS; TESTING
AVAILABILITY: National Academy of Sciences, 2101 Constitution Avenue, Washington, DC 20418

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National Academy of Sciences, National Research Council, Highway Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418
TITLE: Travel Behavior

Highway Research Record No. 446, papers presented at the Fifty-Second Annual Meeting of the Highway Research Board, 66 p.

1973

KEYWORDS: TRAVEL; BEHAVIOR; URBAN TRANSPORTATION; DEMAND (ECONOMICS); INTERCITY TRANSPORTATION; MODELS; CHICAGO
AVAILABILITY: \$2.20

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National Academy of Sciences, National Research Council, Highway Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418
TITLE: Transportation Forecasting

Highway Research Record No. 472, papers presented at the Fifty-Second Annual Meeting of the Highway Research Board, 120 p.

1973

KEYWORDS: TRANSPORTATION; FORECASTING; PLANNING; URBAN TRANSPORTATION; RECREATION; MODELS; AUTOMOBILES; OWNERS; REGIONAL ANALYSIS; AIR TRANSPORTATION; PASSENGER TRANSPORTATION; TRAVEL; DEMAND (ECONOMICS); SURVEYS; GRAPHS (CHARTS)
AVAILABILITY: \$3.80

<447>

National Academy of Sciences, National Research Council, Highway Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington, DC 20418
TITLE: Highway and Urban Transportation in the 1970's and 1980's

Special Report 122, a panel discussion at the plenary session of the 50th Annual Meeting of the Highway Research Board, January 19, 1971, 23 p.

1971

KEYWORDS: HIGHWAY TRANSPORTATION; URBAN TRANSPORTATION; FORECASTING; SOCIO-ECONOMIC FACTORS; FUNDING; TECHNOLOGY; HOUSING

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National Academy of Sciences, National Research Council, Highway Research Board
ADDRESS: 2101 Constitution Ave., NW, Washington, DC 20418
TITLE: Highway Capacity Manual: 1965

HRB Special Report 87, 411 p.
1976, September

KEYWORDS: HIGHWAYS; DESIGN; TRAFFIC CONTROL; TRAFFIC; VELOCITY; CAPACITY; PEAK-HOUR DEMAND; HIGHWAY TRANSPORTATION; RURAL AREAS; URBAN AREAS; BUSES (VEHICLES); DELAYS; DAILY VARIATIONS; TABLES (DATA); PHOTOGRAPHS; OPTIMIZATION; GRAPHS (CHARTS); CONSTRUCTION
AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$8.00

<449>

National Academy of Sciences, National Research Council, Highway Research Board, Advisory Committee on Movement of Goods in Urban Areas
ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418
TITLE: Urban Commodity Flow

Highway Research Board Special Report No. 120, report of a conference held December 6-9, 1970, 207 p.

1971

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary; Canadian Ministry of Transport
KEYWORDS: URBAN TRANSPORTATION; PLANNING; CARGO TRANSPORTATION; TRUCKS; INTERCITY TRANSPORTATION; INTRACITY TRANSPORTATION; COSTS; GOVERNMENT POLICIES; FORECASTING; TRAFFIC; LABOR RELATIONS; TONNAGE; TABLES (DATA)
AVAILABILITY: \$6.00

<450>

National Academy of Sciences, National Research Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418
TITLE: New Approaches to Travel Forecasting

Transportation Research Record 569, papers prepared for the 54th Annual Meeting of the Transportation Research Board, 157 p.

1976

KEYWORDS: TRAVEL; FORECASTING; CONFERENCES; TRAFFIC; PLANNING; BEHAVIOR; AUTOMOBILES; OWNERS; URBAN TRANSPORTATION; MODELS; SHOPPING; RECREATION; COMMUTING; INTERCITY TRANSPORTATION; DEMAND (ECONOMICS); GRAPHS (CHARTS)
AVAILABILITY: \$6.00

<451>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Freight Transportation Characteristics
Transportation Research Record 591, 53 p.
1976
KEYWORDS: CARGO TRANSPORTATION; PLANNING; DEMAND
(ECONOMICS); URBAN TRANSPORTATION; RAIL
TRANSPORTATION; INTERNATIONAL TRADE; TRUCKS
AVAILABILITY: \$2.60

<452>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Air Travel and Aviation Facilities Planning
Transportation Research Record 529, papers
presented at the 54th Annual Meeting of the
Transportation Research Board, 43 p.
1975
KEYWORDS: AIR TRANSPORTATION; AIRPORTS;
ENVIRONMENTAL IMPACT; LAND USE; NOISE
POLLUTION; WATER POLLUTION; AIR POLLUTION;
SOLID WASTES; ECONOMICS; NEW YORK CITY;
SOCIAL IMPACT ASSESSMENT; DEMAND (ECONOMICS);
COSTS; GRAPHS (CHARTS); PLANNING; MODELS
AVAILABILITY: \$2.00

<453>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Travel Behavior and Values
Transportation Research Record 534, papers
presented at the 54th Annual Meeting of the
Transportation Research Board, 75 p.
1975
KEYWORDS: TRAVEL; BEHAVIOR; FORECASTING; URBAN
TRANSPORTATION; SOCIO-ECONOMIC FACTORS;
MATHEMATICAL MODELS; TABLES (DATA); GRAPHS
(CHARTS); VALUES
AVAILABILITY: \$3.20

<454>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: The Bicycle as a Transportation Mode
Transportation Research Record 570, 3 reports
prepared for the 53rd Annual Meeting and 6
reports prepared for the 54th Annual Meeting
of the Transportation Research Board, 45 p.
1976
KEYWORDS: BICYCLES; TRANSPORTATION; LEGISLATION;
PLANNING; DESIGN; DEVELOPMENT; URBAN
TRANSPORTATION; SAFETY; BIKEWAYS; TABLES
(DATA); SIMULATION; MODELS

<455>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Planning and Programming for Transportation

<451>
Transportation Research Record 574, papers
presented at the 54th Annual Meeting of the
Transportation Research Board, 56 p.
1976
KEYWORDS: PLANNING; TRAVEL; TRANSPORTATION; URBAN
TRANSPORTATION; LOS ANGELES; REGIONAL
ANALYSIS; MODELS; SAIGON (VIETNAM); PUBLIC
TRANSPORTATION; GRAPHS (CHARTS); TABLES (DATA)
AVAILABILITY: \$2.60

<456>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Transportation Characteristics of Track,
Rail, and Water Freight

Report No. PB-256000, Transportation Research
Record No. 577, papers presented at the 54th
Annual Meeting of the Transportation Research
Board, 51 p.
1976
KEYWORDS: TRANSPORTATION; TRUCKS; RAIL
TRANSPORTATION; WATER TRANSPORTATION; BARGES;
INLAND WATERWAYS; CARGO TRANSPORTATION;
TABLES (DATA); GRAPHS (CHARTS); COMMODITIES;
FORECASTING; RAILROADS; WISCONSIN; STATE
GOVERNMENT; COMPUTERIZED SIMULATION; RAILROAD
CARS; PLANNING
AVAILABILITY: Transportation Research Board
\$2.20; NTIS

<457>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington,
DC 20418
TITLE: Intercity Freight Movement by Rail and
Highway

Transportation Research Record 511, papers
presented at the Fifty-Third Annual Meeting
of the Highway Research Board, ISBF
0-309-02355-6, 44 p.
1974
KEYWORDS: CARGO TRANSPORTATION; INTERCITY
TRANSPORTATION; RAIL TRANSPORTATION; HIGHWAY
TRANSPORTATION; MARKET; URBAN TRANSPORTATION;
PLANNING; STATE GOVERNMENT; WISCONSIN
AVAILABILITY: \$2.20

<458>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Travel Demand Forecasting

Transportation Research Record 526, papers
presented at the Fifty-Third Annual Meeting
of the Highway Research Board, 105 p.
1974
KEYWORDS: TRAVEL; DEMAND (ECONOMICS);
FORECASTING; AIR TRANSPORTATION; URBAN
TRANSPORTATION; PLANNING; BEHAVIOR;
TRANSPORTATION; PASSENGER TRANSPORTATION;
MODELS; INTERCITY TRANSPORTATION
AVAILABILITY: \$4.40

<459>
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington, DC

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<459> CONT.

TITLE: Social, Economic, and Environmental Implications in Transportation Planning

Transportation Research Record 583, papers prepared for the 54th Annual Meeting of the Transportation Research Board, 95 p.

1976

KEYWORDS: SOCIAL IMPACT; ECONOMIC IMPACT; SOCIO-ECONOMIC FACTORS; ENVIRONMENTAL IMPACT; TRANSPORTATION; PLANNING; GOVERNMENT POLICIES; TRAVEL; BEHAVIOR; MASSACHUSETTS; ENVIRONMENTAL IMPACT STATEMENTS; ECONOMICS; AUTOMOBILES; OWNERSHIP; NORTH CAROLINA; URBAN AREAS; LOCAL GOVERNMENT; STATE ANALYSIS
AVAILABILITY: \$8.00

<460>

National Academy of Sciences, National Research Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington, DC 20418

TITLE: Transit Planning

Transportation Research Record 559, papers prepared for the 54th Annual Meeting of the Transportation Research Board, 132 p.

1976

KEYWORDS: PLANNING; TAXICABS; RAPID TRANSIT SYSTEMS; TRANSPORTATION SYSTEMS; PASSENGER TRANSPORTATION; BUSES (VEHICLES); COMMUTING; URBAN TRANSPORTATION; COMPARATIVE EVALUATIONS; BEHAVIOR; COSTS; TRANSPORTATION DISADVANTAGED; TABLES (DATA); GRAPHS (CHARTS); RURAL AREAS; MOBILITY
AVAILABILITY: \$10.00

<461>

National Academy of Sciences, National Research Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington, DC 20418

TITLE: Public Transportation Planning

Transportation Research Record 563, papers prepared for the 54th Annual Meeting of the Transportation Research Board, 96 p.

1976

KEYWORDS: PUBLIC TRANSPORTATION; PLANNING; URBAN TRANSPORTATION; STATE GOVERNMENT; LEGISLATION; CONSUMERS; ATTITUDES; ATLANTA; DIAL-A-RIDE; BUSES (VEHICLES); LOCAL GOVERNMENT; TABLES (DATA); GRAPHS (CHARTS); CALIFORNIA; BAY AREA RAPID TRANSIT SYSTEM; PARK-AND-RIDE; TRANSPORTATION DISADVANTAGED; INDIANA; STATE ANALYSIS
AVAILABILITY: \$8.00

<462>

National Academy of Sciences, National Research Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington, DC 20418

TITLE: Regional Bus Transportation

Transportation Research Record 546, papers prepared for the 54th Annual Meeting of the Transportation Research Board, 63 p.

1975

KEYWORDS: REGIONAL ANALYSIS; BUSES (VEHICLES); PUBLIC TRANSPORTATION; RIGHT-OF-WAY; RAPID TRANSIT SYSTEMS; CAPACITY; PLANNING; LOS ANGELES; PASSENGER TRANSPORTATION; LOCAL GOVERNMENT; URBAN TRANSPORTATION; HIGHWAYS; TRAFFIC CONTROL
AVAILABILITY: \$2.60

<463>

National Academy of Sciences, National Research Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue NW, Washington, DC 20418

TITLE: Rail Transit Development

Transportation Research Record 552, papers prepared for the 54th Annual Meeting of the Transportation Research Board, 57 p.

1975

KEYWORDS: RAIL TRANSPORTATION; URBAN TRANSPORTATION; PUBLIC TRANSPORTATION; BAY AREA RAPID TRANSIT SYSTEM; ENERGY CONSUMPTION; TRANSPORTATION SYSTEMS; RAPID TRANSIT SYSTEMS; ECONOMICS; TABLES (DATA); GRAPHS (CHARTS); EUROPE; REGIONAL ANALYSIS
AVAILABILITY: \$2.60

<464>

National Academy of Sciences, National Research Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington, DC 20418

TITLE: Energy Effects, Efficiencies, and Prospects for Various Modes of Transportation

National Cooperative Highway Research Program Synthesis of Highway Practice 43, 63 p.

1977

SPONSOR: American Association of State Highway and Transportation Officials; U.S. Dept. of Transportation, Federal Highway Administration

KEYWORDS: ENERGY CONSUMPTION; EFFICIENCY; FORECASTING; TRANSPORTATION; PLANNING; COMPARATIVE EVALUATIONS; PASSENGER TRANSPORTATION; CARGO TRANSPORTATION; ENERGY CONSERVATION; AUTOMOBILES; BUSES (VEHICLES); GRAPHS (CHARTS); TABLES (DATA); RAIL TRANSPORTATION; AIR TRANSPORTATION; BICYCLES; WATER TRANSPORTATION; HIGHWAY TRANSPORTATION; PIPELINES; SLURRY PIPELINES
AVAILABILITY: \$8.00

<465>

National Academy of Sciences, National Research Council, Transportation Research Board, Commission on Sociotechnical Systems
ADDRESS: Washington, DC

TITLE: Scope and Plan for a Study of Transportation Energy Research Needs and Priorities. A Report to the Energy Research and Development Administration

17 p.

1976

SPONSOR: Energy Research and Development Administration

KEYWORDS: PLANNING; TRANSPORTATION; RESEARCH; US ERDA; ENERGY DEMAND; ENERGY SUPPLIES; ENERGY RESOURCES; FORECASTING; ENERGY CONSERVATION; DEMAND (ECONOMICS); GOVERNMENT POLICIES; SOCIO-ECONOMIC FACTORS

AVAILABILITY: National Academy of Sciences, 2101 Constitution Ave., Washington, DC 20418

<466>

National Aeronautics and Space Administration, Lewis Research Center
ADDRESS: Cleveland, OH 44135

TITLE: State-Of-The-Art Assessment of Electric and Hybrid Vehicles

Report No. NCP/N1011-01, v.p.
1978, January

<466> CONT.
 SPONSOR: U.S. Dept. of Energy, Division of
 Transportation Energy Conservation
 KEYWORDS: ELECTRIC VEHICLES; HYBRID
 ELECTRIC-POWERED VEHICLES; EQUIPMENT;
 TESTING; TABLES (DATA); BATTERIES; SURVEYS;
 PERFORMANCE; ELECTRIC VEHICLE RANGE; ENERGY
 CONSUMPTION; RELIABILITY
 AVAILABILITY: NTIS

<467>
 National Aeronautics and Space Administration,
 Lewis Research Center
 ADDRESS: Cleveland, OH
 TITLE: Twelve State-of-the-Art Individual
 Electric and Hybrid Vehicle Test Reports.
 Volume I

Report No. HCP/M1011-03/1, v.p.
 1978, July
 SPONSOR: U.S. Dept. of Energy, Division of
 Transportation Energy Conservation
 KEYWORDS: ELECTRIC VEHICLES; HYBRID
 ELECTRIC-POWERED VEHICLES; TESTING; DRIVING
 CYCLE; ENERGY CONSUMPTION; PERFORMANCE;
 DESIGN; BATTERIES; TABLES (DATA); GRAPHS
 (CHARTS); MANUFACTURERS
 AVAILABILITY: NTIS

<468>
 National Association State Directors of Pupil
 Transportation Services
 TITLE: 1975-76 Statistics on Pupil Transportation
 3 p.
 KEYWORDS: STATE ANALYSIS; EXPENDITURES; BUSES
 (VEHICLES); STATISTICS; OWNERSHIP; SCHOOLS;
 CHILDREN

<469>
 National Petroleum Council
 TITLE: Potential for Energy Conservation in the
 United States: 1979-1985

204 p.
 1975, August 6
 SPONSOR: U.S. Dept. of Interior
 KEYWORDS: ENERGY CONSERVATION; INDUSTRIAL SECTOR;
 TRANSPORTATION; COMMERCIAL SECTOR;
 RESIDENTIAL SECTOR; ELECTRIC UTILITIES;
 TABLES (DATA); FORECASTING; HEAT PUMPS;
 APPLIANCES; SOLAR ENERGY; AUTOMOBILES; FUEL
 CONSUMPTION; EMISSIONS; DESIGN; REGULATIONS;
 TECHNOLOGY

<470>
 National Petroleum News
 ADDRESS: 1221 Ave. of the Americas, New York, NY
 10020
 TITLE: 1978 National Petroleum News Factbook Issue

National Petroleum News, 70(6A), 209 p.
 1978, Mid-June
 KEYWORDS: AIR TRANSPORTATION; STATE ANALYSIS;
 FINANCIAL DATA; TIRES; BATTERIES;
 DIRECTORIES; FUEL OIL; MILEAGE; GAS STATIONS;
 AVIATION FUELS; AUTOMOBILES; MARKETING;
 TRUCKS; AUTOMOBILE DRIVERS; CAPITAL COSTS;
 ENERGY DEMAND; AIR POLLUTION; ADVERTISING;
 GASOLINE; PETROLEUM; UNLEADED AUTOMOTIVE FUELS

<471>
 Nelson, P.A.; Chlenskas, A.A.; Steunenberg, R.K.
 Argonne National Laboratory, Chemical Engineering
 Division
 ADDRESS: 9700 South Cass Avenue, Argonne, IL
 60439
 TITLE: The Need for Development of High-Energy
 Batteries for Electric Automobiles

Report No. AVL-8075, 24 p.
 1974, November
 SPONSOR: U.S. Atomic Energy Commission
 KEYWORDS: BATTERIES; AIR POLLUTION; FORECASTING;
 LITHIUM-SULFUR BATTERIES; ELECTRIC VEHICLES;
 ECONOMIC ANALYSIS; COMPARATIVE EVALUATIONS
 AVAILABILITY: NTIS

<472>
 Nevev, A.J.
 New York State Dept. of Transportation, Planning
 Division
 ADDRESS: State Campus, Albany, NY 12232
 TITLE: Public Opinion Survey on Energy and
 Transportation

Preliminary Research Report No. 135, 47 p.
 1977, December
 SPONSOR: U.S. Dept. of Transportation
 KEYWORDS: SURVEYS; NEW YORK; ENERGY CONSERVATION;
 TRANSPORTATION; REGIONAL ANALYSIS; AGE
 GROUPS; SEX; ENERGY POLICY; PUBLIC OPINION;
 MASS TRANSPORTATION; INCENTIVES;
 TRANSPORTATION DISADVANTAGED; QUESTIONNAIRES;
 GASOLINE; FUEL CONSUMPTION

<473>
 Niccoletti, W.
 Federal Energy Administration, Office of Energy
 Information and Analysis, Consumption Studies
 Division
 ADDRESS: 12th and Pennsylvania Avenue NW, Old
 Post Office Building, Room 306, Washington,
 DC 20461
 TITLE: Lifestyles and Household Energy Use: 1973
 and 1975 National Surveys, Code Book and
 Processing Guide

Report No. PB-272449, FEA/DF-77/001A, 233 p.
 1977, September
 KEYWORDS: SURVEYS; RESIDENTIAL SECTOR; ENERGY
 CONSUMPTION; COSTS; ELECTRIC POWER DEMAND;
 NATURAL GAS; FUEL OIL; SPACE HEATING; AIR
 CONDITIONING; WATER HEATERS; LIFE STYLE;
 AUTOMOBILES; APPLIANCES; TABLES (DATA);
 REGIONAL ANALYSIS; COSTS; POPULATION
 (STATISTICS); OWNERS; ATTITUDES; ENERGY
 CONSERVATION
 AVAILABILITY: NTIS

<474>
 Nichols, H.W.
 National Petroleum Council
 ADDRESS: Washington, DC
 TITLE: Balancing Requirements for World Oil and
 Energy

Chemical Engineering Progress, 70(10), 36-48
 1974, October
 KEYWORDS: ENERGY DEMAND; PETROLEUM; ENERGY
 SUPPLIES; IMPORTS; ENERGY RESOURCES;
 PRODUCTION; TABLES (DATA); GROWTH;
 INTERNATIONAL TRADE; FOSSIL FUELS; SYNTHETIC
 FUELS; COAL; GOVERNMENT POLICIES;
 FORECASTING; ENERGY CONSUMPTION

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<475>

Nicolaides, G.C.; Hurawski, C.A.
General Motors Corp., Research Laboratories
ADDRESS: Warren, MI 48090
TITLE: Analysis of Preference for Mixed-Mode Transit

Reprint from Traffic Quarterly, July 1977,
472-496; also available as Research
Publication No. GMR-2255
1977, July

KEYWORDS: ATTITUDES; URBAN TRANSPORTATION;
COMMUTING; MODELS; TABLES (DATA); GRAPHS
(CHARTS); TRAVEL TIME; TRAVEL; COSTS;
MIXED-MODE TRANSIT

AVAILABILITY: General Motors Corp., Research
Laboratories, Warren MI 48090 For GMR-2255

<476>

Hoe, L.R. (ed.)
Marketing Handbooks Inc.
ADDRESS: 31 Wallacks Lane, Stamford, CT 06902
TITLE: Travel Market Yearbook: 1976/1977

Annual publication, 128 p.

1976

KEYWORDS: TRAVEL; MARKET; AUTOMOBILES;
INTERNATIONAL ANALYSIS; TOURISM; ADVERTISING;
FORECASTING; TRANSPORTATION; TAXES; AIR
TRANSPORTATION; RAIL TRANSPORTATION;
PASSENGER TRANSPORTATION; BUSES (VEHICLES);
SERVICES; TABLES (DATA)

AVAILABILITY: \$26.00

<477>

Forman, T.A.
U.S. Postal Service
ADDRESS: Washington, DC
TITLE: Electric-Plywheel Vehicle for Postal
Service Applications

Paper No. 780297, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 4 p.

1978

KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; FLYWHEELS;
AUTOMOTIVE FLEETS; ENERGY CONSERVATION;
UTILIZATION; POSTAL SERVICE

AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<478>

North Atlantic Treaty Organization, Committee on
the Challenges of Modern Society
TITLE: Proceedings of the Fourth International
Symposium on Automotive Propulsion Systems.
Volumes I and II

Report No. CONF-770430/1, symposium held in
Washington, DC, April 18-22, 1977, 1034 p.
1978, February

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: CONFERENCES; PROPULSION; AUTOMOBILES;
GAS TURBINES; AUTOMOTIVE FUELS; FUELS; DIESEL
ENGINES; STIRLING ENGINES; RANKINE CYCLE
ENGINES; ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; STRATIFIED CHARGE
ENGINES; SPARK IGNITION ENGINES; AUTOMOTIVE
EMISSIONS; POWER TRAIN SYSTEMS
AVAILABILITY: NTIS (when available)

<479>

Northwestern University, Transportation Center
Library
ADDRESS: Evanston, IL 11973
TITLE: Bibliography for Transportation Energy
Conservation

Report No. ANL-76-XX-7, 64 p.
1976, May

SPONSOR: Argonne National Laboratory
KEYWORDS: BIBLIOGRAPHIES; TRANSPORTATION;
AUTOMOBILES; MASS TRANSPORTATION; AIRCRAFT;
TRUCKS; RAILROADS; BARGES; SHIPS; MARINE
TRANSPORTATION; RAIL TRANSPORTATION; AIR
TRANSPORTATION; PIPELINE TRANSPORTATION;
ENERGY CONSERVATION
AVAILABILITY: NTIS

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Obinani, P.C.
Tri-State Regional Planning Commission
ADDRESS: New York, NY
TITLE: Analysis of User Response to the 1975 New
York City Transit-Fare Increase (Abridgment)

Paper published in Transportation Research Record
625, 12-14

1977

SPONSOR: U.S. Dept. of Transportation, Federal
Highway Administration; U.S. Dept. of
Transportation, Urban Mass Transportation
Administration; U.S. Dept. of Housing and
Urban Development

KEYWORDS: NEW YORK CITY; TRANSPORTATION SYSTEMS;
PASSENGER TRANSPORTATION; COSTS; MOBILITY;
SURVEYS; TABLES (DATA); ATTITUDES

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.20 for Transportation Research Record 625

<481>

Odonol, A.R.; Kivestu, P.
Massachusetts Institute of Technology, Flight
Transportation Laboratory
ADDRESS: Cambridge, MA 02139
TITLE: A Handbook for the Estimation of Airside
Delays at Major Airports (Quick Approximation
Method)

Report No. NASA CR-2644, 81 p.
1976, June

SPONSOR: National Aeronautics and Space
Administration, Langley Research Center
KEYWORDS: HANDBOOKS; AIRPORTS; DELAYS; COMPUTER
PROGRAMS; GRAPHS (CHARTS); OPERATION;
CAPACITY; PEAK-HOUR DEMAND; TRAFFIC CONTROL
AVAILABILITY: NTIS

<482>

Odum, E.P.; Bramlett, G.A.; Ike, A.; Champlin,
R.; Ziemann, J.C.; Shugart, H.H.
Georgia, University of, Institute of Ecology;
Georgia, University of, Institute of
Community and Area Development
TITLE: Totality Indexes for Evaluating
Environmental Impacts of Highway Alternatives

Report presented at the 54th Annual Meeting of
the Transportation Research Board, published
in "Transportation Energy Conservation,"
Transportation Research Record 561, 57-67
1976

KEYWORDS: ENVIRONMENTAL IMPACT; HIGHWAYS;
CONSTRUCTION; GEORGIA; PLANNING; STATE
GOVERNMENT; GOVERNMENT POLICIES; PUBLIC
OPINION

<482> CONT.
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave NW, Washington, DC 20418
 \$5.00 for Transportation Research Record 561

Oil and Gas Journal, 75(31), 51-54
 1977, August 1
 KEYWORDS: COAL; COAL GASIFICATION; ALTERNATE
 FUELS; LOW BTU GAS; U-GAS PROCESS; DIAGRAMS;
 FUEL OIL; NATURAL GAS; TABLES (DATA); ASHES;
 PILOT PLANTS; DEMONSTRATION PLANTS

<487>
 Olson, P.J.; Westley, G.W.
 Oak Ridge National Laboratory, Energy Division,
 Regional and Urban Studies Section; Oak Ridge
 National Laboratory, Computer Sciences
 Division
 ADDRESS: Oak Ridge, TN 37830
 TITLE: Synthetic Measures of Truck Operating
 Times Between the Metropolitan Centers of BEA
 Economic Areas: 1950, 1960, and 1970, with
 Projections for 1980

<487>
 Paul, F.W.; Negreanw, M.J.
 Carnegie-Mellon University, Mechanical
 Engineering Dept.
 ADDRESS: Pittsburgh, PA
 TITLE: Applied Studies in Advanced Boiler
 Technology for Rankine Cycle Power Systems

Report No. ORNL-NSP-EP-78, 76 p.
 1975, January
 SPONSOR: National Science Foundation, BANN Program
 KEYWORDS: TRUCKS; URBAN AREAS; REGIONAL ANALYSIS;
 TRANSPORTATION; DISTANCE; VELOCITY; HIGHWAYS;
 TABLES (DATA); HISTORY; FORECASTING;
 INTERSTATE TRANSPORTATION; TRAVEL TIME;
 MARKET; GROWTH

Report No. COO/2633-3, v.p.
 1978, February
 SPONSOR: U.S. Dept. of Energy, Division of
 Transportation Energy Conservation
 KEYWORDS: BOILERS; RANKINE CYCLE POWER SYSTEMS;
 DESIGN; COMPARATIVE EVALUATIONS; TESTING;
 VAPOR GENERATORS; MODELS; SIMULATION; DIAGRAMS
 AVAILABILITY: NTIS

<484>
 Opinion Research Corp.
 ADDRESS: North Harrison Street, Princeton, NJ
 08540
 TITLE: Driving and Energy Conservation.
 Highlight Report. Volume III

<488>
 Peffley, R.K.; Browning, L.R.; McCormack, M.C.;
 Hornberger, H.L.; Likos, W.E.; Pullman, B.
 Santa Clara University, Dept. of Mechanical
 Engineering
 ADDRESS: Santa Clara, CA 95053
 TITLE: Characterization and Research
 Investigation of Methanol and Methyl Fuels

Report No. PE-261162, FEA/D-76/883, 28 p.
 1976, March
 SPONSOR: Federal Energy Administration, Office of
 Energy Conservation and Environment
 KEYWORDS: ENERGY CONSERVATION; COMMUTING;
 SURVEYS; BEHAVIOR; AUTOMOBILE DRIVERS;
 REGIONAL ANALYSIS; ATTITUDES; ENERGY
 CONSUMPTION; CARPOOLING; GASOLINE; FUEL
 ECONOMY
 AVAILABILITY: NTIS

Report No. COO-1258-1, M.E. 77-1, 108 p.
 1977, August
 SPONSOR: U.S. Environmental Protection Agency,
 Motor Vehicle Emission Laboratory; Energy
 Research and Development Administration,
 Division of Transportation Energy Conservation
 KEYWORDS: ALTERNATE FUELS; METHANOL; COMPARATIVE
 EVALUATIONS; EMISSIONS; EFFICIENCY; FUEL
 ECONOMY; GASOLINE; PERFORMANCE; COMPUTERIZED
 SIMULATION; GRAPHS (CHARTS); TABLES (DATA);
 TESTING
 AVAILABILITY: NTIS

<485>
 Ossenbruggen, P.J.; Fishan, H.H.
 New Hampshire, University of, College of
 Engineering and Physical Sciences; Peasey
 (J.C.) Co. Inc., Real Estate Dept.
 ADDRESS: UNH, Durham, NH; JCPC, New York, NY
 TITLE: Impact of Transit Line Extension on
 Residential Land Use

<489>
 Penner, P.S.
 Illinois, University of, Center for Advanced
 Computation
 ADDRESS: Urbana, IL 61801
 TITLE: The Dollar, Energy and Labor Intensity of
 an Electric Computer Railroad

Paper published in Transportation Research Record
 627, 10-13
 1977
 SPONSOR: U.S. Dept. of Transportation, Urban Mass
 Transportation Administration
 KEYWORDS: LAND USE; RESIDENTIAL SECTOR; RAPID
 TRANSIT SYSTEMS; TRANSPORTATION; REGULATIONS;
 LAND DEVELOPMENT
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$2.70 for Transportation Research Record 627

CAC Technical Memorandum No. 24, 13 p.
 1974, September
 KEYWORDS: LABOR INTENSITY; TRANSPORTATION
 SYSTEMS; RAIL TRANSPORTATION; ENERGY
 CONSUMPTION; FINANCIAL DATA; LOAD FACTOR;
 VEHICLE MILES TRAVELED; PASSENGER
 TRANSPORTATION; INTERSTATE TRANSPORTATION;
 ELECTRIC RAIL SYSTEMS

<486>
 Patel, J.G.
 Institute of Gas Technology
 ADDRESS: Chicago, IL
 TITLE: Clean Fuel from Coal Is Goal of U-Gas
 Process

<490>
 Permut, H.; Vuchic, V.R.
 Chicago Regional Transportation Authority;
 Pennsylvania, University of, Dept. of
 Engineering
 ADDRESS: CRTA, Chicago, IL; UP, Philadelphia, PA
 TITLE: Evaluation of Alternative Station Spacings
 for Rapid Transit Lines (Abridgment)
 (Discussion)

Paper published in Transportation Research Record

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627, 13-17 (Discussion p. 16)

1977

SPONSOR: National Academy of Sciences,
Transportation Research Board
KEYWORDS: TRANSIT STATIONS; RAPID TRANSIT
SYSTEMS; SITE SELECTION; CHICAGO; COMPARATIVE
EVALUATIONS

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.20 for Transportation Research Record 627

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Petracek, S.J.
Stanford Research Institute
ADDRESS: Menlo Park, CA 94025
TITLE: Energy Study of Railroad Freight
Transportation. Volume 3: Regulation and
Tariff

SRI Project TCU 5419, 101 p.

1977, August

SPONSOR: Energy Research and Development
Administration

KEYWORDS: REGULATIONS; ENERGY CONSUMPTION;
LEGISLATION; EFFICIENCY; RAIL TRANSPORTATION;
CARGO TRANSPORTATION; GOVERNMENT POLICIES;
ECONOMICS; COSTS

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Petrocelli, A.W.; Kennedy, J.H.
Yardney Electric Corp.
ADDRESS: Pawcatuck, CT
TITLE: The Nickel-Zinc Battery: A Viable
Alternative for Vehicle Powering

Paper presented at the Fourth International
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Electric Vehicle Council and the
International Union of Producers and
Distributors of Electrical Energy), held in
Dusseldorf, Germany, August 31 - September 2,
1976, 28 p.

1976, September

KEYWORDS: NICKEL-ZINC BATTERIES; ELECTRIC
VEHICLES; RESEARCH; PERFORMANCE; MODELS;
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GRAPHS (CHARTS)

AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

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Petroleum Publishing Co.
ADDRESS: 1821 S. Sheridan Road, Tulsa, OK 74101
TITLE: Petroleum/2000

Oil and Gas Journal, 75(35), 75th Anniversary
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1977, August

KEYWORDS: PETROLEUM; FORECASTING; EXPLORATION;
PRODUCTION; PIPELINES; NATURAL GAS LIQUIDS;
REFINING; PETROLEUM REFINING; PETROCHEMICALS;
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FUELS; GRAPHS (CHARTS); HISTORY; LIQUEFIED
NATURAL GAS; INTERNATIONAL RELATIONS

AVAILABILITY: \$6.00

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Phoebe, C.H.
Gulf Research and Development Co.
ADDRESS: Pittsburgh, PA 15230
TITLE: Passenger Car Fuel Economy in Short Trip
Operation. Technical Progress Report for

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Report No. COO/4248-1, 23 p.

1977, November

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: FUEL ECONOMY; GASOLINE; HYDROGEN;
METHANOL; FUEL INJECTION SYSTEMS; STIRLING
ENGINES; GAS ENGINES; AUTOMOBILES;
COMPARATIVE EVALUATIONS; DRIVING CYCLE;
HIGHWAY TRANSPORTATION; ENERGY STORAGE;
VEHICLE TRIPS; TESTING; FUEL CONSUMPTION;
VEHICLE MILES TRAVELED; PHOTOGRAPHS;
AUTOMOBILE OCCUPANCY

AVAILABILITY: NTIS

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Pigman, J.G.; Agent, K.R.; Hayes, J.G.; Zegeer,
C.V.
Kentucky Dept. of Transportation, Bureau of
Highways

TITLE: Optimal Highway Safety Improvement
Investments by Dynamic Programming

Report presented at the 58th Annual Meeting of
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in Transportation Research Record 585, 89-59
1976

KEYWORDS: HIGHWAYS; SAFETY; PLANNING; MANAGEMENT;
INVESTMENTS; OPTIMIZATION

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.60 for Transportation Research Record 585

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Pipeline and Underground Utilities Construction
ADDRESS: 3314 Mercer St., Houston, TX 77027
TITLE: Pipeline and Underground Utilities
Construction: Annual Contractors Issue 1978

Pipeline and Underground Utilities Construction,
33(7), v.p.

1978, June 15

KEYWORDS: CONSTRUCTION; EQUIPMENT; COMPRESSORS;
MANUFACTURERS; UTILITIES; ENERGY TRANSPORT;
SERVICES; ENGINEERING; USA; INTERNATIONAL
ORGANIZATIONS; UNDERGROUND FACILITIES; WATER
PIPELINES; PIPELINES; EXCAVATION

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ADDRESS: 380 Madison Ave., New York, NY 10017
TITLE: Motorcamping Handbook 1977

136 p.

1977, Spring

KEYWORDS: CAMPERS; RECREATION VEHICLES; MOTOR
HOMES; TRUCKS; TRAVEL; EQUIPMENT; SIZE; PRICES

AVAILABILITY: \$1.50

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Pouliot, H.W.; Robinson, C.W.; Delameter, W.R.
Sandia Laboratories
ADDRESS: Livermore, CA
TITLE: A Variable-Displacement Spark-Ignition
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Final Report, Report No. SAND 77-8299, 108 p.
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SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: SPARK IGNITION ENGINES; VARIABLE
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 AVAILABILITY: GPO, Stock No. 061-000-00108-5

TITLE: The Potential for Transit as an Energy Saving Option

1975, November

SPONSOR: Federal Energy Administration
 KEYWORDS: PUBLIC TRANSPORTATION; URBAN TRANSPORTATION; ENERGY CONSUMPTION; ENERGY CONSERVATION; VEHICLE MILES TRAVELED; AUTOMOBILES; REGIONAL ANALYSIS; PASSENGER TRANSPORTATION; GRAPHS (CHARTS); TABLES (DATA); MODELS; EFFICIENCY; BALTIMORE (MARYLAND); CHICAGO; SAN DIEGO; ALBUQUERQUE; SOCIO-ECONOMIC FACTORS; MASS TRANSPORTATION; GOVERNMENT POLICIES; BUSES (VEHICLES); RAIL TRANSPORTATION; STATE ANALYSIS

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Powel, S.F., III; Rosenberg, M.
 U.S. Dept. of Transportation, Transportation Systems Center
 ADDRESS: Kendall Square, Cambridge, MA 02142
 TITLE: The Advisability of Regulating Electric Vehicles for Energy Conservation

Report No. PB-260667, DOT-TSC-OST-76-37, v.p. 1976, August

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Systems Development and Technology, Office of Systems Engineering
 KEYWORDS: ELECTRIC VEHICLES; BATTERIES; PERFORMANCE; LIFE-CYCLE COST; ENERGY CONSERVATION; GOVERNMENT POLICIES; FUEL CONSUMPTION; EFFICIENCY; TABLES (DATA); GRAPHS (CHARTS); COMPARATIVE EVALUATIONS; ECONOMICS; COSTS; VANS; REGULATIONS; INTERNAL COMBUSTION ENGINES; ENERGY CONSUMPTION; MARKET
 AVAILABILITY: NTIS

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 ADDRESS: Washington, DC
 TITLE: Report of the Presidential Task Force on Reform of Federal Energy Administration Regulations. Volume 1 and Volume 2, Appendices

1976, December

KEYWORDS: REGULATIONS; LEGISLATION; GOVERNMENT POLICIES; HISTORY; PROPANE; NATURAL GAS; FUEL OIL; PETROLEUM INDUSTRY; IMPORTS; ALLOCATIONS; ENERGY SUPPLIES; PETROLEUM; PRICES; COSTS; ENERGY SHORTAGES; REFINING; LEGAL ASPECTS; US FEA; CONSUMERS; TABLES (DATA)

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Powell, J.D.; Hubbard, M.
 Stanford University, Dept. of Aeronautics and Astronautics
 ADDRESS: Stanford, CA 94305
 TITLE: Closed-Loop Control of Internal Combustion Engine Exhaust Emissions

Report No. PB-239850, 63 p. 1974, February

SPONSOR: U.S. Dept. of Transportation, Office of Systems Engineering, University Research Program
 KEYWORDS: AUTOMOTIVE EMISSIONS; INTERNAL COMBUSTION ENGINES; FUEL-AIR RATIO; CONTROL EQUIPMENT; DESIGN; COMPARATIVE EVALUATIONS
 AVAILABILITY: NTIS

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Public Technology Inc.; Urban Consortium for Technology Initiatives, Transportation Task Force
 ADDRESS: 1140 Connecticut Avenue NW, Washington, DC 20036
 TITLE: Transportation Needs Summary

32 p.

1976, September
 SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration; U.S. Dept. of Transportation, Federal Highway Administration
 KEYWORDS: TRANSPORTATION; RESEARCH; ASPHALTS; TRANSPORTATION SYSTEMS; PARATRANSIT; HIGHWAYS; BUSES (VEHICLES); PLANNING; MASS TRANSPORTATION; AIR TRANSPORTATION; TRAFFIC CONTROL

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Pozdena, R.J.
 Stanford Research Institute
 ADDRESS: 333 Ravenswood Avenue, Menlo Park, CA 94025

TITLE: Forecasts of Aircraft Activity by Altitude, World Region, and Aircraft Type

Report No. FAA-AYP-76-18, Forecasts of Worldwide Aviation Activity, 132 p. 1976, November

SPONSOR: U.S. Dept. of Transportation, Federal Aviation Administration, Office of Aviation Policy
 KEYWORDS: FORECASTING; AIRCRAFT; ECONOMETRIC MODELS; REGIONAL ANALYSIS; OPERATING COSTS; INTERNATIONAL TRAVEL; PASSENGER TRANSPORTATION; TABLES (DATA); GROWTH; DATA BASES; STATISTICS; CARGO TRANSPORTATION; HISTORY; MODELS
 AVAILABILITY: NTIS

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Pucher, J.; Rothenberg, J.
 Massachusetts Institute of Technology, Dept. of Urban Studies and Planning
 ADDRESS: Cambridge, MA 02139
 TITLE: Pricing in Urban Transportation: A Survey of Empirical Evidence on the Elasticity of Travel Demand

Report No. MIT 76-014, 133 p.

1976, July

KEYWORDS: URBAN TRANSPORTATION; PRICES; RATES (COSTS); MODELS; ELASTICITY (ECONOMICS); GASOLINE; DEMAND (ECONOMICS); ENERGY CONSERVATION; INCOME; TABLES (DATA); ENERGY CONSUMPTION
 AVAILABILITY: MIT, Center for Transportation Studies, 77 Massachusetts Avenue, Cambridge, MA 02139 \$6.00

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Pratt (R.H.) Associates Inc.
 ADDRESS: 10400 Connecticut Avenue, Kensington, MD 20795

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 Massachusetts Institute of Technology, Dept. of
 Urban Studies and Planning
 ADDRESS: Cambridge, MA 02139
 TITLE: Projections of 1980 Freight Demands for
 Selected Midwestern Railroads

Report No. DOT-TST-76T-40, 130 p.
 1976, September

SPONSOR: U.S. Dept. of Transportation, Office of
 University Research

KEYWORDS: FORECASTING; RAIL TRANSPORTATION;
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 TRANSPORTATION; COSTS; TABLES (DATA); MAPS;
 COMMODITIES; INPUT-OUTPUT ANALYSIS; REGIONAL
 ANALYSIS; HISTORY
 AVAILABILITY: NTIS

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Purdue University, Institute for
 Interdisciplinary Engineering Studies
 ADDRESS: West Lafayette, IN
 TITLE: Opportunity and Risk Assessment of the
 Electric and Hybrid Vehicle Research,
 Development and Demonstration Act of 1976

Report No. HCP/H4250-01 (Previously issued as
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1978, January

SPONSOR: U.S. Dept. of Energy, Division of
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 KEYWORDS: ELECTRIC VEHICLES; HYBRID
 ELECTRIC-POWERED VEHICLES; COMMERCIALIZATION;
 ENERGY DEMAND; COSTS; PERFORMANCE; TABLES
 (DATA); ELECTRIC VEHICLE RANGE;
 TRANSPORTATION; PETROLEUM; ENERGY
 CONSERVATION; TECHNOLOGY ASSESSMENT;
 INSTITUTIONAL FACTORS; SAFETY
 AVAILABILITY: NTIS

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Pushkarev, N.S.; Zupan, J.M.
 Regional Plan Association
 ADDRESS: 235 East 45 Street, New York 10017
 TITLE: Power for the MTA: An Examination of
 Future Ridership, Service, and Electric Power
 Requirements for Metropolitan Transportation
 Authority Facilities

RPA Bulletin 126, 90 p.

1977, June

SPONSOR: New York State Power Authority
 KEYWORDS: NEW YORK CITY; RAIL TRANSPORTATION;
 ELECTRIC POWER DEMAND; EMPLOYMENT; COMMUTERS;
 PUBLIC TRANSPORTATION; URBAN TRANSPORTATION;
 AUTOMOBILES; REGIONAL ANALYSIS; PEAK-HOUR
 DEMAND; ELECTRIC VEHICLES; GRAPHS (CHARTS);
 RAPID TRANSIT SYSTEMS; TABLES (DATA);
 PLANNING; EQUIPMENT; SUBWAYS; AIR
 CONDITIONING; REGENERATIVE BRAKING; MASS
 TRANSPORTATION

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Rabe, P.T.
 Environmental Impact Center Inc.
 ADDRESS: 55 Chapel Street, Newton, MA 02158
 TITLE: Uncertainties in Estimates of Fleet
 Average Fuel Economy: A Statistical
 Evaluation

Report No. DOT-TSC-OST-77-32, 66 p.
 1977, June

SPONSOR: U.S. Dept. of Transportation, Office of
 the Secretary, Office of the Assistant
 Secretary for Systems Development and
 Technology; U.S. Dept. of Transportation,
 Transportation Systems Center

KEYWORDS: AUTOMOTIVE FLEETS; FUEL ECONOMY; FUEL
 CONSUMPTION; TABLES (DATA); STRATIFICATION;
 ESTIMATES; STATISTICAL ANALYSIS; TESTING
 AVAILABILITY: NTIS

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Rabe, P.T.
 Environmental Impact Center Inc.
 ADDRESS: 55 Chapel Street, Newton, MA 02158
 TITLE: Study Design for a Method of Projecting
 Vehicle Miles of Travel

Report No. DOT-TSC-OST-77-25, 56 p.
 1977, August

SPONSOR: U.S. Dept. of Transportation,
 Transportation Systems Center; U.S. Dept. of
 Transportation, Office of the Secretary,
 Office of the Assistant Secretary for Systems
 Development and Technology, Office of Systems
 Engineering

KEYWORDS: VEHICLE MILES TRAVELED; FORECASTING;
 TRAVEL; AUTOMOBILES; MODELS; RESEARCH; DATA
 ACQUISITION; ESTIMATES; COSTS
 AVAILABILITY: NTIS

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Rabe, P.T.
 Environmental Impact Center Inc.
 ADDRESS: 55 Chapel Street, Newton, MA 02158
 TITLE: Dynamic Models of the U.S. Automobile Fleet

Report No. DOT-TSC-OST-77-26, 46 p.
 1977, August

SPONSOR: U.S. Dept. of Transportation,
 Transportation Systems Center; U.S. Dept. of
 Transportation, Office of the Secretary,
 Office of the Assistant Secretary for Systems
 Development and Technology, Office of Systems
 Engineering

KEYWORDS: MODELS; SALES; COMPUTERIZED SIMULATION;
 GASOLINE; PRICES; FORECASTING; DEMAND
 (ECONOMICS); TRANSPORTATION; AUTOMOBILES;
 PRICES; SIZE; OWNERS
 AVAILABILITY: NTIS

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Raschbichler, R.G.
 Scitran
 ADDRESS: Box 5456, Santa Barbara, CA 93108
 TITLE: Technical and Economical Considerations of
 the Use of Self-Supporting Plastic Sandwich
 Constructions in Electrical Vehicles

Report No. N76-14205, NASA-TT-F-16824, 15 p.:
 Translation from Elektrotechnische
 Zeitschrift Ausg. A, 94(11), 679-682
 1975, December

SPONSOR: National Aeronautics and Space
 Administration
 KEYWORDS: ELECTRIC VEHICLES; PLASTICS; ECONOMIC
 ANALYSIS; PRODUCTION; DESIGN
 AVAILABILITY: NTIS

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Rachel, R.
 TITLE: Transportation Policies and Energy
 Conservation

An Issue Report, 71 p.
 1976

KEYWORDS: TRANSPORTATION; ENERGY CONSERVATION;
 GOVERNMENT POLICIES; TRANSPORTATION MODE
 CHOICE; FUEL CONSUMPTION; REGULATIONS;
 HIGHWAY TRANSPORTATION; SERVICES; CARGO

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 TRANSPORTATION; PUBLIC TRANSPORTATION; RAIL
 TRANSPORTATION; URBAN TRANSPORTATION; AIR
 TRANSPORTATION; WATER TRANSPORTATION;
 PIPELINE TRANSPORTATION; ECONOMIC IMPACT;
 EXPENDITURES
 AVAILABILITY: The Conservation Foundation, 1717
 Massachusetts Avenue, N.W., Washington, DC
 20036

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 Recker, W.W.; Golob, T.F.
 California, University of, Institute for
 Transportation Studies; General Motors Corp.,
 Research Laboratories, Transportation and
 Urban Analysis Dept.
 ADDRESS: CN, Irvine, CA; GRCRL, Warren, MI 48090
 TITLE: A Non-Compensatory Model of Transportation
 Behavior Based on Sequential Consideration of
 Attributes

Report No. GMR-2621, 23 p.
 1978, January 10
 KEYWORDS: TRANSPORTATION; MODELS; BEHAVIOR;
 DECISIONS; ATTITUDES; SHOPPING TRIPS; URBAN
 TRANSPORTATION; VEHICLES

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 Recreation Vehicle Industry Association
 ADDRESS: Box 204, 14650 Lee Rd., Chantilly, VA
 22021
 TITLE: RV Financial Facts
 Quarterly publication, approximately 4 p.
 KEYWORDS: FINANCIAL DATA; RECREATION VEHICLES;
 PRODUCTION; SALES; INDUSTRIES; INFORMATION

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 Recreation Vehicle Industry Association
 ADDRESS: P.O. Box 204, 14650 Lee Road, Chantilly,
 VA 22021
 TITLE: Recreation Vehicle Figures, Facts and
 Forecasts: 1961 - 1981

Paper presented at seminar held at the Essex
 House Hotel, New York, NY, on March 31, 1977,
 11 p.
 1977
 SPONSOR: Mitchell, Hutchins Inc.
 KEYWORDS: RECREATION VEHICLES; FORECASTING;
 TRAILERS; CAMPERS; MOTOR HOMES; TABLES
 (DATA); SALES

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 Recreation Vehicle Industry Association,
 Marketing and Public Relations Departments
 ADDRESS: 14650 Lee Road, Chantilly, Va 22020
 TITLE: Facts and Trends 1977: 5th Annual
 Historical Review of Production and Shipments
 of the Recreation Vehicle Industry

Annual publication, 9 p.
 1978
 KEYWORDS: RECREATION; FORECASTING; RECREATION
 VEHICLES; INDUSTRIES; PRICES; PRODUCTION;
 SALES; MARKET; TABLES (DATA); GRAPHS
 (CHARTS); ENERGY DEMAND; MOTOR HOMES;
 TRAILERS; CAMPERS; TRUCKS; REGIONAL ANALYSIS

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 Reed, H.D.; Roos, M.; Wolfe, M.; DiGregorio, R.
 U.S. Dept. of Transportation, Transportation
 Systems Center
 ADDRESS: Randall Square, Cambridge, MA 02142
 TITLE: A Study of the Costs and Benefits
 Associated with AVH

Report No. PB-266293, UMTA-MA-06-0041-77-1,
 DOT-TSC-UMTA-77-5, 256 p.
 1977, February
 SPONSOR: U.S. Dept. of Transportation, Urban Mass
 Transportation Administration, Office of
 Technology Development and Deployment
 KEYWORDS: TRANSPORTATION; TECHNOLOGY; COSTS;
 MAINTENANCE; OPERATING COSTS; BUSES
 (VEHICLES); TAXICABS; BENEFIT COST ANALYSIS;
 TABLES (DATA); GRAPHS (CHARTS); ENERGY
 CONSERVATION; MONITORING; AUTOMATIC VEHICLE
 MONITORING; URBAN TRANSPORTATION; AUTOMOTIVE
 FLEETS
 AVAILABILITY: NTIS

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 Regional Plan Association
 ADDRESS: 235 East 45 Street, New York, NY 10017
 TITLE: Where Transit Works: Urban Densities for
 Public Transportation

Regional Plan News No. 99, 24 p.
 1976, August
 SPONSOR: Tri-State Regional Planning Commission;
 U.S. Dept. of Transportation, Urban Mass
 Transportation Administration; Ford
 Foundation; Rockefeller Foundation
 KEYWORDS: URBAN AREAS; PUBLIC TRANSPORTATION;
 COSTS; BUSES (VEHICLES); RAPID TRANSIT
 SYSTEMS; COMMUTERS; COMMUNITY DEVELOPMENT;
 LAND USE; PHOTOGRAPHS; GRAPHS (CHARTS)

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 Regueiro, J.P.
 John Deere Product Engineering Center
 ADDRESS: Moline, IL 61265
 TITLE: Engine Developments and Agricultural
 Equipment Fuel Consumption Trends

Paper No. 760853, published in SAE SP-411, 1-10
 1976, August
 SPONSOR: Society of Automotive Engineers Inc.,
 Milwaukee Section
 KEYWORDS: FARM EQUIPMENT; TRACTORS; AGRICULTURE;
 DIESEL ENGINES; FUEL CONSUMPTION; DESIGN;
 PRODUCTION; GRAPHS (CHARTS)
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096 for SAE SP-411

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 Reichman, S.
 Hebrew University
 ADDRESS: Jerusalem, Israel
 TITLE: Conceptual Problems in Evaluation of
 Travel Time

Paper published in Transportation Research Record
 587, 24-29
 1976
 SPONSOR: National Academy of Sciences,
 Transportation Research Board
 KEYWORDS: TRAVEL TIME; ECONOMIC ANALYSIS;
 CONSUMERS; BEHAVIOR; RESEARCH
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$2.40 for Transportation Research Record 587

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Reichman, S.; Stopher, P.R.
Hebrew University; Cornell University
ADDRESS: HU, Jerusalem, Israel; CU, Ithaca, NY
TITLE: Applications of Value of Travel Time to
Travel Demand Estimation

Paper published in Transportation Research Record
587, 6-11

1976

SPONSOR: National Academy of Sciences,
Transportation Research Board
KEYWORDS: TRAVEL TIME; URBAN TRANSPORTATION;
MODELS; VEHICLE TRIPS; COSTS; INTERCITY
TRANSPORTATION

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Avenue, NW, Washington, DC 20418
\$2.40 for Transportation Research Record 587

ADDRESS: Washington, DC
TITLE: Work-Force Migration Patterns, 1970-76

Reprint from Survey of Current Business, February
1978, 17-20
1978, February

KEYWORDS: MIGRATION; EMPLOYMENT; REGIONAL
ANALYSIS; SOCIO-ECONOMIC FACTORS; EARNINGS;
TABLES (DATA); LABOR MIGRATION; URBAN AREAS;
STATE ANALYSIS; RURAL AREAS

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Rice, P.L.

Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section

ADDRESS: Oak Ridge, TN 37830

TITLE: Energy Conditions in the South

Report No. ORNL/TN-5568, 338 p.

1976, December

SPONSOR: Energy Research and Development
Administration

KEYWORDS: ENERGY DEMAND; ENERGY SUPPLIES; ENERGY
RESOURCES; TABLES (DATA); MAPS; NATURAL GAS;
PETROLEUM; COAL; HYDROELECTRIC POWER; NUCLEAR
POWER; PETROLEUM PRODUCTS; ALABAMA; ARKANSAS;
FLORIDA; GEORGIA; KENTUCKY; LOUISIANA;
MISSISSIPPI; NORTH CAROLINA; OKLAHOMA; SOUTH
CAROLINA; TENNESSEE; TEXAS; VIRGINIA; WEST
VIRGINIA; SOUTHERN STATES; REGIONAL ANALYSIS;
STATE ANALYSIS

AVAILABILITY: NTIS

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Reilly, J.

Capital District Transportation Authority
ADDRESS: Albany, NY

TITLE: Transit Costs During Peak and Off-Peak
Hours

Paper presented at the 1977 Annual Meeting of the
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Washington, DC, January 1977

1977, January

KEYWORDS: COSTS; PATES (COSTS); DEMAND
(ECONOMICS); MASS TRANSPORTATION

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Rice, P.L.

Oak Ridge National Laboratory, Energy Division,
Economic Analysis Section

ADDRESS: Oak Ridge, TN 37830

TITLE: 1975 Energy Conditions in the South

Report No. ORNL/TN-6190, 254 p.

1978, March

SPONSOR: U.S. Dept. of Energy

KEYWORDS: SOUTHERN STATES; STATE ANALYSIS; ENERGY
SUPPLIES; NATURAL GAS; PETROLEUM; COAL;
ENERGY RESERVES; ENERGY CONSUMPTION; REGIONAL
ANALYSIS; HYDROELECTRIC POWER; RESIDENTIAL
SECTOR; COMMERCIAL SECTOR; INDUSTRIAL SECTOR;
TRANSPORTATION; ELECTRIC UTILITIES;
PRODUCTION; TABLES (DATA); ENERGY DEMAND;
ELECTRIC POWER DEMAND

AVAILABILITY: NTIS

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Reilly, J.J.; Wiswall, R.H.; Waide, C.H.
Brookhaven National Laboratory, Dept. of Applied
Science

ADDRESS: Upton, NY 11973

TITLE: Motor Vehicle Storage of Hydrogen Using
Metal Hydrides. Final Report

Report No. TEC-75/001, 88 p.

1978, October

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYWORDS: HYDROGEN; HYDROGEN STORAGE; HYDRIDES;
AUTOMOBILES; MAGNESIUM HYDRIDES; ALUMINUM
HYDRIDES; DESIGN; STABILITY; COMPARATIVE
EVALUATIONS; TABLES (DATA); DIAGRAMS;
ALTERNATE FUELS

AVAILABILITY: NTIS

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Rice, R.G.

Toronto, University of, Dept. of Civil Engineering
ADDRESS: Toronto, Canada

TITLE: Evaluation of Road and Transit System
Requirements for Alternative Urban Forms

Paper prepared for presentation at the Annual
Meeting of the Transportation Research Board,
29 p.

1978, January

KEYWORDS: URBAN AREAS; LAND USE; MODELS;
TRANSPORTATION; PLANNING; TRAVEL; VEHICLE
TRIPS

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Reister, D.B.

Institute for Energy Analysis

ADDRESS: Oak Ridge, TN 37830

TITLE: The Total Energy Cost of Freight Transport

Report No. ORAU/IEA(M)-77-7, v.p.

1977, February

SPONSOR: Energy Research and Development
Administration

KEYWORDS: COSTS; ENERGY CONSUMPTION; CARGO
TRANSPORTATION; NET ENERGY; RAIL
TRANSPORTATION; WATER TRANSPORTATION; TRUCKS;
INTERCITY TRANSPORTATION; AIR TRANSPORTATION;
INPUT-OUTPUT ANALYSIS; COMPARATIVE EVALUATIONS

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Riddell, P.R.; Oliver, R.C.; Reichenbach, R.E.
Institute for Defense Analyses, Science and
Technology Division

ADDRESS: 400 Army-Navy Drive, Arlington, VA 22202

TITLE: DoD Energy R & D. Part II: Military

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Renshaw, V.; Friedenber, H.L.; Levine, B.
U.S. Dept. of Commerce, Bureau of Economic
Analysis

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Fuel Options--Performance and R & D
Implications

Report No. AD/A 042272, IDA Paper P-1116, 108 p.
1977, March

SPONSOR: U.S. Dept. of Defense, Defense Advanced
Research Projects Agency; U.S. Dept. of
Defense, Office of the Director of Defense
Research and Engineering

KEYWORDS: MILITARY; FUELS; CONSUMPTION; ENERGY
MANAGEMENT; FORECASTING; PETROLEUM; SYNTHETIC
FUELS; AVIATION FUELS; TABLES (DATA); OIL
SHALE; HYDROCARBONS; ALTERNATE FUELS;
RESEARCH; DEVELOPMENT; ENGINES; TRANSPORTATION
AVAILABILITY: NTIS

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Rieber, M.; Soo, S.L.; King, P.; King, Y.T.;
Leung, T.; Wu, H.; Wu, J.

Illinois, University of, Center for Advanced
Computation

ADDRESS: Urbana, IL 61801

TITLE: Comparative Coal Transportation Costs: An
Economic and Engineering Analysis of Truck,
Belt, Rail, Barge and Coal Slurry and
Pneumatic Pipelines. Volumes 1-8

CAC Document No. 223; Report Nos. PB-274379, 93
p. for Volume 1; PB-274380, 114 p. for Volume
2; PB-274381, 58 p. for Volume 3; PB-274382,
96 p. for Volume 4; PB-274383, 384 p. for
Volume 5; PB-274384, 65 p. for Volume 6;
PB-274385, 78 p. for Volume 7; PB-274386, 15
p. for Volume 8

1977, August

SPONSOR: U.S. Dept. of Interior, Bureau of Mines;
Federal Energy Administration

KEYWORDS: COAL; TRANSPORTATION; COSTS; ECONOMICS;
TRUCKS; RAIL TRANSPORTATION; SLURRIES;
BARGES; PIPELINE TRANSPORTATION; PNEUMATIC
TRANSPORT; CONVEYORS; COMPARATIVE
EVALUATIONS; MODELS; CAPITAL COSTS; OPERATING
COSTS; TABLES (DATA); GRAPHS (CHARTS);
WATERWAY TRANSPORTATION; REGIONAL ANALYSIS;
ENGINEERING; CARGO TRANSPORTATION
AVAILABILITY: NTIS

<532>

Rinde, J.A.; Chiao, T.T.; Stone, R.G.

Lawrence Livermore Laboratory
ADDRESS: University of California, Livermore, CA
94550

TITLE: Composite Fiber Flywheel for Energy Storage

Paper published in 8th National SAMPE (Society
for the Advancement of Materials and Process
Engineering) Technical Conference. Volume
8. Bicentennial of Materials, pp. 25-43;
conference held October 12-14, 1976 in
Seattle, Washington

1976, October

SPONSOR: Energy Research and Development
Administration

KEYWORDS: FLYWHEELS; ENERGY STORAGE; COMPOSITE
MATERIALS; FIBERS; DESIGN; DEVELOPMENT;
UTILIZATION; HYBRID ELECTRIC-POWERED
VEHICLES; LAWRENCE LIVERMORE LABORATORY;
PHYSICAL PROPERTIES; RESEARCH PROGRAMS;
TABLES (DATA); GRAPHS (CHARTS)

<533>

Ring, S.L.; Brewer, K.A.; Butler, D.L.
Iowa State University, Civil Engineering and
Engineering Research Institute

ADDRESS: Ames, IA

TITLE: Evaluation of Interaction Between Rural
Regional Transportation and Energy

Availability

<530>

Report presented at the 54th Annual Meeting of
the Transportation Research Board, published
in "Transportation Energy Conservation and
Demand," Transportation Research Record 561,
12-22

1976

SPONSOR: U.S. Dept. of Transportation, Office of
University Research

KEYWORDS: RURAL AREAS; RURAL TRANSPORTATION; RAIL
TRANSPORTATION; FOOD; TRANSPORTATION;
SOCIO-ECONOMIC FACTORS; RAILROADS; MAPS;
IOWA; ELECTRIC POWER GENERATION; AGRICULTURE;
REGIONAL ANALYSIS; LIFE STYLE; STATE
GOVERNMENT; GOVERNMENT POLICIES

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$5.00 for Transportation Research Record 561

<534>

Rishavy, E.A.; Hamilton, S.C.; Ayers, J.A.;
Keane, M.A.

General Motors Corp., Chevrolet Engineering;
General Motors Corp., Research Laboratories

ADDRESS: Warren, MI 48090

TITLE: Engine Control Optimization for Best Fuel
Economy with Emission Constraints

Paper No. 770075, presented at the Society of
Automotive Engineers' International
Automotive Engineering Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 28-March 4, 1977, 20 p.

1977

SPONSOR: Society of Automotive Engineers
KEYWORDS: FUEL ECONOMY; COMPUTER PROGRAMS;
AUTOMOTIVE EMISSIONS; TESTING; ENGINES;
CATALYTIC CONVERTERS; TABLES (DATA);
COMPARATIVE EVALUATIONS; PERFORMANCE; GRAPHS
(CHARTS); OPTIMIZATION; AUTOMOTIVE EMISSION
CONTROL

AVAILABILITY: Society of Automotive Engineers,
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

<535>

Roan, V.P.

Florida, University of, Dept. of Mechanical
Engineering

ADDRESS: Gainesville, FL

TITLE: The Design and Development of a
Hybrid-Electric Urban Transit Vehicle

Paper presented at the Fourth International
Electric Vehicle Symposium (sponsored by the
Electric Vehicle Council and the
International Union of Producers and
Distributors of Electrical Energy), held in
Dusseldorf, Germany, August 31 - September 2,
1976, 25 p.

1976, September

SPONSOR: Florida Dept. of Transportation
KEYWORDS: ELECTRIC VEHICLES; URBAN

TRANSPORTATION; BUSES (VEHICLES); HYBRID
ELECTRIC-POWERED VEHICLES; DESIGN;
COMPUTERIZED SIMULATION; DRAG; DIESEL
ENGINES; TESTING; ROAD TESTS; AERODYNAMICS;
GRAPHS (CHARTS)

AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

<536>

Roberts, P.O.

Massachusetts Institute of Technology, Center for
Transportation Studies

ADDRESS: Cambridge, MA 02139

<536>

<536> COST.

TITLE: Factors Influencing the Demand for Goods Movement

CTS Report No. 75-16, Working Paper No. 1, 34 p. 1975, September

SPONSOR: U.S. Dept. of Transportation, Office of University Research

KEYWORDS: CARGO TRANSPORTATION; MARKET; DISTRIBUTION; COSTS; CONSUMERS; DEMAND (ECONOMICS); PURCHASING; GRAPHS (CHARTS); INVENTORIES; TABLES (DATA); ECONOMIC ANALYSIS; MODELS; SYSTEMS ANALYSIS; COMMODITIES

<537>

Roberts, P.O.

Massachusetts Institute of Technology, Center for Transportation Studies

ADDRESS: Cambridge, MA 02139

TITLE: Forecasting Freight Flows Using a Disaggregate Freight Demand Model

CTS Report No. 76-1, 26 p.

1976, January

SPONSOR: Federal Energy Administration

KEYWORDS: FORECASTING; CARGO TRANSPORTATION; MATHEMATICAL MODELS; COSTS; TARIFFS; COMMODITIES; DEMAND (ECONOMICS); PLANNING; RATES (COSTS)

<538>

Roberts, P.O.

Massachusetts Institute of Technology, Center for Transportation Studies

ADDRESS: Cambridge, MA 02139

TITLE: Developing Freight Origin-Destination Data for Use in Freight Planning

Report No. CTS 76-3, 18 p.

1976, February

SPONSOR: U.S. Dept. of Transportation, Transportation Systems Center

KEYWORDS: CARGO TRANSPORTATION; SHIPMENTS; DATA ACQUISITION; COMMODITIES; SURVEYS; MODELS; DATA COMPILATION; COSTS; TABLES (DATA); INFORMATION; PLANNING; DEMAND (ECONOMICS); DISTANCE

<539>

Roberts, P.O.; Terziew, M.N.; Kneafsey, J.T.; Wilson, L.B.; Samuelson, R.D.; Chiang, U.S.; Deephouse, C.V.

Massachusetts Institute of Technology, Center for Transportation Studies

ADDRESS: Cambridge, MA 02139

TITLE: Analysis of the Incremental Cost and Trade-offs Between Energy Efficiency and Physical Distribution Effectiveness in Intercity Freight Markets

CTS Report No. 76-14, 174 p.

1976, November

SPONSOR: Federal Energy Administration, Office of Transportation Policy Research

KEYWORDS: INTERCITY TRANSPORTATION; CARGO TRANSPORTATION; COSTS; MODELS; FORECASTING; TRUCKS; RAIL TRANSPORTATION; TRAVEL TIME; DELAYS; TARIFFS; FUEL CONSUMPTION; WATERWAY TRANSPORTATION; SHIPMENTS; FUEL ECONOMY; TONNAGE; TABLES (DATA); COMMODITIES

<540>

Robertson, B.; Baugarten, G.P.

U.S. Dept. of Commerce, National Bureau of

Standards, Institute of Basic Standards

ADDRESS: Washington, DC 20234

TITLE: Evaluation of Automotive Fuel Flowmeters

Report No. PB-268582, NBS TN 943, 99 p.

1977, June

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Systems Development and Technology

KEYWORDS: AUTOMOBILES; FUEL ECONOMY; MEASURING INSTRUMENTS; FUEL CONSUMPTION; TESTING; DIAGRAMS

AVAILABILITY: NTIS; also available from GPO, Stock No. 003-003-01799-0

<541>

Roche, G.; Lago, A.M.

RMC Research Corp.

ADDRESS: Bethesda, MD

TITLE: Intercity Passenger Transportation: Mode/Energy Conservation. Volume II: Analysis

Report No. PB-250884, RMC-UR-286, 321 p.

1975, December

SPONSOR: Council on Environmental Quality; Federal Energy Administration

KEYWORDS: ENERGY CONSERVATION; PASSENGER TRANSPORTATION; INTERCITY TRANSPORTATION; MODELS; FORECASTING; SOCIO-ECONOMIC FACTORS; TRAVEL; NOISE (SOUND); AIR POLLUTION; ACCIDENTS; LAND USE; OPERATING COSTS; SPEED LIMITS; GASOLINE; TAXES

AVAILABILITY: NTIS

<542>

Roche, G.; Lago, A.M.

RMC Research Corp.

ADDRESS: 7910 Woodmont Avenue, Bethesda, MD 20014

TITLE: Intercity Passenger Transportation: Mode/Energy Conservation. Volume I: Executive Summary

Report No. PB-250883, RMC Report UR-286, 30 p.

1975, December

SPONSOR: Council on Environmental Quality; Federal Energy Administration

KEYWORDS: INTERCITY TRANSPORTATION; GOVERNMENT POLICIES; MODELS; FUEL ECONOMY; TAXES; ENERGY CONSUMPTION; ECONOMICS; STATISTICS; VEHICLE MILES TRAVELED; FORECASTING; TRANSPORTATION MODE CHOICE

AVAILABILITY: NTIS

<543>

Rockwell International, Space Division

ADDRESS: Canoga Park, CA

TITLE: Economic and Technical Feasibility Study for Energy Storage Flywheels

Report No. ERDA 76-65, 436 p.

1975, December

SPONSOR: Energy Research and Development Administration, Division of Conservation Research and Technology

KEYWORDS: FEASIBILITY; FLYWHEELS; ENERGY STORAGE; TABLES (DATA); TECHNOLOGY; FORECASTING; ECONOMICS; UTILIZATION; TRANSPORTATION; ELECTRIC UTILITIES; COMMERCIAL SECTOR; INDUSTRIAL SECTOR; RESEARCH; DESIGN; RESIDENTIAL SECTOR; HYBRID ELECTRIC-POWERED VEHICLES; ELECTRIC VEHICLES; INSTITUTIONAL FACTORS; SAFETY; GRAPHS (CHARTS); DIAGRAMS

<544>

Roelke, R.J.; McFallin, K.L.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Cold-Air Performance of the
Compressor-Drive Turbine of the Department of
Energy Baseline Automobile Gas-Turbine Engine

Report No. DOE/NASA/1011-78/25, NASA TN-78894,
E-9480, 22 p.

1978, July

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: GAS TURBINE ENGINES; PERFORMANCE; US
DOE; AUTOMOBILES; AERODYNAMICS; VELOCITY;
TESTING; ENGINES; EFFICIENCY; EQUIPMENT;
MEASUREMENT; PRESSURE MEASUREMENT; GRAPHS
(CHARTS); DIAGRAMS; TEMPERATURE; TORQUE
AVAILABILITY: NTIS

<545>

Rohy, D.A.; Wachman, J.P.; Duffy, T.E.
International Harvester Co., Solar Division
ADDRESS: 2200 Pacific Highway, San Diego, CA
92138
TITLE: Automotive Storage of Hydrogen Using
Modified Magnesium Hydrides

Report No. TEC-75/002, 55 p.

1975, July

SPONSOR: U.S. Environmental Protection Agency,
Office of Air and Waste Management, Office of
Mobile Source Air Pollution Control,
Alternative Automotive Power Systems
Division; Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: HYDROGEN; AUTOMOBILES; MAGNESIUM
HYDRIDES; ENERGY STORAGE; ALTERNATE FUELS;
MAGNESIUM ALLOYS; RESEARCH; HYDRIDES;
REFUELING; TABLES (DATA); GRAPHS (CHARTS);
HYDROGEN STORAGE
AVAILABILITY: NTIS

<546>

Rosenberg, N.; Bufferd, A.; Coonley, P.;
Hamilton, W.; Kaiser, R.; Raber, P.T.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Institutional Factors in Transportation
Systems and Their Potential for Bias Toward
Vehicles of Particular Characteristics

Report No. HCP/H1043-01, CONS/1043-1, 428 p.
1978, February

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: HYBRID ELECTRIC-POWERED VEHICLES;
INSTITUTIONAL FACTORS; LEGISLATION; TAXES;
REGULATIONS; ELECTRIC VEHICLES; TRAFFIC
CONTROL; GOVERNMENT POLICIES; AUTOMOTIVE
INDUSTRY; ELECTRIC POWER; BATTERY CHARGING;
VEHICLE PARKING; TABLES (DATA); REGIONAL
ANALYSIS; PRICES; RATES (COSTS); PETROLEUM;
URBAN AREAS
AVAILABILITY: NTIS

<547>

Rosenqvist, J.K.G.; Gunnarsson, S.G.; Lundholm,
S.G.
KB United Stirling (Sweden) AB & Co.
ADDRESS: Sweden
TITLE: The Development of a 150 kW (200 HP)
Stirling Engine for Medium Duty Automotive
Application--A Status Report

<548>

Paper No. 770081, presented at the Society of
Automotive Engineers' International
Automotive Engineering Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 28-March 4, 1977, 12 p.

1977

SPONSOR: Society of Automotive Engineers
KEYWORDS: STIRLING ENGINES; HEAT EXCHANGERS;
PERFORMANCE; COSTS; DIESEL ENGINES; GRAPHS
(CHARTS); COMPARATIVE EVALUATIONS; FUEL
CONSUMPTION; FUEL ECONOMY; TRUCKS; DIAGRAMS;
CONTROL EQUIPMENT
AVAILABILITY: Society of Automotive Engineers,
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

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Rosenthal, S.R.; Herniter, J.D.; Welan, U.P.
Boston University, School of Management
ADDRESS: Boston, MA 02215
TITLE: Model for Cost-Effective Maintenance of
Rail Transit Vehicles in Urban Mass Transit
Systems

Paper published in Transportation Research Record
627, 21-28

1977

SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration
KEYWORDS: MAINTENANCE; COST ANALYSIS; SCHEDULING;
RAIL TRANSPORTATION; MODELS; PLANNING
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.20 for Transportation Research Record 627

<549>

Ross, J.A.; Wooldridge, G.A.
Rohr Industries Inc., Advanced Transportation
Systems
ADDRESS: Chula Vista, CA 92010
TITLE: Preliminary Power Train Design for a
State-of-the-Art Electric Vehicle

Report No. DOE/NASA/0592-78/1, NASA CR-135340,
RHR-78-035, 222 p.

1978, April

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation, Electric
and Hybrid Vehicle Systems Program; National
Aeronautics and Space Administration, Lewis
Research Center
KEYWORDS: ELECTRIC VEHICLES; DESIGN; POWER TRAIN
SYSTEMS; PERFORMANCE; ELECTRIC VEHICLE RANGE;
DRIVING CYCLE; EFFICIENCY; AUTOMOTIVE
ENGINEERING; TESTING; SIMULATION
AVAILABILITY: NTIS

<550>

Rowlett, B.H.; Hurry, R.
Airesearch Manufacturing Co.
ADDRESS: Torrance, CA
TITLE: Near-Term Electric Vehicle Program: Phase
1, Final Report

Report No. SAN/1213-1, 259 p.

1977, August

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; DESIGN; PERFORMANCE;
SAFETY; BATTERIES; TABLES (DATA); GRAPHS
(CHARTS); DIAGRAMS; ENERGY STORAGE;
ECONOMICS; COSTS; DEVELOPMENT; MODELS;
SIMULATION; LIFE-CYCLE COST; TRANSPORTATION
AVAILABILITY: NTIS

<551>

<551>

Rescitto, D.; McCormick, J.; Gray, S.
Mechanical Technology Inc.
ADDRESS: Latham, NY 12110
TITLE: Hydrodynamic Air Lubricated Compliant
Surface Bearing for an Automotive Gas Turbine
Engine. I - Journal Bearing Performance

Report No. CONS/9427-1, NASA-CR-135368, 148 p.
1976, April

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation; National
Aeronautics and Space Administration
KEYWORDS: TESTING; AUTOMOTIVE ENGINES; GAS
TURBINE ENGINES; BEARINGS; DESIGN;
PERFORMANCE; TEMPERATURE
AVAILABILITY: NTIS

<552>

Sacco, J.P.; Hajj, M.H.
South Carolina, University of, Dept. of
Government and International Studies; South
Carolina, University of, Traffic and
Transportation Center
ADDRESS: Columbia, SC 29208
TITLE: Impact of the Energy Shortage on Travel
Patterns and Attitudes

Report presented at the 54th Annual Meeting of
the Transportation Research Board, published
in "Transportation Energy Conservation and
Demand," Transportation Research Record 561,
1-11

1976

SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration
KEYWORDS: ENERGY SHORTAGES; TRAVEL; ATTITUDES;
AUTOMOBILES; SOUTH CAROLINA; PUBLIC
TRANSPORTATION; GASOLINE; AVAILABILITY;
SERVICES; ENERGY CONSERVATION; SURVEYS;
VELOCITY; BEHAVIOR; PRICES; TABLES (DATA);
BUSES (VEHICLES); CARPOOLING
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$5.00 for Transportation Research Record 561

<553>

Samuel, J.M.G.
Advanced Vehicle Systems Ltd.
ADDRESS: United Kingdom
TITLE: U.K. Electric Vehicle Development
Programmes

Paper No. 780088, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 12 p.

1978

KEYWORDS: UNITED KINGDOM; ELECTRIC VEHICLES;
BATTERIES; DESIGN; VANS; LEAD-ACID BATTERIES;
RESEARCH; PHOTOGRAPHS
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<554>

Sanders, D.B.; Reynen, T.A.; Bhatt, K.
De Leuw, Cather and Co.; Urban Institute
ADDRESS: Washington, DC
TITLE: Characteristics of Urban Transportation
Systems: A Handbook for Transportation
Planners

v.p.

1978, May

SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration; U.S. Dept. of

Transportation, Federal Highway Administration
KEYWORDS: URBAN TRANSPORTATION; PLANNING; RAIL
TRANSPORTATION; BUSES (VEHICLES); RAPID
TRANSIT SYSTEMS; HIGHWAY TRANSPORTATION;
VELOCITY; CAPACITY; OPERATING COSTS; ENERGY
CONSUMPTION; EMISSIONS; ACCIDENTS; REGIONAL
ANALYSIS; COMPARATIVE EVALUATIONS; GRAPHS
(CHARTS); TABLES (DATA)

<555>

Sasaki, B.R.
Executive Office of the President, Office of
Management and Budget
ADDRESS: Washington, DC
TITLE: Predicting Transporter's Choice of Mode

Paper presented at the 54th Annual Meeting of the
Transportation Research Board, published in
the Transportation Research Record 577,
entitled "Transportation Characteristics of
Truck, Rail, and Water Freight," 13-18

1976

KEYWORDS: FORECASTING; RAIL TRANSPORTATION; CARGO
TRANSPORTATION; BARGES; COSTS; COMPUTERIZED
SIMULATION; DEMAND (ECONOMICS); MODELS; OHIO
RIVER; TRAFFIC; STATISTICS; TRANSPORTATION
MODE CHOICE

<556>

Sasser, J.; Emerson, J.; Garcia, A.
Tetra Tech Inc.
ADDRESS: 1911 N. Fort Myer Drive, Arlington, VA
22209
TITLE: Assessment and Forecast of Marine Fuels
Price and Availability

Report No. COM-75-1054, HA-RD-920-75021, v.p.
1975, April 12

SPONSOR: U.S. Dept. of Commerce, Maritime
Administration
KEYWORDS: FORECASTING; WATER TRANSPORTATION;
FUELS; PRICES; AVAILABILITY; MARINE
TRANSPORTATION; RESIDUAL OILS; TANKER SHIPS;
CARGO TRANSPORTATION; FUEL CONSUMPTION;
ALTERNATE FUELS; PETROLEUM; DEMAND
(ECONOMICS); SUPPLY (ECONOMICS); ENERGY
DEMAND; ENERGY SUPPLIES
AVAILABILITY: NTIS

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Schimpeler, C.C.; Corradino, J.C.; Jarvis, J.J.;
Unger, V.E.; Stout, R.W.
Schimpeler-Corradino Associates; Georgia
Institute of Technology; U.S. Dept. of
Transportation
TITLE: Optimum Staging of Projects in a Highway
Plan

Report presented at the 54th Annual Meeting of
the Transportation Research Board, published
in Transportation Research Record 585, 25-34

1976

KEYWORDS: HIGHWAYS; PLANNING; FORECASTING;
TRAFFIC; MODELS; TABLES (DATA); SCHEDULING;
CONSTRUCTION
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.60 for Transportation Research Record 585

<558>

Schink, G.R.; Loxley, C.J.
Wharton EPA Inc.
ADDRESS: One University City, 4025 Chestnut St.,

<558> CONT.

Philadelphia, PA 19104
 TITLE: An Analysis of the Automobile Market:
 Modeling the Long-Run Determinants of the
 Demand for Automobiles. Volume I. The
 Wharton EPA Automobile Demand Model

155 p.

1977, February

SPONSOR: U.S. Dept. of Transportation, Office of
 the Secretary; U.S. Dept. of Transportation,
 Transportation Systems Center
 KEYWORDS: ECONOMETRIC MODELS; MARKET;
 AUTOMOBILES; DEMAND (ECONOMICS); FORECASTING;
 SALES; VEHICLE REGISTRATIONS; FUEL ECONOMY;
 SIMULATION; GOVERNMENT POLICIES; COSTS; STOCKS
 AVAILABILITY: NTIS

<559>

Schink, G.R.; Loxley, C.J.
 Wharton EPA Inc.
 ADDRESS: One University City, 4025 Chestnut
 Street, Philadelphia, PA 19104
 TITLE: An Analysis of the Automobile Market:
 Modeling the Long-Run Determinants of the
 Demand for Automobiles. Volume II:
 Simulation Analysis Using the Wharton E.P.A.
 Automobile Demand Model

Volume II of 3 volumes, v.p.

1977, February

SPONSOR: U.S. Dept. of Transportation, Office of
 the Secretary; U.S. Dept. of Transportation,
 Transportation Systems Center
 KEYWORDS: AUTOMOBILES; MARKET; DEMAND
 (ECONOMICS); SIMULATION; ECONOMETRIC MODELS;
 FORECASTING; GASOLINE; PRICES; TABLES (DATA);
 INCOME; TAXES; GOVERNMENT POLICIES; OPPC
 AVAILABILITY: NTIS

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Schink, G.R.; Loxley, C.J.
 Wharton EPA Inc.
 ADDRESS: One University City, 4025 Chestnut
 Street, Philadelphia, PA 19104
 TITLE: An Analysis of the Automobile Market:
 Modeling the Long-Run Determinants of the
 Demand for Automobiles. Volume III:
 Appendices to the Wharton E.P.A. Automobile
 Demand Model

Volume III of 3 volumes, 261 p.

1977, February

SPONSOR: U.S. Dept. of Transportation, Office of
 the Secretary; U.S. Dept. of Transportation,
 Transportation Systems Center
 KEYWORDS: ECONOMETRIC MODELS; AUTOMOBILES;
 FORECASTING; DEMAND (ECONOMICS); TABLES (DATA)
 AVAILABILITY: NTIS

<561>

Schmitt, F.W.; Wagner, C.E.
 Chrysler Corp.
 ADDRESS: Detroit, MI
 TITLE: Baseline Gas Turbine Development Program.
 Eighteenth Quarterly Progress Report

Report No. COO-2749-18, 261 p.

1977, April 30

SPONSOR: Energy Research and Development
 Administration, Division of Transportation
 Energy Conservation
 KEYWORDS: GAS TURBINE ENGINES; DESIGN;
 EFFICIENCY; FUEL ECONOMY; GRAPHS (CHARTS);
 TABLES (DATA); DIAGRAMS; VEHICLES;
 PERFORMANCE; DEVELOPMENT
 AVAILABILITY: NTIS

<562>

Schwartz, H.J.
 National Aeronautics and Space Administration,
 Lewis Research Center
 ADDRESS: Cleveland, OH
 TITLE: The Computer Simulation of Automobile Use
 Patterns for Defining Battery Requirements
 for Electric Cars

Paper presented at the Fourth International
 Electric Vehicle Symposium (sponsored by the
 Electric Vehicle Council and the
 International Union of Producers and
 Distributors of Electrical Energy), held in
 Dusseldorf, Germany, August 31 - September 2,
 1976, 15 p.

1976, September

KEYWORDS: ELECTRIC VEHICLES; BEHAVIOR;
 COMPUTERIZED SIMULATION; TRAVEL; AUTOMOBILES;
 BATTERIES; UTILIZATION
 AVAILABILITY: Electric Vehicle Council, 90 Park
 Ave., New York, NY 10016 \$1.50

<563>

Schwartz, H.J.
 National Aeronautics and Space Administration,
 Lewis Research Center
 ADDRESS: Cleveland, OH 44135
 TITLE: New Batteries and Their Impact on Electric
 Vehicles

Report No. ERDA/NASA 1011/77/3, NASA TR X-7362,
 paper presented at the International Electric
 Vehicle Exposition, held in Chicago,
 Illinois, April 26-29, 1977, v.p.

1977

SPONSOR: Energy Research and Development
 Administration, Division of Transportation
 Energy Conservation
 KEYWORDS: ELECTRIC VEHICLES; ELECTRIC VEHICLE
 RANGE; COSTS; BATTERIES; PERFORMANCE;
 COMPARATIVE EVALUATIONS

<564>

Schwartz, H.J.
 National Aeronautics and Space Administration,
 Lewis Research Center
 ADDRESS: Cleveland, OH 44135
 TITLE: The Requirements for Batteries for
 Electric Vehicles

Report No. N76-21701, NASA TR X-71916, Technical
 Paper presented at Twenty-Seventh Power
 Sources Symposium, Atlantic City, New Jersey,
 June 21-24, 1976, 7 p.

1976, June 24

KEYWORDS: BATTERIES; ELECTRIC VEHICLES; MARKET;
 PETROLEUM; FUEL CONSUMPTION; COMMERCIALIZATION
 AVAILABILITY: NTIS

<565>

Schwartz, H.L.
 Miami University
 ADDRESS: Miami, OH
 TITLE: Marketing Approach Using Product Diffusion
 Knowledge to Measure Consumer Transit
 Attitudes (Abridgment)

Paper published in Transportation Research Record
 625, 4-6

1977

SPONSOR: National Academy of Sciences,
 Transportation Research Board
 KEYWORDS: PUBLIC TRANSPORTATION; MARKETING;

<565>

<565> CONT.

CONSUMERS; BUSES (VEHICLES); ATTITUDES;
QUESTIONNAIRES
AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$3.20 for Transportation Research Record 625

<566>

Schwarz, R.
ASL Engineering Inc.
ADDRESS: 495 South Fairview Avenue, Goleta, CA
93017

TITLE: Near-Term Electric Vehicle Program.
Phase 1, Final Report

Report No. SAN/1295-1, 304 p.
1977, August

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation

KEYWORDS: ELECTRIC VEHICLES; DESIGN; BATTERIES;
PERFORMANCE; TABLES (DATA); GRAPHS (CHARTS);
DIAGRAMS; LIFE-CYCLE COST; COSTS; EFFICIENCY;
ENERGY STORAGE; URBAN TRANSPORTATION; ENERGY
CONSUMPTION; ENERGY CONSERVATION; WEIGHT
AVAILABILITY: NTIS

<567>

Seda, B.
Research Institute for Rotating Electrical
Machines
ADDRESS: Brno, Czechoslovakia
TITLE: Development of Electric Vehicles in
Czechoslovakia

Paper presented at the Fourth International
Electric Vehicle Symposium, held in
Dusseldorf, Germany, August 31 - September 2,
1976, 12 p.

1976, September

SPONSOR: Electric Vehicle Council; International
Union of Producers and Distributors of
Electrical Energy

KEYWORDS: ELECTRIC VEHICLES; DEVELOPMENT;
CZECHOSLOVAKIA; BUSES (VEHICLES); CONTROL
AVAILABILITY: Electric Vehicle Council, 90 Park
Ave., New York, NY 10016 \$1.50

<568>

Sevian, W.A.; Salzano, F.J.
Brookhaven National Laboratory
ADDRESS: Upton, NY
TITLE: Systems Study of Two Synthetic
Transportation Fuel Options

Report No. BNL-20071, CONF-741013-4, paper
presented at the 146th Meeting of the
Electrochemical Society, New York, New York,
Oct. 17, 1974, 10 p.

1974

SPONSOR: Energy Research and Development
Administration
KEYWORDS: ALTERNATE FUELS; COAL; HYDROGEN;
METHANE; SYNTHETIC FUELS; FORECASTING;
MODELS; ENVIRONMENTAL IMPACT; TRANSPORTATION
AVAILABILITY: NTIS

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Shaughnessy, A.E.
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Avenue, Washington, DC
20418

TITLE: Railroad Electrification: The Issues

Transportation Research Board Special Report 180,
88 p.

1977

KEYWORDS: RAIL TRANSPORTATION; RAILROADS;
ELECTRIC RAIL SYSTEMS; CONFERENCES;
EQUIPMENT; COSTS; ELECTRIC POWER DEMAND;
FINANCING; PLANNING; CAPITAL COSTS;
MAINTENANCE; ECONOMIC ANALYSIS
AVAILABILITY: \$3.60

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Shaw, H.L.; Wood, R.K.
Logistics Management Institute
ADDRESS: Washington, DC

TITLE: Volumes and Transportation Costs of Fossil
Fuels Shipped Between Census Regions

Report No. BNL-21995, 50 p.
1976, October

SPONSOR: Brookhaven National Laboratory, National
Center for Analysis of Energy Systems,
Economic Analysis Division; Energy Research
and Development Administration, Administrator
for Planning, Analysis, and Evaluation
KEYWORDS: PETROLEUM; COSTS; COAL; TRANSPORTATION;
NATURAL GAS; REGIONAL ANALYSIS; ENERGY
CONSUMPTION; MODELS; ENERGY SYSTEMS;
SIMULATION; ENERGY SUPPLIES; GRAPHS (CHARTS);
SUPPLY (ECONOMICS)
AVAILABILITY: NTIS

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Shelton, E.H.
Energy Research and Development Administration,
Bartlesville Energy Research Center
ADDRESS: Bartlesville, OK
TITLE: Motor Gasolines, Winter 1976-77

Report No. BERC/PPS-77/3, 89 p.
1977, June

KEYWORDS: GASOLINE; SURVEYS; TABLES (DATA);
GRAPHS (CHARTS); DISTILLATION; UNLEADED
AUTOMOTIVE FUELS; OCTANE; MAPS; MARKETING;
TRENDS; PHYSICAL PROPERTIES
AVAILABILITY: NTIS

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Shelton, E.H.
U.S. Dept. of Energy, Bartlesville Energy
Research Center
ADDRESS: Bartlesville, OK
TITLE: Diesel Fuel Oils, 1977

Report No. BERC/PPS-77/5, 38 p.
1977, November

KEYWORDS: DIESEL FUELS; FUEL OIL; TABLES (DATA);
GRAPHS (CHARTS); REGIONAL ANALYSIS; SURVEYS;
CHEMICAL PROPERTIES; CHEMICAL COMPOSITION;
TESTING
AVAILABILITY: NTIS

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Shelton, E.H.
U.S. Dept. of Energy, Bartlesville Energy
Research Center
ADDRESS: Bartlesville, OK
TITLE: Motor Gasolines, Summer 1977

Report No. BERC/PPS-78/1, 90 p.
1978, January

KEYWORDS: GASOLINE; SURVEYS; TABLES (DATA);
GRAPHS (CHARTS); DISTILLATION; UNLEADED

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AUTOMOTIVE FUELS; OCTANE; MAPS; MARKETING;
TRENDS; PHYSICAL PROPERTIES
AVAILABILITY: NTIS

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Shelton, E.M.
U.S. Dept. of Energy, Bartlesville Energy
Research Center
ADDRESS: Bartlesville, OK
TITLE: Aviation Turbine Fuels, 1977

Report No. BERC/PPS-78/2, 13 p.
1978, May

KEYWORDS: AVIATION FUELS; JET ENGINE FUELS;
COMPARATIVE EVALUATIONS; STATISTICS; CHEMICAL
PROPERTIES
AVAILABILITY: NTIS

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Sherrer, P.V.
U.S. Dept. of Transportation, Federal Highway
Administration, Highway Statistics Division,
Office of Highway Planning
ADDRESS: Washington, DC
TITLE: Road User and Property Taxes on Selected
Motor Vehicles: 1973

72 p.
1973

KEYWORDS: ROADS; PROPERTY VALUES; TAXES;
VEHICLES; HIGHWAYS; MOTORCYCLES; AUTOMOBILES;
NTSFS (VEHICLES); TRUCKS; TABLES (DATA);
GRAPHS (CHARTS); STATE GOVERNMENT; MAPS
AVAILABILITY: GPO \$0.90, Stock No. 5002-00098

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Shonka, D.B.
Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: Characteristics of Automotive Fleets in
the United States: 1966-1977

Report No. ORNL/TN-6449 Special, 49 p.
1978, September

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: AUTOMOTIVE FLEETS; AUTOMOBILES;
INVENTORIES; PURCHASING; FUEL ECONOMY;
OWNERSHIP; SURVEYS; TABLES (DATA); SIZE;
VEHICLE REGISTRATIONS; VEHICLE MILES
TRAVELED; CHARACTERISTICS
AVAILABILITY: NTIS

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Shonka, D.B.; Loebel, A.S.; Patterson, P.D.;
O'Connor, T.P.; Ogle, W.C.; Rose, A.B.;
Greene, D.L.
Oak Ridge National Laboratory, Energy Division,
Regional and Urban Studies Section
ADDRESS: Oak Ridge, TN 37830
TITLE: Transportation Energy Conservation Data
Book: Edition 2

Report No. ORNL-5320, 459 p.
1977, October

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ENERGY CONSERVATION; HIGHWAY
TRANSPORTATION; AIR TRANSPORTATION; RAIL
TRANSPORTATION; MARINE TRANSPORTATION;
PIPELINE TRANSPORTATION; STATISTICS; TABLES

(DATA); GRAPHS (CHARTS); VEHICLES;
REGULATIONS; ENERGY CONSUMPTION; DEMAND
(ECONOMICS); FUEL ECONOMY; FUEL CONSUMPTION;
AUTOMOBILES; ENERGY INTENSITY; TRAVEL; ENERGY
DEMAND; PASSENGER TRANSPORTATION; AUTOMOTIVE
FLEETS; PETROLEUM; SALES; PUBLIC
TRANSPORTATION; URBAN TRANSPORTATION; VEHICLE
REGISTRATIONS; VEHICLE MILES TRAVELED;
FORECASTING; GOVERNMENT POLICIES; ENERGY
SUPPLIES; WATER TRANSPORTATION
AVAILABILITY: NTIS

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Silberman, J.B. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Value of Travel Time

Transportation Research Record 587, 41 p.
1976

KEYWORDS: TRAVEL TIME; TRANSPORTATION; VEHICLE
TRIPS; PRICES; PLANNING; MODELS; PASSENGER
TRANSPORTATION; COSTS; INTERCITY
TRANSPORTATION; BEHAVIOR; USERS; ECONOMIC
ANALYSIS; BENEFIT COST ANALYSIS; COST
EFFECTIVENESS; TRAFFIC; RESEARCH; MOBILITY
AVAILABILITY: \$2.40

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Silberman, J.B. (ed.)
National Academy of Sciences, National Research
Council, Transportation Research Board
ADDRESS: 2101 Constitution Ave. NW, Washington,
DC 20418
TITLE: Transportation Energy Conservation and
Demand

Transportation Research Record 561, 6 reports
prepared for the 54th Annual Meeting of the
Transportation Research Board, 71 p.
1976

KEYWORDS: TRANSPORTATION; ENERGY CONSERVATION;
ENERGY DEMAND; DEMAND (ECONOMICS);
CONFERENCES; MEETINGS; URBAN TRANSPORTATION;
ATTITUDES; ENERGY SHORTAGES; RURAL AREAS;
COMMUTING; NEW JERSEY; GASOLINE; OWNERSHIP;
ENVIRONMENTAL IMPACT; TABLES (DATA)
AVAILABILITY: \$5.00

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Silence, S.M.; Chesshire, L.M.
U.S. Dept. of Transportation, Federal Highway
Administration
ADDRESS: Washington, DC
TITLE: Reevaluation of Ground Access to Airports

Paper presented at the 52nd Annual Meeting of the
Highway Research Board, published in Highway
Research Record No. 439, 19-27
1973

SPONSOR: National Academy of Sciences, National
Research Council, Highway Research Board
KEYWORDS: AIRPORTS; HIGHWAY TRANSPORTATION;
TRAVEL TIME; PEAK-HOUR DEMAND; VELOCITY;
URBAN TRANSPORTATION; URBAN AREAS; DISTANCE;
GRAPHS (CHARTS)

AVAILABILITY: National Academy of Sciences,
Transportation Research Board, 2101
Constitution Ave. NW, Washington, DC 20418
\$2.00 for Highway Research Record No. 439

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Simpson and Curtin; Booz, Allen Applied Research Inc.
ADDRESS: 55C, 1346 Chestnut Street, Philadelphia, PA 19107; B-A, 4733 Bethesda Ave., Bethesda, MD 20014
TITLE: Transbus Public Testing and Evaluation Program

Report No. PB-251882, UMTA-IT-06-0025-76-1, 245 p. 1976, January
SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration
KEYWORDS: TRANSPBUS; TESTING; BUSES (VEHICLES); PUBLIC OPINION; QUESTIONNAIRES; SURVEYS; TABLES (DATA); TRANSPORTATION DISADVANTAGED; PHOTOGRAPHS; PASSENGER TRANSPORTATION
AVAILABILITY: NTIS

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Skinner, L.E.
U.S. Dept. of Transportation, Federal Highway Administration
TITLE: Comparative Costs of Urban Transportation Systems

Final Report, 100 p. 1978, June
KEYWORDS: COSTS; URBAN TRANSPORTATION; TRANSPORTATION SYSTEMS; COMPARATIVE EVALUATIONS; TRAVEL TIME; PLANNING; TRANSPORTATION MODE CHOICE; TABLES (DATA); GRAPHS (CHARTS)
AVAILABILITY: GPO, Stock No. 050-001-00137-3

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Smith, J.R.; Tracy, J.C.; Potter, D.S.
General Motors Corp., Research Laboratories, Physics Dept., Environmental Activities Staff
ADDRESS: Warren, MI
TITLE: Tire Rolling Resistance - A Speed Dependent Contribution

Paper No. 780255, presented at the Society of Automotive Engineers' Congress and Exposition, Cobo Hall, Detroit, Michigan, February 27 - March 3, 1978, 6 p.
1978
KEYWORDS: TIRES; VELOCITY; MODELS; FUEL ECONOMY; AUTOMOBILES; FRICTION; WEAR
AVAILABILITY: Society of Automotive Engineers Inc., 400 Commonwealth Drive, Warrendale, PA 15096 \$2.50

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Sobel, K.L.; Batchelder, J.H.
Multisystems Inc., Transportation Systems Division
ADDRESS: Cambridge, MA
TITLE: Strategy For Implementing Integrated Regional Transit

Paper published in Transportation Research Record 625, 27-31
1977
SPONSOR: U.S. Dept. of Transportation, Research and Development Policy Analysis Division
KEYWORDS: URBAN TRANSPORTATION; PUBLIC TRANSPORTATION; PLANNING; OPERATING COSTS; MOBILITY; PUBLIC OPINION
AVAILABILITY: National Academy of Sciences, Transportation Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$3.20 for Transportation Research Record 625

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Society of Automotive Engineers Inc.
ADDRESS: 400 Commonwealth Dr., Warrendale, PA 15096
TITLE: Automotive Fuel Economy (Selected SAE Papers 1965 - 1975)
Progress in Technology Series, Volume 15, 314 p. 1976
KEYWORDS: AUTOMOBILES; FUEL ECONOMY; TESTING; FUEL CONSUMPTION; UTILIZATION; OPERATION; DESIGN; LUBRICANTS; GASOLINE; BIBLIOGRAPHIES

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Society of Automotive Engineers Inc.
ADDRESS: 400 Commonwealth Drive, Warrendale, PA 15096
TITLE: Engineering Know-How in Engine Design. Part 24: Economy in Engine Performance
Report No. SAE SP-411, Off-Highway Vehicle Meeting, Milwaukee Wisconsin, September 13-16, 1976, 54 p. 1976, August
SPONSOR: Society of Automotive Engineers, Milwaukee Section
KEYWORDS: AUTOMOTIVE ENGINES; AUTOMOTIVE ENGINEERING; FUEL CONSUMPTION; FUEL ECONOMY; DESIGN; AUTOMOTIVE EMISSIONS; FARM EQUIPMENT; DIESEL ENGINES; GRAPHS (CHARTS); DIAGRAMS; SYNTHETIC FUELS; AUTOMOTIVE EMISSION CONTROL; DYNAMOMETERS; TABLES (DATA); TRACTORS; LUBRICATING OILS

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Sokolsky, S.
Aerospace Corp., Energy and Resources Division
ADDRESS: 2350 E. El Segundo Blvd., El Segundo, CA 90245
TITLE: Alternative Policies for Effecting Intercity Energy Use
12 p. 1974, October 3
KEYWORDS: PLANNING; TRANSPORTATION; ENERGY CONSERVATION; INTERCITY TRANSPORTATION; TABLES (DATA); SIMULATION; ENERGY CONSUMPTION; GOVERNMENT POLICIES; BUSES (VEHICLES); RAIL TRANSPORTATION; AUTOMOBILES; AIR TRANSPORTATION; RAPID TRANSIT SYSTEMS; SUBSIDIES; TAXES

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Soltis, R.F.
National Aeronautics and Space Administration, Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: A Cycle Timer for Testing Electric Vehicles
Report No. DOE/NASA/1011-78/27, NASA TN-78934, E-9677, Technical Paper presented at the Fifth International Electric Vehicle Symposium sponsored by the Electric Vehicle Council, Philadelphia, PA, October 2-5, 1978, 5 p.
SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; TESTING; DRIVING CYCLE; VELOCITY; EQUIPMENT
AVAILABILITY: NTIS

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Soltis, R.F.; Bozek, J.M.; Denington, R.J.; Dustin, M.O.

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National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Baseline Tests of the Kordesch Hybrid
Passenger Vehicle

Report No. NASA TN-73769, CON/1011-14, 68 p.
1978, June

SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; TESTING;
ACCELERATION; ELECTRIC VEHICLE RANGE;
PASSENGER TRANSPORTATION; FUEL ECONOMY; SPARK
IGNITION ENGINES; PERFORMANCE; DIAGRAMS;
GRAPHS (CHARTS); ENERGY CONSUMPTION
AVAILABILITY: NTIS

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Soltis, R.F.; Dustin, H.O.; Sargent, M.B.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Results of Baseline Tests of the Lucas
Lisousine

Report No. NASA TM X-73609, 27 p.
1977, January

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; TESTING; DRIVE TRAIN
SYSTEMS; BATTERIES; PASSENGER TRANSPORTATION;
DRIVING CYCLE; PERFORMANCE; MILEAGE; ENERGY
CONSUMPTION; STANDARDS; PHOTOGRAPHS; GRAPHS
(CHARTS); ELECTRIC VEHICLE RANGE
AVAILABILITY: NTIS

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Southern, L.G.; Horner, A.L.
U.S. Dept. of Energy, Energy Information
Administration
ADDRESS: Washington, DC 20241
TITLE: International Petroleum Annual: 1976

Report No. DOE/EIA-0042, 34 p.
1978, June
KEYWORDS: PETROLEUM; PETROLEUM PRODUCTS;
PRODUCTION; INTERNATIONAL ANALYSIS; IMPORTS;
EXPORTS; PRICES; NATURAL GAS; TABLES (DATA);
PETROLEUM REFINING; ENERGY DEMAND; OIL WELLS;
CAPACITY

<592>
Southwest Research Institute; Cameron Engineers;
Standard Oil Co. of Ohio; SOHIO Petroleum Co.
ADDRESS: SRI, San Antonio, TX; CE, Denver, CO;
SOHIO, Grand Junction, CO
TITLE: Identification of Probable Automotive
Fuels Composition: 1985-2000 and Executive
Summary

Report No. NCP/W3684-01/1, 218 p.; Report No.
NCP/W3684-01/2 for Executive Summary, 55 p.
1978, May
SPONSOR: U.S. Dept. of Energy, Division of
Transportation Energy Conservation
KEYWORDS: ALTERNATE FUELS; RAW MATERIALS;
AUTOMOTIVE FUELS; DIESEL FUELS; MARKET;
TRANSPORTATION; ENERGY FLOW; TABLES (DATA);
FORECASTING; ENERGY DEMAND; SYNTHETIC
PETROLEUM; REFINING; PROPERTIES; OIL SHALE;
ALCOHOL FUELS; AUTOMOBILES; METHANOL; COAL;
PRODUCTION; HYDROCARBONS; INTERNAL COMBUSTION
ENGINES; OCTANE; GASOLINE

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Spana, G.W.; Hooper, W.J.; Bonham, C.W.; Hason,
R.H.; Grocki, J.J.; Hall, C.H.
Mettrics Inc.
ADDRESS: 290 Interstate North, Suite 116,
Atlanta, GA 30339
TITLE: Evaluation of Maritime Industry Energy
Consumption Profiles

93 p.
1977, December
SPONSOR: U.S. Dept. of Commerce, Maritime
Administration
KEYWORDS: ENERGY CONSUMPTION; ENERGY
CONSERVATION; SURVEYS; MARINE TRANSPORTATION;
CARGO TRANSPORTATION; WATERWAY
TRANSPORTATION; PORTS; TABLES (DATA); SHIPS;
CONSTRUCTION; INDUSTRIES; WATER
TRANSPORTATION; GREAT LAKES; EFFICIENCY
AVAILABILITY: NTIS

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Sparks, W.D.
Air-Conditioning and Refrigeration Institute
ADDRESS: Arlington, VA
TITLE: Conservation: The Centerpiece

ASHRAE Journal, 19(5), 22-24
1977, May
KEYWORDS: ENERGY CONSERVATION; TRANSPORTATION;
PRICES; PETROLEUM; NATURAL GAS; ENERGY
SHORTAGES; CONSUMERS; GOVERNMENT POLICIES;
ELASTICITY (ECONOMICS); BUILDINGS; ENERGY
CONSUMPTION; STANDARDS; ATTITUDES; PUBLIC
OPINION; INCENTIVES; INSULATION; APPLIANCES

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Spenny, C.H.; Clarke, J.M.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: A Computer Program (POWREQ) for Power
Requirements of Mass Transit Vehicles

Report No. UMTA-MA-06-0044-77-2,
DOT-TSC-UMTA-76-2, 68 p.
1977, August
SPONSOR: U.S. Dept. of Transportation, Urban Mass
Transportation Administration, Office of
Technology Development and Deployment
KEYWORDS: COMPUTER PROGRAMS; MASS TRANSPORTATION;
COMPUTERIZED SIMULATION; ENERGY CONSUMPTION
AVAILABILITY: NTIS

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Springer, K.J.
Southwest Research Institute, Automotive Research
Division, Dept. of Emissions Research
ADDRESS: San Antonio, TX
TITLE: Transportation, Trucks and Fuel
Conservation

Paper presented at the Fourth Interamerican
Conference on Materials Technology, Hotel
Macuto-Sheraton, Caracas, Venezuela, June
29-July 4, 1975, 7 p.
1975

KEYWORDS: TRANSPORTATION; TRUCKS; ENERGY
CONSERVATION; FUEL CONSUMPTION; VELOCITY;
WEIGHT; LOAD FACTOR; SAFETY; EMISSIONS;
BEHAVIOR; DIESEL FUELS; GASOLINE

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SRI International (formerly Stanford Research Institute)
ADDRESS: 333 Ravenswood Avenue, Menlo Park, CA 94025

TITLE: Fuel and Energy Price Forecasts: Quantities and Long-Term Marginal Prices. Final Report. Volume I

Report No. EPRI EA-433, Research Project 759-1, 171 p.

1977, September

SPONSOR: Electric Power Research Institute
KEYWORDS: FUELS; PRICES; FORECASTING; COAL; URANIUM; PETROLEUM; PETROLEUM PRODUCTS; NATURAL GAS; SYNTHETIC GAS; SYNTHETIC PETROLEUM; ELECTRIC POWER GENERATION; RESIDENTIAL SECTOR; COMMERCIAL SECTOR; INDUSTRIAL SECTOR; TRANSPORTATION; ENERGY MODELS; NUCLEAR FUELS; GRAPHS (CHARTS); TABLES (DATA); ENERGY DEMAND

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Stanford Research Institute
ADDRESS: 333 Ravenswood Avenue, Menlo Park, CA 94025

TITLE: Fuel and Energy Price Forecasts: Final Report. Volume II - Data Base

Report No. EPRI EA-433, Research Project 759-1, 289 p.

1977, February

SPONSOR: Electric Power Research Institute
KEYWORDS: ENERGY SUPPLIES; ENERGY MODELS; ENERGY BALANCE; DEMAND (ECONOMICS); PRICES; COSTS; TABLES (DATA); GRAPHS (CHARTS); RESIDENTIAL SECTOR; COMMERCIAL SECTOR; INDUSTRIAL SECTOR; TRANSPORTATION; FUELS; ENERGY CONVERSION; ECONOMICS

AVAILABILITY: Electric Power Research Institute, 3412 Hillview Ave., Palo Alto, CA 94304

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Stanford Research Institute

ADDRESS: Menlo Park, CA 94025

TITLE: Long Term Energy Alternatives Propulsion: Synthetic Fuel Versus Battery/Electric System

Report No. PB-262513, NSF/PRA-7516162/1/6, v.p. 1976, August

SPONSOR: National Science Foundation, Division of Policy Research and Analysis

KEYWORDS: AUTOMOBILES; SYNTHETIC FUELS; ALTERNATE FUELS; ELECTRIC VEHICLES; FORECASTING; COMPARATIVE EVALUATIONS; FUEL CONSUMPTION; LIFE-CYCLE COST; ENVIRONMENTAL IMPACT; COAL LIQUEFACTION; BATTERIES; TABLES (DATA); PRODUCTION; UTILIZATION; AUTOMOBILE TRANSMISSIONS

AVAILABILITY: NTIS

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Stearns, H.D.; Cooper, E.; Schaeffer, K.H.

U.S. Dept. of Transportation, Transportation

Systems Center

ADDRESS: Kendall Square, Cambridge, MA 02142

TITLE: An Analysis of Transportation Planning Effectiveness

Report No. UMTA-MA-09-9003-77-1, 78 p.

1977, July

SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration, Office of Transportation Planning, Office of Planning Assistance

KEYWORDS: PLANNING; TRANSPORTATION; URBAN TRANSPORTATION; REGIONAL ANALYSIS; TABLES (DATA); TRANSPORTATION SYSTEMS; LOCAL

GOVERNMENT

AVAILABILITY: NTIS

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Stenger, A.J.; Cunningsham, W.H.J.

Pennsylvania State University, Pennsylvania

Transportation Institute

ADDRESS: University Park, PA 16802

TITLE: An Experiment in Freight Modal Choice: Delineating the Rail-Truck Interface

Report No. PB-263156, DOT-TST-76-83, 145 p.

1976, May

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of University Research

KEYWORDS: CARGO TRANSPORTATION; RAILROADS; HIGHWAY TRANSPORTATION; TRUCKS; COMMODITIES; RAIL TRANSPORTATION; PLANNING; MODELS; MARKET; COMPETITION; RATES (COSTS); TONNAGE; DISTANCE; TABLES (DATA); REGIONAL ANALYSIS; QUESTIONNAIRES; SURVEYS;

AVAILABILITY: NTIS

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Stopher, P.R.

Cornell University, Dept. of Environmental

Engineering

ADDRESS: Ithaca, NY

TITLE: Applications of Value of Travel Time to Economic Evaluation of Transport Investment Alternatives

Paper published in Transportation Research Record 587, 19-23

1976

SPONSOR: National Academy of Sciences,

Transportation Research Board

KEYWORDS: TRAVEL TIME; ECONOMIC ANALYSIS; BENEFIT

COST ANALYSIS; COST EFFECTIVENESS; PLANNING

AVAILABILITY: National Academy of Sciences,

Transportation Research Board, 2101

Constitution Ave. NW, Washington, DC 20418

\$2.40 for Transportation Research Record 587

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Stopher, P.R.

Cornell University, Dept. of Environmental

Engineering

ADDRESS: Ithaca, NY

TITLE: Derivation of Values of Time from Travel Demand Models

Paper published in Transportation Research Record 587, 12-18

1976

SPONSOR: National Academy of Sciences,

Transportation Research Board

KEYWORDS: MODELS; BEHAVIOR; TRAVEL TIME; VEHICLE

TRIPS; PASSENGER TRANSPORTATION

AVAILABILITY: National Academy of Sciences,

Transportation Research Board, 2101

Constitution Ave. NW, Washington, DC 20418

\$2.40 for Transportation Research Record 587

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Strassheim, H.R.

Maryland, University of

TITLE: Airline Demand Functions in the North

Atlantic and Their Pricing Implications

Journal of Transport Economics and Policy, May

1978, 179-195

1978, May

KEYWORDS: AIR TRANSPORTATION; ECONOMETRIC MODELS;

<604> CONT.
PRICES; ELASTICITY (ECONOMICS); TRAVEL; MARKET

AUTOMOBILES; EFFICIENCY; TABLES (DATA);
FORECASTING; ENERGY POLICY; LEGISLATION

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Stucker, J.P.; Kirkwood, T.F.
Rand Corp.
ADDRESS: 1700 Main Street, Santa Monica, CA 90406
TITLE: The Economic Impact of Automobile Travel
Cost Increases on Households

Report No. R-1842-NSF/FEA, 81 p.
1977, July
SPONSOR: National Science Foundation; Federal
Energy Administration
KEYWORDS: ENERGY CONSUMPTION; ENERGY DEMAND;
GOVERNMENT POLICIES; GASOLINE; AIR QUALITY;
FAMILY LIFE; COSTS; SOCIO-ECONOMIC FACTORS;
INCOME; VEHICLE TRIPS; COST ESTIMATES;
INSURANCE; TABLES (DATA); SURVEYS;
AUTOMOBILES; OPERATING COSTS; ELASTICITY
(ECONOMICS); OCCUPANCY; GRAPHS (CHARTS);
MAINTENANCE; FUEL ECONOMY

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Systems Design Concepts Inc.; Brookhaven National
Laboratory, National Center for Analysis of
Energy Systems, Policy Analysis Division
ADDRESS: SDC, 9 Rector St., New York, NY 10006;
BNL, Upton, NY 11973
TITLE: Transportation Energy Consumption and
Conservation Policy Options in the Northeast

BNL Northeast Energy Perspectives Study, Report
No. BNL 50554, 163 p.
1976, April
SPONSOR: Energy Research and Development
Administration, Division of Biomedical and
Environmental Research
KEYWORDS: TRANSPORTATION; ENERGY CONSUMPTION;
ENERGY CONSERVATION; FORECASTING; TABLES
(DATA); REGIONAL ANALYSIS; GOVERNMENT
POLICIES; NORTHEASTERN STATES; ENERGY DEMAND
AVAILABILITY: NTIS

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Sato, P.L.; Kilpatrick, H.E., Jr.
Purvis Systems Inc., Washington Operations
ADDRESS: 3286 M Street NW, Washington, DC 20007
TITLE: Statistical Report on Urban Energy
Consumption

Report No. OST-TPI-76-02, 72 p.
1976, June
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of Transportation
Economic Analysis
KEYWORDS: CARGO TRANSPORTATION; ENERGY
CONSUMPTION; GOVERNMENT POLICIES; URBAN
AREAS; ENERGY RESOURCES; PRICES; PETROLEUM;
US DOT; STATISTICS; TABLES (DATA); COAL;
NATURAL GAS; ELECTRIC POWER; RESIDENTIAL
SECTOR; INDUSTRIAL SECTOR; TRANSPORTATION
AVAILABILITY: NTIS

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Tacina, R.
National Aeronautics and Space Administration,
Lewis Research Center
ADDRESS: Cleveland, OH 44135
TITLE: Experimental Evaluation of
Premixing-Prevaporizing Fuel Injection
Concepts for a Gas Turbine Catalytic Combustor

Report No. CONS/1011-18, NASA TN-73755, paper
presented at the Winter Annual Meeting,
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1977, v.p.
1977, August
SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: FUEL INJECTION SYSTEMS; ATOMIZATION;
EVAPORATION; DIAGRAMS; GRAPHS (CHARTS); GAS
TURBINES; CATALYSTS; COMBUSTORS; AUTOMOBILES
AVAILABILITY: NTIS

<607>
Sweeney, J.L.
Stanford University, Dept. of
Engineering-Economic Systems
ADDRESS: Stanford, CA 94305
TITLE: U.S. Gasoline Demand: An Economic
Analysis of the EPA New Car Efficiency
Standard

51 p.
1977, July
SPONSOR: Energy Research and Development
Administration, Office of Conservation
Planning Policy
KEYWORDS: GASOLINE; FUEL ECONOMY; AUTOMOBILES;
EFFICIENCY; STANDARDS; FUEL CONSUMPTION;
AUTOMOTIVE INDUSTRY; PRICES; GOVERNMENT
POLICIES; ECONOMIC ANALYSIS; ELASTICITY
(ECONOMICS); GRAPHS (CHARTS); TAXES; CONSUMERS

<611>
Tap, R.; Kaprelian, A.
U.S. Dept. of Transportation, Transportation
Systems Center
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Transportation Statistical Data and
Information

Report No. PB-265457, DOT-TSC-OST-76-60, 226 p.
1976, December
SPONSOR: U.S. Dept. of Transportation, Office of
the Secretary, Office of the Assistant
Secretary for Policy, Plans and International
Affairs, Office of Transportation Systems
Analysis and Information
KEYWORDS: TRANSPORTATION; STATISTICS; GOVERNMENT
POLICIES; INFORMATION; AVAILABILITY
AVAILABILITY: NTIS

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Sweeney, J.L.
Data Resources Inc., Energy Group
ADDRESS: Lexington, MA
TITLE: The Impact of the President's Proposed
Gasoline Tax and Gas-Guzzler Tax on Gasoline
Consumption

Data Resources Inc. Energy Bulletin, 6-11
1977, August
KEYWORDS: GASOLINE; TAXES; FUEL CONSUMPTION;

<612>
Tausig, W.H.
Tausig Associates
ADDRESS: Canaan Street Village, Canaan, NH 03741
TITLE: British Airways - An Analysis of
Efficiency and Cost Levels

Report No. PB-268060, OST-PS-70292, 66 p.

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1977, May

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Air Transportation Policy Staff

KEYWORDS: EFFICIENCY; COSTS; TABLES (DATA);

UNITED KINGDOM; STATISTICS; AIR

TRANSPORTATION; REVENUE; COMPARATIVE

EVALUATIONS; PASSENGER TRANSPORTATION;

OPERATING COSTS; CAPITAL COSTS; CARGO

TRANSPORTATION; USA; PRODUCTION; FINANCIAL

DATA; EARNINGS; PROFITS

AVAILABILITY: NTIS

<613>

Teal, R.; Wood, E., Jr.; Loudon, W.

Tufts University, Program in Urban, Social, and Environmental Policy

ADDRESS: Medford, MA 02155

TITLE: Tourist Traffic in Small Historic Cities: Analysis, Strategies, and Recommendations

Report No. PB-269492, DOT-TST-77-2, v.p.

1976, September

SPONSOR: U.S. Dept. of Transportation, Office of University Research

KEYWORDS: TOURISM; TRAFFIC; URBAN AREAS; URBAN

TRANSPORTATION; HISTORY; LOCAL GOVERNMENT;

TRAVEL; VEHICLE TRIPS; RECREATION; ECONOMIC

IMPACT; ENVIRONMENTAL IMPACT; SOCIAL IMPACT;

INSTITUTIONAL FACTORS; SALEM (MASSACHUSETTS);

ALEXANDRIA (VIRGINIA); ANNAPOLIS (MARYLAND);

NEWPORT (RHODE ISLAND); PLYMOUTH

(MASSACHUSETTS); MAPS

AVAILABILITY: NTIS

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Technology Study Panel

TITLE: The Need for and Deployment of Inexhaustible Energy Resource Technologies: Report of Technology Study Panel, Inexhaustible Energy Resources Study

1977, September

SPONSOR: Energy Research and Development Administration

KEYWORDS: ENERGY RESOURCES; SOLAR ENERGY; NATURAL

GAS; SPACE HEATING; TECHNOLOGY; ENERGY

DEMAND; ENERGY CONVERSION; COST ANALYSIS;

SUPPLY (ECONOMICS); GRAPHS (CHARTS); IMPORTS;

TABLES (DATA); SYNTHETIC FUELS; PRICES; RATES

(COSTS); COMMERCIAL SECTOR; ELECTRIC POWER;

UTILIZATION; TRANSPORTATION

<615>

Tev, P.; Jefferies, K.; Miao, D.

National Aeronautics and Space Administration, Lewis Research Center

ADDRESS: Cleveland, OH 44135

TITLE: A Stirling Engine Computer Model for Performance

Report No. DOE/NASA/1011-78/24, NASA-TM-78884, 69

p.

1978, July

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation

KEYWORDS: STIRLING ENGINES; MODELS; PERFORMANCE;

THERMODYNAMIC PROPERTIES; SIMULATION;

COMPUTER PROGRAMS

AVAILABILITY: GPO, Stock No. 757-139/1201

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Thermo Electron Corp.

ADDRESS: 101 First Avenue, Waltham, MA 02154

TITLE: Feasibility Test on Compounding the Internal Combustion Engine for Automotive Vehicles, Task II. Final Report

Report No. COO-2690-1, TE4193-76-75, 250 p. 1976

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation

KEYWORDS: INTERNAL COMBUSTION ENGINES; DIESEL

ENGINES; RANKINE CYCLE ENGINES; PERFORMANCE;

FUEL ECONOMY; TRUCKS; DESIGN; GRAPHS

(CHARTS); DIAGRAMS; AUTOMOTIVE EMISSIONS;

FEASIBILITY; TESTING; WASTE HEAT; RECOVERY;

UTILIZATION; DEMONSTRATION

AVAILABILITY: NTIS

<617>

Thompson, D.L.; Barth, J.; Garthner, R.; Soura, S. State University of New York, Center for Social Analysis

ADDRESS: Binghamton, NY 13901

TITLE: Analysis of State and Local Taxation of American Railroads

Report No. PB-268151, 138 p.

1977, January

SPONSOR: National Science Foundation, Science and Technology Policy Office

KEYWORDS: RAILROADS; RAIL TRANSPORTATION;

GOVERNMENT POLICIES; TAXES; ALLOCATIONS;

PROPERTY VALUES; STATE GOVERNMENT; REGIONAL

ANALYSIS; TABLES (DATA); LOCAL GOVERNMENT

AVAILABILITY: NTIS

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Thuillier, R.H.; Dabberdt, W.P.;

Duffey-Armstrong, H.; Sandys, R.C.

Stanford Research Institute

ADDRESS: Menlo Park, CA 94025

TITLE: A Methodology for Making a Quantitative Assessment of Passenger Transportation Alternatives

Final Report, 137 p.

1977, April 4

SPONSOR: U.S. Dept. of Defense, Naval Facilities

Engineering Command, Office of Naval

Research; Energy Research and Development

Administration

KEYWORDS: PASSENGER TRANSPORTATION;

TRANSPORTATION MODE CHOICE; LAND USE; ENERGY

CONSERVATION; AIR QUALITY; TRAFFIC; ENERGY

CONSUMPTION; COMMUTERS; COSTS; HIGHWAYS;

MODELS; STATISTICS; INPUT-OUTPUT ANALYSIS;

COMMUTING

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Towle, W.L.; Graae, J.E.A.; Chilenskas, A.A.; Iwins, P.O.

Argonne National Laboratory

ADDRESS: 9700 South Cass Ave., Argonne, IL 60439

TITLE: Cost Estimate for the Commercial Manufacture of Lithium/Iron Sulfide Cells for Load-Leveling

Report No. ANL-76-12, 67 p.

1976, March

SPONSOR: Energy Research and Development Administration, Division of Transportation Energy Conservation

KEYWORDS: COSTS; LITHIUM/METAL SULFIDE BATTERIES;

LOAD MANAGEMENT; UTILITIES; MANUFACTURING;

LITHIUM-ALUMINUM/METAL SULFIDE BATTERIES;

PRICES; ECONOMICS; DIAGRAMS

AVAILABILITY: NTIS

<620>
 Trinc Transportation Consultants
 ADDRESS: Suite #200, 475 L'enfant Plaza SW,
 Washington, DC 20024
 TITLE: Trinc's Blue Book of the Trucking
 Industry: 1977 Edition
 Thirty-Third Yearbook, annual publication, 286 p.
 1977
 KEYWORDS: TRUCKS; INDUSTRIAL SECTOR; FINANCIAL
 DATA; STATISTICS; TABLES (DATA); MANPOWER;
 INTERCITY TRANSPORTATION; EQUIPMENT; BALANCE
 SHEETS; EXPENSES; REVENUE; REGIONAL ANALYSIS;
 INCOME

1977, February 25
 SPONSOR: U.S. Dept. of Transportation, Federal
 Highway Administration
 KEYWORDS: COMPARATIVE EVALUATIONS; URBAN
 TRANSPORTATION; TABLES (DATA); REGIONAL
 ANALYSIS; SOCIO-ECONOMIC FACTORS; RAIL
 TRANSPORTATION; POPULATION (STATISTICS);
 COSTS; VEHICLE REGISTRATIONS; BUSES
 (VEHICLES); TRUCKS; AUTOMOBILES; MASS
 TRANSPORTATION; BRUSSELS; CANADA; PARIS;
 MUNICH (GERMAN FEDERAL REPUBLIC); UNITED
 KINGDOM; ITALY; JAPAN; MEXICO CITY; OSLO;
 SPAIN; STOCKHOLM; SWITZERLAND; ATLANTA;
 CHICAGO; DENVER; LOS ANGELES; NEW YORK CITY;
 PHILADELPHIA; SAN FRANCISCO; SEATTLE;
 WASHINGTON DC; REPUBLIC OF KOREA
 AVAILABILITY: NTIS

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 Truck Trailer Manufacturers Association
 ADDRESS: 2430 Pennsylvania Ave. NW, Washington,
 DC 20037
 TITLE: 1977-78 Truck Trailer Manufacturers
 Association Directory
 Annual publication, v.p.
 1978
 KEYWORDS: DIRECTORIES; MANUFACTURERS; TRUCKS;
 TRAILERS; CONTAINERS

<625>
 U.S. Congress
 ADDRESS: Washington, DC
 TITLE: National Traffic and Motor Vehicle Safety
 Act of 1966
 Public Law 89-563, 89th Congress, S. 3005, 13 p.
 1966, September 9
 KEYWORDS: SAFETY; GOVERNMENT POLICIES;
 REGULATIONS; STANDARDS; MOTOR VEHICLES;
 ACCIDENTS; MANUFACTURERS
 AVAILABILITY: House and Senate Document Room,
 Capitol Building, Washington, DC

<622>
 TRW Inc., Energy Systems Planning Division
 ADDRESS: McLean, VA 22101
 TITLE: Allocation of Natural Gas Under Energy
 Emergencies: Analysis of Selected Federal
 Actions

Doc. No. 97461-E001-RU-00, v.p.
 1978, September
 SPONSOR: Oak Ridge National Laboratory
 KEYWORDS: GOVERNMENT POLICIES; ALLOCATIONS;
 NATURAL GAS; RATIONING; ENERGY EMERGENCY
 PLANNING; PIPELINES; ENERGY FLOW; PRODUCTION;
 STATE ANALYSIS; COSTS; FORECASTING; PRICES;
 FUEL SUBSTITUTION; TRANSPORTATION; PROPANE;
 MINNESOTA; OHIO; TABLES (DATA)

<626>
 U.S. Congress
 ADDRESS: Washington, DC
 TITLE: Railroad Revitalization and Regulatory
 Reform Act of 1976
 Public Law 94-210, 94th Congress, S. 2718, 119 p.
 1976, February 5
 KEYWORDS: RAIL TRANSPORTATION; RAILROADS;
 INTERSTATE COMMERCE COMMISSION; REVENUE;
 GOVERNMENT POLICIES; RATES (COSTS);
 FINANCING; REGULATIONS
 AVAILABILITY: House and Senate Document Room,
 Capitol Building, Washington, DC

<623>
 Turner, D.D.
 Business Science Corp.
 ADDRESS: Frederick, MD
 TITLE: Management by Objectives Program of the
 Florida Department of Transportation
 Report presented at the 54th Annual Meeting of
 the Transportation Research Board, published
 in Transportation Research Record 585, 60-67
 1976
 KEYWORDS: MANAGEMENT; FLORIDA; TRANSPORTATION;
 SCHEDULING; STATE GOVERNMENT; PLANNING;
 DECISION MAKING
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$3.60 for Transportation Research Record

<627>
 U.S. Congress
 ADDRESS: Washington, DC
 TITLE: Motor Vehicle Information and Cost Savings
 Act
 Public Law 92-513, 92nd Congress, S. 976, 17 p.
 1972, October 20
 KEYWORDS: PASSENGER TRANSPORTATION; STANDARDS;
 MOTOR VEHICLES; AUTOMOBILES; GOVERNMENT
 POLICIES; REGULATIONS; SAFETY; EQUIPMENT;
 ACCIDENTS; LEGAL ASPECTS; INSURANCE;
 ODOMETERS; BUMPERS
 AVAILABILITY: House and Senate Document Room,
 Capitol Building, Washington, DC

<624>
 Turner, F.C.; Davis, H.E.
 International Road Federation
 ADDRESS: 1023 Washington Building, Washington, DC
 20005
 TITLE: A Comparative Analysis of Urban
 Transportation Requirements, Volumes I and II
 Report No. PB-267788, FHWA-PL-77013, 52 p. for
 Volume I; Report No. PB-267789,
 FHWA-PL-77014, 432 p. for Volume II

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 U.S. Congress
 ADDRESS: Washington, DC
 TITLE: Noise Control Act of 1972
 Public Law 92-574, 92nd Congress, H.R. 11021
 1972, October 27
 KEYWORDS: NOISE POLLUTION; GOVERNMENT POLICIES;
 REGULATIONS; STANDARDS; COMMERCIAL SECTOR;
 EQUIPMENT; AIRCRAFT; LEGAL ASPECTS;
 RAILROADS; MOTOR VEHICLES; INTERSTATE

<628>

<628> CONT.

TRANSPORTATION; TRANSPORTATION
 AVAILABILITY: House and Senate Document Room,
 Capitol Building, Washington, DC

<629>

U.S. Congress
 ADDRESS: Washington, DC
 TITLE: Federal-aid Highway Act of 1976 and
 Highway Safety Act of 1976

Public Law 94-280, 94th Congress, H.R. 8235, 33 p.
 1976, May 5

KEYWORDS: INTERSTATE TRANSPORTATION; HIGHWAYS;
 HIGHWAY TRANSPORTATION; CONSTRUCTION;
 GOVERNMENT POLICIES; APPROPRIATIONS; TRAFFIC
 CONTROL; SAFETY; RAIL TRANSPORTATION; BUSES
 (VEHICLES)

AVAILABILITY: House and Senate Document Room,
 Capitol Building, Washington, DC

<630>

U.S. Congress, Joint Committee on Taxation
 ADDRESS: Washington, DC
 TITLE: Energy Program 8: Energy Tax Proposals
 Relating to Transportation

Congressional Committee Print, 47 p.

1977, June 6

SPONSOR: U.S. House of Representatives, Committee
 on Ways and Means

KEYWORDS: TRANSPORTATION; LEGISLATION; TAXES;
 AUTOMOBILES; ECONOMICS; GASOLINE; FUEL
 CONSUMPTION; INDUSTRIES; REVENUE; ENERGY
 POLICY; ENERGY CONSERVATION; TABLES (DATA);
 INCOME; FUEL ECONOMY

<631>

U.S. Congress, Office of Technology Assessment
 ADDRESS: Washington, DC 20510
 TITLE: Analysis of the Proposed National Energy
 Plan

Report No. OTA-B-51, 248 p.

1977, August

SPONSOR: U.S. House of Representatives, Committee
 on Science and Technology; U.S. House of
 Representatives, Committee on Interior and
 Insular Affairs

KEYWORDS: ENERGY POLICY; PLANNING; LEGISLATION;
 SOCIO-ECONOMIC FACTORS; ENERGY SUPPLIES;
 ENERGY DEMAND; SOCIAL IMPACT; PRICES; FOSSIL
 FUELS; COAL; PETROLEUM; NATURAL GAS; NUCLEAR
 ENERGY; ENERGY CONSERVATION; TABLES (DATA);
 NATIONAL ENERGY PLAN

AVAILABILITY: GPO \$4.00, Stock No.

052-003-00420-8

<632>

U.S. Congress, Office of Technology Assessment
 ADDRESS: Washington, DC 20510
 TITLE: Assessment of Community Planning for Mass
 Transit. Volume I: Summary

Report No. PB-253679, OTA-T-16, 82 p.

1976, February

KEYWORDS: MASS TRANSPORTATION; GOVERNMENT
 POLICIES; URBAN TRANSPORTATION; URBAN AREAS;
 PLANNING; TECHNOLOGY ASSESSMENT; FINANCING;
 PHOTOGRAPHS; TABLES (DATA); STATE ANALYSIS

AVAILABILITY: NTIS

<633>

U.S. Dept. of Commerce, Bureau of Economic
 Analysis
 ADDRESS: Washington, DC
 TITLE: 1975 Business Statistics. Twentieth
 Biennial Edition

Biennial supplement to the Survey of Current
 Business, v.p.
 1976, May

KEYWORDS: STATISTICS; INCOME; PRICES; FINANCIAL
 DATA; TRADE; CONSTRUCTION; EMPLOYMENT;
 INTERNATIONAL TRADE; TRANSPORTATION; ELECTRIC
 POWER; NATURAL GAS; PETROLEUM; COAL; TABLES
 (DATA); INDUSTRIES; EARNINGS

AVAILABILITY: GPO \$5.10

<634>

U.S. Dept. of Commerce, Bureau of the Census
 ADDRESS: Washington, DC
 TITLE: 1967 Census of Transportation. Commodity
 Transportation Survey - Commodity Groups:
 Part 2, Selected Major TCC 3-Digit Classes

Report No. TC67-C3-2, 373 p.

1970, June

KEYWORDS: TRUCKS; CARGO TRANSPORTATION;
 MANUFACTURERS; INDUSTRIES; COMMODITIES;
 DISTRIBUTION; TABLES (DATA); WEIGHT

AVAILABILITY: GPO \$2.75

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U.S. Dept. of Commerce, Bureau of the Census
 ADDRESS: Washington, DC
 TITLE: 1967 Census of Transportation. Commodity
 Transportation Survey - Traffic Patterns of
 Small Manufacturing Plants

Report No. TC67-C3-4, 39 p.

1970

KEYWORDS: TRAFFIC; CENSUS; MANUFACTURING;
 INDUSTRIES; COMMODITIES; REGIONAL ANALYSIS;
 TABLES (DATA); CARGO TRANSPORTATION; TRUCKS

AVAILABILITY: GPO \$0.50

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U.S. Dept. of Commerce, Bureau of the Census
 ADDRESS: Washington, DC
 TITLE: Domestic and International Transportation
 of U.S. Foreign Trade: 1970

1972, September

SPONSOR: U.S. Dept. of Transportation, Office of
 the Secretary, Office of Systems Analysis and
 Information; U.S. Dept. of Defense, Army
 Corps of Engineers, Institute for Water
 Resources

KEYWORDS: INTERNATIONAL TRAVEL; INTERNATIONAL
 TRADE; TRANSPORTATION; COMMODITIES; CARGO
 TRANSPORTATION; SURVEYS; TABLES (DATA);
 GRAPHS (CHARTS); WEIGHT; WATER
 TRANSPORTATION; AIR TRANSPORTATION; MARINE
 TRANSPORTATION; MAPS; EXPORTS; IMPORTS;
 REGIONAL ANALYSIS; QUESTIONNAIRES; DISTANCE

AVAILABILITY: GPO

<637>

U.S. Dept. of Commerce, Bureau of the Census,
 Business Division
 ADDRESS: Washington, DC
 TITLE: 1972 Census of Wholesale Trade. Subject
 Series: Petroleum Bulk Stations and Terminals

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Series No. WC72-3-2, 157 p.
1975, October

KEYWORDS: PETROLEUM; PETROLEUM PRODUCTS; STATE ANALYSIS; STORAGE; CAPACITY; REGIONAL ANALYSIS; LIQUEFIED PETROLEUM GASES; TABLES (DATA); STATISTICS; SALES; WHOLESALE TRADE; RETAIL TRADE; CAPITAL COSTS; TRANSPORTATION AVAILABILITY: GPO

<638>

U.S. Dept. of Commerce, Bureau of the Census,
Foreign Trade Division

ADDRESS: Washington, DC 20233

TITLE: United States Foreign Trade: Bunker Fuels. Oil and Coal Laden in the United States on Vessels Engaged in Foreign Trade

Annual and Monthly reports, Foreign Trade Series 810, v.p.

KEYWORDS: COAL; INTERNATIONAL TRADE; DIESEL FUELS; MARINE TRANSPORTATION; FUEL OIL; USA; ENERGY CONSUMPTION; IMPORTS; EXPORTS; PETROLEUM; TABLES (DATA); HARBORS; STATISTICS; WATER TRANSPORTATION; SHIPS

<639>

U.S. Dept. of Commerce, Bureau of the Census,
Industry Division

ADDRESS: Washington, DC

TITLE: Annual Survey of Oil and Gas: 1976

Current Industrial Reports, Series No.

CA-134 (76)-1, 45 p.

1977, December

KEYWORDS: PETROLEUM; NATURAL GAS; REVENUE; SALES; STATISTICS; EXPENDITURES; PRODUCTION; EXPLORATION; GAS WELLS; OIL WELLS; GRAPHS (CHARTS); TABLES (DATA); SALES; LEASES; FINANCIAL DATA; PETROLEUM INDUSTRY

AVAILABILITY: Subscriber Services Section, Bureau of the Census, Washington, DC 20233 \$0.70

<640>

U.S. Dept. of Commerce, Bureau of the Census,
Population Division

ADDRESS: Washington, DC

TITLE: Consumer Income: Money Income and Poverty Status in 1975 of Families and Persons in the United States and the North Central Region, by Divisions and States (Spring 1976 Survey of Income and Education)

Current Population Reports, Series No. P-60, No. 111, 209 p.

1978, April

KEYWORDS: CONSUMERS; INCOME; REGIONAL ANALYSIS; STATE ANALYSIS; POPULATION (STATISTICS); AGE GROUPS; RACE; POVERTY; SEX

AVAILABILITY: GPO

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U.S. Dept. of Commerce, Industry and Trade
Administration

ADDRESS: Washington, DC

TITLE: 1978 U.S. Industrial Outlook with 5-year Projections for 200 Industries

479 p.

1978, January

KEYWORDS: INDUSTRIAL SECTOR; CONSTRUCTION INDUSTRY; MATERIALS; COMMERCIAL SECTOR; MANUFACTURING; FORECASTING; GROWTH; LUMBER INDUSTRY; PAPER INDUSTRY; METAL INDUSTRY;

<637>

TRANSPORTATION; TABLES (DATA); GRAPHS (CHARTS); CHEMICAL INDUSTRY; MARKETING; WHOLESALE TRADE; RETAIL TRADE; HOUSEHOLD GOODS; COMMUNICATION; MACHINERY; ELECTRICAL EQUIPMENT

AVAILABILITY: GPO, Stock No. 003-008-00179-3

<642>

U.S. Dept. of Commerce, Maritime Administration,
Office of Subsidy Administration

ADDRESS: Washington, DC

TITLE: Merchant Fleets of the World: Oceangoing Steam and Motor Ships of 1,000 Gross Tons and Over as of December 31, 1975

Annual report, Report No. MAR-560-20, 47 p.
1976, September

KEYWORDS: MARINE TRANSPORTATION; TONNAGE; INTERNATIONAL ANALYSIS; TANKER SHIPS; SHIPS; CARGO TRANSPORTATION; TABLES (DATA); INVENTORIES

<643>

U.S. Dept. of Commerce, Maritime Administration,
Office of Trade Studies and Statistics

ADDRESS: Washington, DC

TITLE: A Statistical Analysis of the World's Merchant Fleets Showing Age, Size, Speed, and Draft by Frequency Grouping as of December 31, 1976

372 p.

1977

KEYWORDS: WATER TRANSPORTATION; CARGO TRANSPORTATION; STATISTICS; INTERNATIONAL ANALYSIS; PASSENGER TRANSPORTATION; SHIPS; TONNAGE; MARINE TRANSPORTATION; WEIGHT

AVAILABILITY: GPO, Stock No. 003-007-00083-9

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U.S. Dept. of Defense, Army Corps of Engineers

ADDRESS: Vicksburg, MS

TITLE: Waterborne Commerce of the United States: Calendar Year 1976. Parts 1-5

Annual publication. v.p.

1978

KEYWORDS: WATER TRANSPORTATION; TABLES (DATA); STATISTICS; COMMERCE; WATERWAY TRANSPORTATION; REGIONAL ANALYSIS; STATE ANALYSIS; TRADE; TRAFFIC; HARBORS; COASTS; BARGES; INTERNATIONAL TRADE

AVAILABILITY: U.S. Army Engineering Division, New England, 424 Trapelo Road, Waltham, MA 02154

<645>

U.S. Dept. of Defense, Civil Preparedness Agency

ADDRESS: Washington, DC

TITLE: Energy Emergencies

Report No. CPG 1-28, v.p.

1977, January

KEYWORDS: ENERGY EMERGENCY PLANNING; HEALTH; SAFETY; SPACE HEATING; ELECTRIC POWER DEMAND; NATURAL GAS; STATE GOVERNMENT; FUEL CONSUMPTION; ALLOCATIONS; FUEL ECONOMY; ENERGY CONSERVATION; RESIDENTIAL SECTOR; TRANSPORTATION

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U.S. Dept. of Energy
ADDRESS: Washington, DC 20585
TITLE: Electric and Hybrid Vehicle Program:
Small Business Planning Grants

Program Announcement No. EM-78-N-01-4205, 45 p.
1978

KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; US DOE; FUNDING;
PLANNING; RESEARCH

<647>

U.S. Dept. of Energy, Assistant Secretary for
Conservation and Solar Applications; U.S.
Dept. of Energy, Assistant Secretary for
Environment

ADDRESS: Washington, DC
TITLE: Environmental Development Plan (EDP):
Transportation Energy Conservation, FY 1977

Report No. DOE/EDP-0018, 163 p.
1978, March

KEYWORDS: PLANNING; TECHNOLOGY; TRANSPORTATION;
HIGHWAY TRANSPORTATION; ELECTRIC VEHICLES;
ENGINES; HYBRID ELECTRIC-POWERED VEHICLES;
ALTERNATE FUELS; SYNTHETIC FUELS; MITIGATION;
HEALTH; SAFETY; ENVIRONMENTAL IMPACT;
DIAGRAMS; STIRLING ENGINES; GAS TURBINE
ENGINES; PIPELINE TRANSPORTATION; STRATIFIED
CHARGE ENGINES; DRIVING CYCLE; FUEL
CONSUMPTION; COMPARATIVE EVALUATIONS
AVAILABILITY: NTIS

<648>

U.S. Dept. of Energy, Assistant Secretary for
Conservation and Solar Applications, Office
of Business Assistance Programs
ADDRESS: Washington, DC 20545
TITLE: Voluntary Business Energy Conservation
Program: Progress Report No. 6

Semi-annual report, Report No. DOE/CS-0018/6, 160
p.

1978, April
KEYWORDS: INDUSTRIES; INDUSTRIAL SECTOR; ENERGY
CONSERVATION; ENERGY CONSUMPTION; AVIATION;
AUTOMOTIVE INDUSTRY; AGRICULTURE;
CONSTRUCTION INDUSTRY; ENERGY DEMAND; AIR
CONDITIONING; FUELS; GRAPHS (CHARTS)
AVAILABILITY: GPO, Stock No. 061-000-00052-6

<649>

U.S. Dept. of Energy, Assistant Secretary for
Conservation and Solar Applications,
Transportation Programs Office
ADDRESS: Washington, DC 20545
TITLE: Proceedings of the Workshop on Urban
Freight Consolidation

Report No. CONF-760165, Proceedings of the
Workshop held January 13-14, 1976 in
Knoxville, TN, 187 p.

1978, June
SPONSOR: U.S. Dept. of Transportation; Federal
Energy Administration; Tennessee, University
of

KEYWORDS: CARGO TRANSPORTATION; PLANNING; DEMAND
(ECONOMICS); URBAN TRANSPORTATION; RAIL
TRANSPORTATION; INTERNATIONAL TRADE; TRUCKS;
TABLES (DATA); GRAPHS (CHARTS); WATER
TRANSPORTATION; COMMODITIES; RATES (COSTS);
SHIPMENTS; LAND USE; SOCIO-ECONOMIC FACTORS;
ENVIRONMENTAL IMPACT; GOVERNMENT POLICIES;
EMPLOYMENT

<650>

U.S. Dept. of Energy, Assistant Secretary for
Energy Technology
ADDRESS: Washington, DC
TITLE: Market Oriented Program Planning Study
(MOPPS). Volume 1: Integrated Summary

Review Draft, Report No. DOE/ET-0010/1(D), 399 p.
1977, December

KEYWORDS: RESIDENTIAL SECTOR; COMMERCIAL SECTOR;
TRANSPORTATION; INDUSTRIAL SECTOR;
ENVIRONMENTAL IMPACT; SUPPLY (ECONOMICS);
TABLES (DATA); TECHNOLOGY ASSESSMENT; FOSSIL
FUELS; COAL; SOLAR ENERGY; ENERGY
CONSERVATION; ENERGY SUPPLIES; DEMAND
(ECONOMICS); PLANNING; MARKET; ENERGY
CONSUMPTION; NATURAL GAS; PETROLEUM; ELECTRIC
POWER GENERATION; HEALTH; SAFETY; COMPARATIVE
EVALUATIONS; GRAPHS (CHARTS); RESEARCH;
COMMERCIALIZATION; FORECASTING

<651>

U.S. Dept. of Energy, Assistant Secretary for
Environment; U.S. Dept. of Energy, Office of
Technology Impacts; U.S. Dept. of Energy,
Office of Planning Coordination

ADDRESS: Washington, DC
TITLE: Environmental Development Plan (EDP):
Summary and Status of Environmental
Development Plans, FY 1978

Report No. DOE/EDP-0025, 83 p.
1978, April

KEYWORDS: SOLAR ENERGY; GEOTHERMAL ENERGY; FOSSIL
FUELS; COAL GASIFICATION; ENERGY
CONSERVATION; COAL LIQUEFACTION; TECHNOLOGY;
AERODYNAMICS; COMBUSTION; COAL;
NUCLEAR ENERGY; BIONASS; UNCONVENTIONAL
ENERGY SOURCES; PHOTOVOLTAIC CONVERSION; AIR
POLLUTION; WATER POLLUTION; BUILDINGS;
INDUSTRIAL SECTOR; TRANSPORTATION; HEALTH;
SAFETY; SOCIO-ECONOMIC FACTORS; ENVIRONMENTAL
IMPACT; ELECTRIC POWER; OCEAN THERMAL ENERGY
CONVERSION
AVAILABILITY: NTIS

<652>

U.S. Dept. of Energy, Division of Transportation
Energy Conservation
ADDRESS: Washington, DC
TITLE: The First Annual Report to Congress on the
Implementation of Public Law 94-413: The
Electric and Hybrid Vehicle Research,
Development and Demonstration Act of 1976

Report No. DOE/CS-0002/1, 78 p.
1977, December

KEYWORDS: ELECTRIC VEHICLES; RESEARCH PROGRAMS;
RESEARCH; DEVELOPMENT; US DOE; GOVERNMENT
POLICIES; DEMONSTRATION; INDUSTRIES
AVAILABILITY: GPO, Stock No. 061-000-00024-1

<653>

U.S. Dept. of Energy, Division of Transportation
Energy Conservation
ADDRESS: Washington, DC 20545
TITLE: Program Planning Document: Highway
Vehicle Alternative Fuels Utilization Program
(AFUP)

Report No. DOE/CS-0029, v.p.
1978, April

KEYWORDS: ALTERNATE FUELS; HIGHWAY
TRANSPORTATION; UTILIZATION; ENERGY
CONSUMPTION; SYNTHETIC FUELS; FUNDING;
RESEARCH; PETROLEUM; TECHNOLOGY ASSESSMENT;

<653> CONT.
GRAPHS (CHARTS)

ADDRESS: Washington, DC
TITLE: Preliminary Findings and Views Concerning the Exemption of Kerojet Fuels from the Mandatory Petroleum Allocation and Price Regulations

<654>
U.S. Dept. of Energy, Division of Transportation
Energy Conservation
ADDRESS: Washington, DC
TITLE: Alternative Fuels Utilization Report

Report No. DOE/ERA-0002, 104 p.
1978, January
KEYWORDS: AIR TRANSPORTATION; ENERGY DEMAND; HISTORY; ENERGY SUPPLIES; COSTS; PETROLEUM; TABLES (DATA); AVIATION FUELS; TURBINES; KEROSENE; ECONOMIC IMPACT; IMPORTS; DISTRIBUTION; FORECASTING; REFINERIES; MILITARY UTILIZATION; TRANSPORTATION; REGULATIONS; PRICES; MARKET; ALLOCATIONS

Report No. DOE/CS-0022, v.p.
Irregular Publication
KEYWORDS: ALTERNATE FUELS; UTILIZATION; US DOE; INTERNATIONAL ANALYSIS; TRANSPORTATION; PLANNING

<659>
U.S. Dept. of Energy, Economic Regulatory Administration, Office of Regulations and Emergency Planning
ADDRESS: Washington, DC 20461
TITLE: Findings and Views Concerning the Exemption of Motor Gasoline From the Mandatory Petroleum Allocation and Price Regulations: Supplement to September 1977 Report

<655>
U.S. Dept. of Energy, Division of Transportation
Energy Conservation
ADDRESS: Washington, DC
TITLE: Electric and Hybrid Vehicle Demonstration: 1978

Report No. DOE/ERA-0012, 72 p.
1978, May
KEYWORDS: GASOLINE; PETROLEUM; ALLOCATIONS; REGULATIONS; EMERGENCY ENERGY PLANNING; GOVERNMENT POLICIES; ENERGY SHORTAGES; ENERGY DEMAND; PRICES; HISTORY; FUEL CONSUMPTION; MARKET; TABLES (DATA); SALES; FORECASTING; ENERGY SUPPLIES; PETROLEUM REFINERIES

Report No. DOE/CS-0046, 13 p.
1978
KEYWORDS: ELECTRIC VEHICLES; HYBRID ELECTRIC-POWERED VEHICLES; US DOE; MARKET; DEMONSTRATION; UTILIZATION; ELECTRIC VEHICLE RANGE; RESEARCH
AVAILABILITY: GPO, Stock No. 061-000-00171-9

<656>
U.S. Dept. of Energy, Division of Transportation
Energy Conservation, Office of Highway Vehicle Systems
ADDRESS: Washington, DC
TITLE: Highway Vehicle Systems Contractors Coordination Meeting

<660>
U.S. Dept. of Energy, Economic Regulatory Administration, Office of Regulations and Emergency Planning
ADDRESS: Washington, DC
TITLE: Environmental Assessment of the Exemption of Motor Gasoline from the Mandatory Allocation and Price Regulations

Thirteenth Summary Report, Report No. CONF-771037, proceedings of a conference held October 4-6, 1977, Dearborn, Michigan, 430 p.
1978, March
KEYWORDS: CONFERENCES; AUTOMOTIVE ENGINES; US DOE; GAS TURBINE ENGINES; HEAT ENGINES; NASA; FUEL ECONOMY; PASSENGER TRANSPORTATION; HEAT EXCHANGERS; STIRLING ENGINES; DESIGN; ALTERNATE FUELS; TRANSPORTATION; ENERGY CONSERVATION; DIAGRAMS; PHOTOGRAPHS; GRAPHS (CHARTS)
AVAILABILITY: NTIS

34 p.
1978, May
KEYWORDS: ENVIRONMENTAL IMPACT; ALLOCATIONS; REGULATIONS; GASOLINE; GOVERNMENT POLICIES; PRICES; VEHICLES; ENERGY POLICY; REGIONAL ANALYSIS; WATER QUALITY; AIR QUALITY

<657>
U.S. Dept. of Energy, Economic Regulatory Administration
ADDRESS: Washington, DC
TITLE: Notice of Proposed Rulemaking and Public Hearing to Establish Contingency Gasoline Rationing Plan

<661>
U.S. Dept. of Energy, Economic Regulatory Administration, Office of Regulations and Emergency Planning, Major Emergency Programs Division
ADDRESS: Washington, DC
TITLE: Economic and Regulatory Analysis of the Proposed Standby Gasoline Rationing Plan

10 CFR Part 500, 107 p.
KEYWORDS: GASOLINE; GOVERNMENT POLICIES; HEARINGS; VEHICLES; ALLOCATIONS; CONSUMERS; DIESEL FUELS; PURCHASING; AUTOMOBILES; ECONOMIC ANALYSIS; REGULATIONS; RATIONING; PLANNING; SHORTAGES; STATE ANALYSIS; ENERGY EMERGENCY PLANNING; PUBLIC SERVICES; PRICES

Draft Report, 279 p.
1978, April 13
KEYWORDS: INDUSTRIAL SECTOR; STATE ANALYSIS; COMPETITION; TABLES (DATA); US DOE; SALES; ECONOMIC IMPACT; REGIONAL ANALYSIS; FUEL CONSUMPTION; GASOLINE; ENERGY SHORTAGES; PRICES; REGULATIONS; PETROLEUM; ALLOCATIONS; FORECASTING; ECONOMIC ANALYSIS; GROSS NATIONAL PRODUCT; EMPLOYMENT; INCOME; TRANSPORTATION

<658>
U.S. Dept. of Energy, Economic Regulatory Administration

<662>
U.S. Dept. of Energy, Energy Information

<662>

<662> CONT.

Administration
 ADDRESS: Washington, DC 20461
 TITLE: Energy Information Administration Annual Report to Congress: 1977. Volume I

Report No. DOE/EIA-00036/1, 106 p.
 1978, February

KEYWORDS: US DOE; DATA ACQUISITION; ENERGY SUPPLIES; ENERGY DEMAND; SYSTEMS ANALYSIS; HISTORY

<663>

U.S. Dept. of Energy, Energy Information Administration
 ADDRESS: Washington, DC
 TITLE: 1977 Energy Information Administration Annual Report to Congress. Volume II: Projections of Energy Supply and Demand and Their Impacts. (Also Executive Summary)

Report No. DOE/EIA-0036/2 (EX SUP), 24 p.; Report No. DOE/EIA-0036/2, 296 p.
 1978

KEYWORDS: FORECASTING; ENERGY DEMAND; ENERGY SUPPLIES; IMPORTS; TABLES (DATA); AIR POLLUTION; GROWTH; GRAPHS (CHARTS); HISTORY; COMPETITION; REGULATIONS; INTERNATIONAL ANALYSIS; PRICES; RESIDENTIAL SECTOR; TRANSPORTATION; COMMERCIAL SECTOR; INDUSTRIAL SECTOR; ENERGY CONSUMPTION; ENERGY SOURCES; PETROLEUM; NATURAL GAS; NUCLEAR FUELS; ELECTRIC POWER; UNCONVENTIONAL ENERGY SOURCES; ALTERNATE FUELS; ECONOMIC ANALYSIS; ECONOMIC IMPACT; ENVIRONMENTAL IMPACT

<664>

U.S. Dept. of Energy, Energy Information Administration
 ADDRESS: Washington, DC
 TITLE: Energy Information Administration Annual Report to Congress. Volume III: Statistics and Trends of Energy Supply, Demand, and Prices

Report No. DOE/EIA-0036/3, Volume III of 3 volumes, 145 p.
 1978, May

KEYWORDS: TRANSPORTATION; STATISTICS; TABLES (DATA); TRENDS; HISTORY; CONSUMERS; ENERGY CONSUMPTION; ENERGY SUPPLIES; NATURAL GAS; PETROLEUM; FOSSIL FUELS; EXPORTS; IMPORTS; GASOLINE; SALES; GEOTHERMAL POWER GENERATION; SOLAR ENERGY; DIESEL FUELS; RESIDENTIAL SECTOR; PRICES; ELECTRIC POWER; NUCLEAR ENERGY; GRAPHS (CHARTS)
 AVAILABILITY: GPO

<665>

U.S. Dept. of Energy, Energy Information Administration, Office of Energy Data and Interpretation
 ADDRESS: Washington, DC 20461
 TITLE: Supply, Demand, and Stocks of All Oils by P.A.D. Districts and Imports into the United States, by Country: 1977

Annual Report, Energy Data Reports (formerly Mineral Industry Surveys), 10 p.
 1978, May 31

KEYWORDS: PETROLEUM; IMPORTS; PRODUCTION; REGIONAL ANALYSIS; PETROLEUM PRODUCTS; ENERGY DEMAND; TABLES (DATA)

<666>

U.S. Dept. of Energy, Nevada Operations Office
 ADDRESS: Las Vegas, NV
 TITLE: Driver Aid and Education Test Project. Final Report

Report No. DOE/CS-0043, v.p.
 1978, July

SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation
 KEYWORDS: AUTOMOBILE DRIVERS; EDUCATION; AUTOMOTIVE FUELS; FUEL ECONOMY; AUTOMOBILES; TRUCKS; TESTING; MEASURING INSTRUMENTS; DRIVING CYCLE; FEEDBACK; TABLES (DATA); GRAPHS (CHARTS); MONTHLY VARIATIONS
 AVAILABILITY: NTIS

<667>

U.S. Dept. of Energy, Office of Public Affairs
 ADDRESS: Washington, DC 20461
 TITLE: DOE Proposes Emergency Gasoline Rationing Plan

Department of Energy Information Press Release,
 E-78-219, 8 p.
 1978, June 22

KEYWORDS: RATIONING; HEARINGS; ENERGY POLICY; GASOLINE; ALLOCATIONS; SALES; MARKETING; VEHICLES; PETROLEUM; GOVERNMENT POLICIES; AUTOMOBILES; PUBLIC SERVICES; CONSUMERS; PLANNING; ENERGY POLICY AND CONSERVATION ACT; ENERGY EMERGENCY PLANNING

<668>

U.S. Dept. of Energy, Office of the Under Secretary, Task Force on Alcohol Fuels
 ADDRESS: Washington, DC 20545
 TITLE: Alcohol Fuels Program Plan

Report No. DOE/US-0001/2, v.p.
 1978, March

KEYWORDS: ALCOHOLS; ETHANOL; METHANOL; LIQUID FUELS; ALTERNATE FUELS; SOCIO-ECONOMIC FACTORS; INDUSTRIAL SECTOR; PRICES; ECONOMIC ANALYSIS; ENERGY RESOURCES; PETROLEUM; ENERGY EMERGENCY PLANNING; COAL; BIOMASS; SOLID WASTES; PLANNING; UTILIZATION; RESEARCH; ENVIRONMENTAL IMPACT; TABLES (DATA)
 AVAILABILITY: GPO, Stock No. 061-000-00064-0

<669>

U.S. Dept. of Energy, Office of the Under Secretary, Task Force on Alcohol Fuels
 ADDRESS: Washington, DC 20545
 TITLE: Department of Energy Position Paper on Alcohol Fuels

Report No. DOE/US-0001/1, v.p.
 1978, March

KEYWORDS: ALCOHOL FUELS; ALTERNATE FUELS; US DOE; ETHANOL; METHANOL; COMMERCIALIZATION; PRODUCTION; FUEL CONSUMPTION; COSTS; UTILIZATION; PLANNING; RESEARCH; GOVERNMENT POLICIES

<670>

U.S. Dept. of Interior, Bureau of Mines
 ADDRESS: Washington, DC
 TITLE: Minerals Yearbook: 1975. Volume 1. Metals, Minerals, and Fuels

Annual report, 1550 p.
 1977

KEYWORDS: MINERALS; STATISTICS; TABLES (DATA);

<670> CONT.

METALS; FOSSIL FUELS; PRODUCTION; MINING;
 EXTRACTION; INDUSTRIES; COAL; NATURAL GAS;
 PETROLEUM PRODUCTS; URANIUM; STATE ANALYSIS;
 REGIONAL ANALYSIS; INTERNATIONAL TRADE
 AVAILABILITY: GPO, Stock No. 024-004-01922-1

<671>

U.S. Dept. of Interior, Bureau of Mines
 ADDRESS: Washington, DC
 TITLE: Minerals in the U.S. Economy: Ten-Year
 Supply-Demand Profiles for Mineral and Fuel
 Commodities (1966-75)

99 p.

1977

KEYWORDS: MINERALS; FUELS; RESOURCES; TABLES
 (DATA); SUPPLY (ECONOMICS); DEMAND
 (ECONOMICS); METALS; ENERGY SUPPLIES;
 COMMODITIES; TABLES (DATA); ENERGY SOURCES
 AVAILABILITY: GPO

<672>

U.S. Dept. of Interior, Bureau of Mines
 ADDRESS: Washington, DC
 TITLE: Status of the Mineral Industries: 1977

46 p.

1977

KEYWORDS: MINERALS; INDUSTRIES; MINING; METALS;
 GRAPHS (CHARTS); STEELS; PRODUCTION;
 ALUMINUM; TRANSPORTATION; ECONOMICS;
 PETROLEUM REFINING; IMPORTS; EXPORTS;
 INTERNATIONAL TRADE; CONSTRUCTION MATERIALS;
 ENERGY RESOURCES; COAL; PETROLEUM; NUCLEAR
 FUELS; NATURAL GAS; URANIUM; IRON;
 RECLAMATION; PLASTICS

<673>

U.S. Dept. of Interior, Bureau of Mines, Division
 of Fuels Data
 ADDRESS: Washington, DC 20241
 TITLE: Mineral Industry Surveys: Petroleum
 Refineries in the United States and Puerto
 Rico, January 1, 1977

Annual report, 17 p.

1977, July 18

KEYWORDS: PETROLEUM; PUERTO RICO; PETROLEUM
 REFINERIES; PRODUCTION; CAPACITY;
 DISTILLATION; REGIONAL ANALYSIS; TABLES
 (DATA); CONSTRUCTION; STATE ANALYSIS

<674>

U.S. Dept. of Transportation
 ADDRESS: Washington, DC
 TITLE: U.S. Dept. of Transportation Fiscal Year
 1979 Budget in Brief

18 p.

1978, January

KEYWORDS: BUDGETS; GOVERNMENT POLICIES;
 TRANSPORTATION; TABLES (DATA); RAIL
 TRANSPORTATION; HIGHWAY TRANSPORTATION; AIR
 TRANSPORTATION; LEGISLATION; SAFETY; URBAN
 TRANSPORTATION; MASS TRANSPORTATION

<675>

U.S. Dept. of Transportation
 ADDRESS: Washington, DC 20590

TITLE: U.S. Department of Transportation. 10th
 Annual Report: Fiscal Year 1976

Annual Report for Fiscal Year 1976, 97 p.
 1978

KEYWORDS: US DOT; TRANSPORTATION; TABLES (DATA);
 WATER TRANSPORTATION; AIR TRANSPORTATION;
 RAIL TRANSPORTATION; HIGHWAY TRANSPORTATION;
 MASS TRANSPORTATION; MATERIALS; SAFETY;
 RAILROADS

AVAILABILITY: GPO, Stock No. 500-000-00137-7

<676>

U.S. Dept. of Transportation; U.S. Environmental
 Protection Agency
 ADDRESS: Washington, DC

TITLE: Study of Potential for Motor Vehicle Fuel
 Economy Improvement: Fuel Economy Test
 Procedures Panel Report

Report No. 6, 75 p.

1975, January 10

KEYWORDS: FUEL ECONOMY; MOTOR VEHICLES; FUEL
 CONSUMPTION; TESTING; TABLES (DATA);
 AUTOMOBILE TRANSMISSIONS; URBAN
 TRANSPORTATION; WEIGHT; SPEED LIMITS;
 INTERSTATE TRANSPORTATION; HISTORY;
 AUTOMOTIVE EMISSIONS; AUTOMOBILES; WEATHER;
 DRIVING CYCLE

<677>

U.S. Dept. of Transportation; U.S. Environmental
 Protection Agency
 ADDRESS: Washington, DC

TITLE: Study of Potential for Motor Vehicle Fuel
 Economy Improvement: Safety Implications
 Panel Report

Report No. 2, 45 p.

1975, January 10

KEYWORDS: FUEL ECONOMY; WEIGHT; SPEED LIMITS;
 SAFETY; AUTOMOBILES; TRANSPORTATION;
 STATISTICS; TABLES (DATA); URBAN AREAS;
 INJURIES; STATE ANALYSIS; HISTORY; SALES;
 MANUFACTURERS; RURAL AREAS; AUTOMOTIVE
 ENGINES; TRAFFIC CONTROL; ACCIDENTS;
 PERFORMANCE; DRIVING CYCLE

<678>

U.S. Dept. of Transportation; U.S. Environmental
 Protection Agency
 ADDRESS: Washington, DC

TITLE: Study of Potential for Motor Vehicle Fuel
 Economy Improvement: Air Quality and
 Emissions Panel Report

Report No. 3, 54 p.

1975, January 10

KEYWORDS: FUEL ECONOMY; MILEAGE; AUTOMOTIVE
 EMISSIONS; AIR QUALITY; DIESEL ENGINES;
 TABLES (DATA); TRUCKS; FORECASTING; GROWTH;
 HYDROCARBONS; CARBON MONOXIDE; NITROGEN
 OXIDES; AUTOMOBILES; HISTORY; GASOLINE;
 MODELS; TRANSPORTATION

<679>

U.S. Dept. of Transportation, Coast Guard
 ADDRESS: Washington, DC 20590
 TITLE: Boating Statistics: 1977

Nineteenth annual report, Report No. CG-357, 41 p.
 1978, May 1

KEYWORDS: BOATS; SAFETY; ACCIDENTS; STATE
 ANALYSIS; TABLES (DATA)

<680>

<680>

U.S. Dept. of Transportation, Coast Guard
 ADDRESS: Washington, DC
 TITLE: Recreational Boating in the Continental
 United States in 1973 and 1976: The
 Nationwide Boating Survey

Report No. AD-A052907, CG-B-003-78, v.p.
 1978, March

KEYWORDS: RECREATION; TRANSPORTATION; BOATS;
 SAFETY; SURVEYS; QUESTIONNAIRES;
 COMMUNICATION; EQUIPMENT; ACCIDENTS; WATER
 TRANSPORTATION; MAPS; TABLES (DATA)
 AVAILABILITY: NTIS

<681>

U.S. Dept. of Transportation, Coast Guard, Marine
 Safety Council
 ADDRESS: Washington, DC
 TITLE: Final Environmental Impact Statement:
 Regulations for U.S. Tank Vessels Carrying
 Oil in Foreign Trade and Foreign Tank Vessels
 that Enter the Navigable Waters of the United
 States

Final Report, 131 p.
 1976, October

KEYWORDS: POLLUTION REGULATIONS; MARINE
 TRANSPORTATION; INTERNATIONAL TRADE;
 PETROLEUM; TANKER SHIPS; WATER POLLUTION;
 ENVIRONMENTAL IMPACT; CONSTRUCTION; DESIGN;
 ECONOMIC IMPACT

<682>

U.S. Dept. of Transportation, Federal Aviation
 Administration
 ADDRESS: Washington, DC 20591
 TITLE: Report to Congress by the Federal Aviation
 Administration on the Energy Efficiency of
 Agency Regulations

Report No. AD/A-034611, 120 p.
 1976, December

KEYWORDS: AVIATION FUELS; AIR TRANSPORTATION;
 AIRCRAFT; TRAFFIC; REGULATIONS; FUEL
 CONSUMPTION; TESTING; NOISE (SOUND); AIR
 POLLUTION CONTROL EQUIPMENT; VELOCITY;
 EQUIPMENT; FUEL ECONOMY; EFFICIENCY
 AVAILABILITY: NTIS

<683>

U.S. Dept. of Transportation, Federal Aviation
 Administration, Office of Aviation Policy
 ADDRESS: Washington, DC 20591
 TITLE: Aviation Forecasts - Fiscal Years 1978-1989

Report No. FAA-AVP-77-32, 169 p.
 1977, September

KEYWORDS: FORECASTING; AVIATION; STATISTICS;
 AIRCRAFT; SOCIO-ECONOMIC FACTORS; COMMUTING;
 ECONOMETRIC MODELS; AIR TRANSPORTATION;
 PHOTOGRAPHS; REGIONAL ANALYSIS; REVENUE;
 PASSENGER TRANSPORTATION; CARGO
 TRANSPORTATION; TABLES (DATA); GRAPHS
 (CHARTS); MATHEMATICAL MODELS; AIRPORTS

<684>

U.S. Dept. of Transportation, Federal Aviation
 Administration, Office of Aviation Policy
 ADDRESS: Washington, DC 20591
 TITLE: Terminal Area Forecast - 1978-1988

Report No. FAA-AVP-77-17, v.p.
 1977, April 8

KEYWORDS: FORECASTING; PASSENGER ENPLANEMENTS;
 AIRPORTS; MAPS; REGIONAL ANALYSIS; TABLES
 (DATA); GROWTH; AIR TRANSPORTATION; AVIATION
 AVAILABILITY: NTIS

<685>

U.S. Dept. of Transportation, Federal Aviation
 Administration, Office of Aviation Policy
 ADDRESS: Washington, DC 20591
 TITLE: Third Annual FAA Forecast Conference
 Proceedings

Report No. FAA-AVP-78-7, proceedings of
 conference held in Reston, Virginia, December
 1977, 68 p.
 1978, June

KEYWORDS: FORECASTING; AIR TRANSPORTATION;
 FEDERAL AVIATION ADMINISTRATION; PLANNING;
 STATE GOVERNMENT; LOCAL GOVERNMENT;
 COMMUTERS; CONFERENCES

<686>

U.S. Dept. of Transportation, Federal Aviation
 Administration, Office of Aviation Policy,
 Aviation Forecast Branch
 ADDRESS: Washington, DC 20591
 TITLE: Profiles of International Passengers at
 U.S. Airports, 1976

Report No. FAA-AVP-77-27, 319 p.
 1977, April

KEYWORDS: AIRPORTS; INTERNATIONAL TRAVEL;
 PASSENGER TRANSPORTATION; AIR TRANSPORTATION;
 TABLES (DATA); GRAPHS (CHARTS); PASSENGER
 ENPLANEMENTS; REGIONAL ANALYSIS

<687>

U.S. Dept. of Transportation, Federal Aviation
 Administration, Office of Management Systems,
 Information and Statistics Division
 ADDRESS: Washington, DC 20591
 TITLE: Current Aviation Statistics: Air Traffic
 Activity, Fiscal Year 1976

Report No. AD-A032605, 22 p.
 1976, November

KEYWORDS: AIR TRANSPORTATION; STATISTICS; TABLES
 (DATA); TRAFFIC; AIRPORTS; AIRCRAFT; SERVICES
 AVAILABILITY: NTIS

<688>

U.S. Dept. of Transportation, Federal Highway
 Administration
 ADDRESS: Washington, DC
 TITLE: Highway Statistics, Summary to 1975

Report No. PB-273520, FHWA-HF-NS-575, 294 p.
 1977

KEYWORDS: HIGHWAY TRANSPORTATION; STATISTICS;
 HISTORY; UTILIZATION; FINANCING; FUELS;
 VEHICLES; LICENSING; AUTOMOBILE DRIVERS;
 TAXES; STATE GOVERNMENT; VEHICLE
 REGISTRATIONS; TRAVEL; LOCAL GOVERNMENT;
 TABLES (DATA)
 AVAILABILITY: NTIS; GPO, Stock No. 050-001-00129-2

<689>

U.S. Dept. of Transportation, Federal Highway
 Administration
 ADDRESS: Washington, DC

<689> COFT.
 TITLE: Computer Program for Urban Transportation
 Planning: PLANPAC/BACKPAC. General
 Information Manual

450 p.
 1977, April
 KEYWORDS: COMPUTER PROGRAMS; URBAN
 TRANSPORTATION; PLANNING; INFORMATION; LAND
 USE; VEHICLE TRIPS; TRAFFIC; SIMULATION;
 TRAVEL; AIR QUALITY; BIBLIOGRAPHIES
 AVAILABILITY: GPO, Stock No. 050-001-00125-0

<690>
 U.S. Dept. of Transportation, Federal Highway
 Administration
 ADDRESS: Washington, DC
 TITLE: Nationwide Personal Transportation Study:
 Transportation Characteristics of School
 Children

Report No. 4, 32 p.
 1975, July
 KEYWORDS: TRANSPORTATION; TRAVEL; TRAVEL TIME;
 MILEAGE; SCHOOLS; CHILDREN; BUSES (VEHICLES);
 BICYCLES; PUBLIC TRANSPORTATION; SURVEYS;
 PASSENGER TRANSPORTATION; STATISTICS; TABLES
 (DATA); VEHICLE MILES TRAVELED; DISTANCE; AGE
 GROUPS

<691>
 U.S. Dept. of Transportation, Federal Highway
 Administration
 ADDRESS: Washington, DC
 TITLE: Nationwide Personal Transportation Study:
 Mode of Transportation and Personal
 Characteristics of Tripmakers

Report No. 9, 49 p.
 1973, November
 KEYWORDS: TRAVEL; PUBLIC TRANSPORTATION; MOTOR
 VEHICLES; TRANSPORTATION MODE CHOICE;
 PASSENGER TRANSPORTATION; AGE GROUPS;
 SURVEYS; CENSUS; AIR TRANSPORTATION; TRUCKS;
 VEHICLE MILES TRAVELED; DISTANCE;
 SOCIO-ECONOMIC FACTORS; TABLES (DATA)
 AVAILABILITY: GPO

<692>
 U.S. Dept. of Transportation, Federal Highway
 Administration
 ADDRESS: Washington, DC
 TITLE: Highway Statistics: 1976

Report No. FHWA-RP-76-76, 161 p.
 1976
 KEYWORDS: HIGHWAYS; STATISTICS; HIGHWAY
 TRANSPORTATION; VEHICLES; LICENSES;
 AUTOMOTIVE FUELS; FUEL CONSUMPTION; TAXES;
 STATE GOVERNMENT; VEHICLE REGISTRATIONS;
 REVENUE; RATES (COSTS); TRAVEL; VELOCITY;
 SPEED LIMITS; FINANCING; GOVERNMENT POLICIES;
 ROADS; MILEAGE; TABLES (DATA); OWNERSHIP;
 EXPENDITURES; LOCAL GOVERNMENT
 AVAILABILITY: GPO

<693>
 U.S. Dept. of Transportation, Federal Railroad
 Administration
 ADDRESS: Washington, DC
 TITLE: Rail Passenger Statistics in the Northeast
 Corridor: 1974-75

61p.

1976, March
 KEYWORDS: RAIL TRANSPORTATION; PASSENGER
 TRANSPORTATION; NORTHEASTERN STATES;
 CAPACITY; STATISTICS

<694>
 U.S. Dept. of Transportation, Federal Railroad
 Administration, Government Industry Task
 Force on Railroad Electrification
 ADDRESS: Washington, DC 20590
 TITLE: A Review of Factors Influencing Railroad
 Electrification

V.P.
 1974
 KEYWORDS: RAIL TRANSPORTATION; RAILROADS;
 ELECTRIC VEHICLES; CAPITAL; EUROPE; JAPAN;
 RAILROADS; MILEAGE; GOVERNMENT POLICIES;
 ELECTRIC POWER; ELECTRIC RAIL SYSTEMS

<695>
 U.S. Dept. of Transportation, National Highway
 Traffic Safety Administration
 ADDRESS: Washington, DC 20590
 TITLE: Automotive Fuel Economy Program: Second
 Annual Report to the Congress

Report No. DOT-HS-803207, 45 p.
 1972, January
 KEYWORDS: AUTOMOTIVE FUELS; FUEL ECONOMY;
 REGULATIONS; PASSENGER TRANSPORTATION;
 NATIONAL ENERGY PLAN; MANUFACTURERS; ENERGY
 CONSUMPTION; PETROLEUM; STANDARDS; RESEARCH
 PROGRAMS; VEHICLE MILES TRAVELED; MILEAGE;
 GOVERNMENT POLICIES; GASOLINE

<696>
 U.S. Dept. of Transportation, National Highway
 Traffic Safety Administration
 ADDRESS: Washington, DC 20590
 TITLE: Applicability of Federal Motor Vehicle
 Standards to Electric and Hybrid Vehicles

Report No. DOT-HS-802611, 36 p.
 1978, January
 KEYWORDS: MOTOR VEHICLES; SAFETY; STANDARDS;
 PERFORMANCE; ELECTRIC VEHICLES; PASSENGER
 TRANSPORTATION; TESTING; ACCELERATION; HYBRID
 ELECTRIC-POWERED VEHICLES; BUSES (VEHICLES);
 TRUCKS; COSTS

<697>
 U.S. Dept. of Transportation, National Highway
 Traffic Safety Administration, Office of
 Passenger Vehicle Research, Technology
 Assessment Division
 ADDRESS: Washington, DC 20590
 TITLE: Automotive Fuel Economy Contractors'
 Coordination Meeting: Summary Report

Report No. DOT-HS-803362, Summary Report of the
 Automotive Fuel Economy Research and Analysis
 Program Contractors' Coordination Meeting
 held in Washington, DC, April 24-26, 1978,
 899 p.

1978
 KEYWORDS: FUEL ECONOMY; FUEL CONSUMPTION;
 MEETINGS; STANDARDS; TRANSPORTATION;
 EFFICIENCY; RESEARCH PROGRAMS; DATA
 COLLECTION; STATISTICS; TECHNOLOGY;
 ENGINEERING; MANUFACTURING; MARKETING;
 GOVERNMENT POLICIES; DIESEL ENGINES; SPARK
 IGNITION ENGINES; AUTOMOTIVE TRANSMISSIONS;
 CONSUMERS; MAINTENANCE; VEHICLES; TESTING;

<697>

<697> CONT.

LUBRICANTS; DEMAND (ECONOMICS); ECONOMIC MODELS; FORECASTING; TABLES (DATA); GRAPHS (CHARTS); PHOTOGRAPHS; WEIGHT; COSTS; AUTOMOTIVE INDUSTRY; BEHAVIOR; ENVIRONMENTAL PROTECTION AGENCY

<698>

U.S. Dept. of Transportation, National Highway Traffic Safety Administration, Technical Reference Division
ADDRESS: Washington, DC 20590
TITLE: Fuel Economy ... A Subject Bibliography from Highway Safety Literature

Report No. PB-265387, DOT HS-802 147, v.p.
1977, January

KEYWORDS: BIBLIOGRAPHIES; HIGHWAY TRANSPORTATION; FUEL ECONOMY; ENERGY CONSERVATION; PERFORMANCE; PASSENGER TRANSPORTATION; TRUCKS; GASOLINE; FUEL CONSUMPTION; AUTOMOTIVE EMISSIONS; GOVERNMENT POLICIES; REGULATIONS; AUTOMOBILES; ENGINES; SAFETY
AVAILABILITY: NTIS

<699>

U.S. Dept. of Transportation, Office of the Secretary
ADDRESS: Washington, DC
TITLE: The Status of the Nation's Highways: Conditions and Performance. Report of the Secretary of Transportation to the United States Congress, Pursuant to Section 3, Public Law 89-139

Congressional Committee Print No. 95-29, 483 p.
1977, September

SPONSOR: U.S. House of Representatives, Committee on Public Works and Transportation
KEYWORDS: HIGHWAYS; TRAVEL; PERFORMANCE; INVESTMENTS; REGIONAL ANALYSIS; FORECASTING; TABLES (DATA); GRAPHS (CHARTS)

<700>

U.S. Dept. of Transportation, Office of the Secretary
ADDRESS: Washington, DC
TITLE: 1974 National Transportation Study. Manual I: General Information

Report No. OMB-04-S-72004, 66 p.
1972, May

KEYWORDS: TRANSPORTATION; STATE ANALYSIS; SURVEYS; PLANNING; ORGANIZATIONS; STATE GOVERNMENT; AIRPORTS; HIGHWAYS; TRANSPORTATION SYSTEMS; GOVERNMENT POLICIES; EFFICIENCY; SAFETY; ENVIRONMENTAL IMPACT; TABLES (DATA)

<701>

U.S. Dept. of Transportation, Office of Transportation Planning Analysis
ADDRESS: Washington, DC
TITLE: Catalog of Tabulations: 1974 National Transportation Study

v.p.

1975, February

KEYWORDS: TRANSPORTATION; STATE ANALYSIS; TABLES (DATA); URBAN TRANSPORTATION; CAPITAL COSTS; GROWTH; HIGHWAYS; BUSES (VEHICLES); AIRPORTS; RAIL TRANSPORTATION; COMPUTERS; VEHICLE MILES TRAVELED

<702>

U.S. Dept. of Transportation, Transportation Systems Center, Technology Sharing Program Office
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Rural Passenger Transportation: State-of-the-Art Overview

v.p.

1976, October

KEYWORDS: ELDERLY; RURAL TRANSPORTATION; PASSENGER TRANSPORTATION; POVERTY; RURAL AREAS; POPULATION (STATISTICS); OWNERSHIP; TABLES (DATA); SOCIO-ECONOMIC FACTORS; REGIONAL ANALYSIS; PUBLIC TRANSPORTATION; AUTOMOBILES; MOBILITY; TRANSPORTATION SYSTEMS; TRANSPORTATION DISADVANTAGED; STATE ANALYSIS

<703>

U.S. Dept. of Transportation, Transportation Systems Center, Technology Sharing Program Office
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Light Rail Transit: State-of-the-Art Overview

79 p.

1977, May

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of R & D Policy; U.S. Dept. of Transportation, Urban Mass Transportation Administration
KEYWORDS: LIGHT RAIL TRANSIT; PASSENGER TRANSPORTATION; URBAN TRANSPORTATION; COMPARATIVE EVALUATIONS; REGIONAL ANALYSIS; CANADA; RIGHT-OF-WAY; TABLES (DATA); MAPS

<704>

U.S. Dept. of Transportation, Transportation Systems Center, Technology Sharing Program Office
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Rural Passenger Transportation Primer

Selected Transportation Topics, 70 p.
1977, January

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of R & D Policy
KEYWORDS: RURAL TRANSPORTATION; REGIONAL ANALYSIS; POVERTY; MINNESOTA; SOUTH CAROLINA; PASSENGER TRANSPORTATION; PLANNING; PENNSYLVANIA; ELDERLY; BIBLIOGRAPHIES; STATE ANALYSIS; TRANSPORTATION DISADVANTAGED

<705>

U.S. Dept. of Transportation, Transportation Systems Center, Technology Sharing Program Office
ADDRESS: Kendall Square, Cambridge, MA 02142
TITLE: Mini-bus Profile

Selected Transportation Topics, 41 p.

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of R & D Policy
KEYWORDS: BUSES (VEHICLES); PASSENGER TRANSPORTATION; ENGINES; TABLES (DATA); DESIGN; ELECTRIC VEHICLES; DIRECTORIES; MANUFACTURERS; FUEL CONSUMPTION; PERFORMANCE

<706>

U.S. Dept. of Transportation, Transportation Systems Center, Transportation Information Division
 ADDRESS: Kendall Square, Cambridge, MA 02142
 TITLE: Transportation Safety Information Report: October, November, and December 1977 and Annual Summary

Quarterly Report, Report No. WTISUB/C/224-004, DOT-TSC-924-77-4, 113 p.
 1976, March

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Policy, Plans, and International Affairs
 KEYWORDS: TRANSPORTATION; SAFETY; ACCIDENTS; INJURIES; GRAPHS (CHARTS); TABLES (DATA)
 AVAILABILITY: WTIS

<707>

U.S. Dept. of Transportation, Transportation Systems Center, Transportation Information Division
 ADDRESS: Kendall Square, Cambridge, MA 02142
 TITLE: Profiles of Scheduled Air Carrier Passenger Traffic for Top 100 U.S. Airports, August 6, 1976

Report No. FAA-AVP-77-30, 207 p.
 1977, July

SPONSOR: U.S. Dept. of Transportation, Federal Aviation Administration, Office of Aviation Policy, Aviation Forecast Branch
 KEYWORDS: AIR TRANSPORTATION; AIRCRAFT; TRAFFIC; PASSENGER TRANSPORTATION; AIRPORTS; TABLES (DATA); GRAPHS (CHARTS); PASSENGER PLACEMENTS; SERVICES

<708>

U.S. Dept. of Transportation, Urban Mass Transportation Administration
 ADDRESS: Washington, DC 20590
 TITLE: Urban Mass Transportation Act of 1964 and Related Laws, as Amended Through February 5, 1976

131 p.

KEYWORDS: URBAN TRANSPORTATION; MASS TRANSPORTATION; LEGISLATION; GOVERNMENT POLICIES; REGULATIONS
 AVAILABILITY: GPO, Stock No. 050-014-00007-0/Catalog No. TD 7.5:UR1/3

<709>

U.S. Dept. of Transportation, Urban Mass Transportation Administration, Office of Technology Development and Deployment, Office of AGT Applications; U.S. Dept. of Transportation, Transportation Systems Center, Technology Sharing Program Office
 ADDRESS: DOT/UMTA, Trans Point Building, 2100 2nd Street SW, Washington, DC 20590; DOT/TSC, Kendall Square, Cambridge, MA 02142
 TITLE: People Rover Profiles

35 p.

1977, May
 KEYWORDS: PASSENGER TRANSPORTATION; URBAN AREAS; PHOTOGRAPHS; DEMONSTRATION; OPERATION; PERFORMANCE; AUTOMATED GUIDEWAY TRANSIT
 AVAILABILITY: GPO

<710>

U.S. Dept. of Transportation, Urban Mass Transportation Administration, Policy and Program Development, Office of Program Evaluation
 ADDRESS: Washington, DC 20590
 TITLE: The UMTA Rail Modernization Program. The Distribution of Capital Grant Funds for Rail Rehabilitation and Modernization, 1965-1977

1976, July

KEYWORDS: RAIL TRANSPORTATION; CAPITAL COSTS; ENERGY CONSUMPTION; RAPID TRANSIT SYSTEMS; GROWTH; GOVERNMENT POLICIES; REGIONAL ANALYSIS; US DOT; MAINTENANCE; RETROFITTING; MODERNIZATION; OPERATING COSTS; EMPLOYMENT; PASSENGER TRANSPORTATION; COMMUTERS; TABLES (DATA); RAILROADS; FUNDING

<711>

U.S. Environmental Protection Agency, Emission Control Technology Division, Standards Development and Support Branch
 ADDRESS: Ann Arbor, MI 48105
 TITLE: The Effect of Dynamometer Inertia Increment and Power Setting on Emissions and Fuel Economy for Motorcycles. Technical Support Report for Regulatory Action

Report No. PB-270721, HC 75-03, 13 p.
 1975, August

KEYWORDS: MOTORCYCLES; DYNAMOMETERS; EMISSIONS; FUEL CONSUMPTION; TABLES (DATA); FUEL ECONOMY; TESTING; MOMENT OF INERTIA; WEIGHT
 AVAILABILITY: WTIS

<712>

U.S. Environmental Protection Agency, Emission Control Technology Division, Standards Development and Support Branch
 ADDRESS: Ann Arbor, MI 48105
 TITLE: Motorcycle Usage. Technical Support Report for Regulatory Action

Report No. PB-270710, HC 76-02, 15 p.
 1976, January

KEYWORDS: SURVEYS; UTILIZATION; MOTORCYCLES; SIZE; TRANSPORTATION; EMISSIONS; COMMUTING; VEHICLE TRIPS; VELOCITY; TABLES (DATA); INFORMATION NEEDS
 AVAILABILITY: WTIS

<713>

U.S. Environmental Protection Agency, Office of Transportation and Land Use Policy
 ADDRESS: Washington, DC 20460
 TITLE: Bicycle Strategies to Reduce Air Pollution

Report No. EPA-400/9-78-008, 20 p.
 1978, June

KEYWORDS: BICYCLES; AIR POLLUTION; ENVIRONMENTAL PROTECTION AGENCY; COMMUNITY DEVELOPMENT; EDUCATION; PLANNING; ROADS

<714>

U.S. House of Representatives, Committee on Government Operations
 ADDRESS: Washington, DC 20510
 TITLE: Department of Energy Organization Act

Congressional Committee Print, 95th Congress, 1st Session, Hearings on H.R. 4263, held March 28, 29, April 5, 6, 16, and 19, 1977, 940 p.
 1977

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<714> CONT.

KEYWORDS: US DOE; HEARINGS; ENERGY POLICY;
GOVERNMENT POLICIES

<715>

U.S. International Trade Commission
ADDRESS: Washington, DC 20436
TITLE: Automotive Trade Statistics, 1964-76

Series B, USITC Publication No. 839, 103 p.
1977, October

KEYWORDS: AUTOMOBILES; STATISTICS; TABLES (DATA);
INTERNATIONAL TRADE; IMPORTS; SALES; EXPORTS;
CONSUMPTION; PRICES; VEHICLE REGISTRATIONS

<716>

U.S. Senate, Committee on Energy and Natural
Resources
ADDRESS: Washington, DC
TITLE: Economic Impact of President Carter's
Energy Program

Congressional Committee Print, 95th Congress, 1st
Session, Publication No. 95-33, hearings held
May 3, 1977, 180 p.

1977

KEYWORDS: ECONOMIC IMPACT; ENERGY POLICY;
NATIONAL ENERGY PLAN; TAXES; GASOLINE; FUEL
ECONOMY; TRANSPORTATION; THERMAL INSULATION;
ENERGY CONSERVATION; INDUSTRIAL SECTOR;
UTILITIES; PRICES; PETROLEUM; NATURAL GAS;
COAL; RESEARCH; NUCLEAR ENERGY; NUCLEAR
REACTOR SAFETY; SOLAR ENERGY

<717>

U.S. Senate, Committee on Energy and Natural
Resources; Federal Energy Administration
ADDRESS: Washington, DC
TITLE: Regulation of Domestic Crude Oil Prices

Publication No. 95-8, 95th Congress, 1st Session,
233 p.

1977, March

KEYWORDS: REGULATIONS; PETROLEUM; PRICES;
ECONOMIC IMPACT; SUPPLY (ECONOMICS);
PRODUCTION; TABLES (DATA); GRAPHS (CHARTS);
LEGISLATION; GOVERNMENT POLICIES
AVAILABILITY: U.S. Senate Committee on Energy and
Natural Resources

<718>

U.S. Senate, Committee on Energy and Natural
Resources, Subcommittee on Energy
Conservation and Regulation
ADDRESS: Washington, DC
TITLE: Mandatory Energy Conservation Amendments
to President Carter's Energy Program

Congressional Committee Print, 95th Congress, 1st
Session, Serial No. 95-102, hearings held
July 25, 26 and August 1, 1977, 748 p.

1978

KEYWORDS: AUTOMOBILES; NATIONAL ENERGY PLAN;
ENERGY CONSERVATION; TRANSPORTATION;
GOVERNMENT POLICIES; EQUIPMENT; EFFICIENCY;
STANDARDS; RESIDENTIAL SECTOR; SPACE HEATING;
ELECTRIC MOTORS; ELECTRIC POWER DEMAND;
FURNACES; ENERGY CONSUMPTION; BEVERAGES; FUEL
ECONOMY; TRUCKS; TABLES (DATA)

<719>

U.S. Senate, Committee on Energy and Natural
Resources, Subcommittee on Energy
Conservation and Regulation
ADDRESS: Washington, DC
TITLE: Status of Federal Energy Conservation
Programs. Parts 1 and 2

Congressional Committee Print, 95th Congress, 1st
Session, Serial No. 95-41, 282 p. for Part I,
992 p. for Part 2, hearings held April 4 and
6, 1977

1977

KEYWORDS: ENERGY CONSERVATION; GOVERNMENT
POLICIES; ENERGY SHORTAGES; IMPORTS;
PETROLEUM; ENERGY RESOURCES; ENERGY
CONSUMPTION; INDUSTRIAL SECTOR;
TRANSPORTATION; SOLAR ENERGY; PRICES; INCOME;
ENERGY SUPPLIES; RESIDENTIAL SECTOR;
RETROFITTING; BUILDINGS; APPLIANCES; GRAPHS
(CHARTS); COSTS; COGENERATION; ELECTRIC
POWER; TABLES (DATA); PERFORMANCE; STANDARDS;
AUTOMOBILES; EQUIPMENT

<720>

U.S. Senate, Committee on Energy and Natural
Resources, Subcommittee on Energy
Conservation and Regulation
ADDRESS: Washington, D.C.

TITLE: Diesel Fuel and Gasoline Conservation Act
of 1977

Congressional Committee Print, 95th Congress, 1st
Session, Serial 95-104, hearings held June
27, 1977, 130 p.

1978

KEYWORDS: DIESEL FUELS; GASOLINE; ENERGY
CONSERVATION; US DEPT OF COMMERCE; GOVERNMENT
POLICIES; TRUCKS; TRANSPORTATION; FOOD
INDUSTRY; CONSUMERS; MANUFACTURERS;
DISTRIBUTION; FUEL CONSUMPTION; LEGISLATION;
CARGO TRANSPORTATION

<721>

U.S. Senate, Committee on Governmental Affairs
ADDRESS: Washington, DC
TITLE: Department of Energy Organization Act

Congressional Committee Print, Report No. 95-164
to accompany S.826, 95th Congress, 1st
Session, 125 p.

1977

KEYWORDS: US DOE; LEGISLATION; ENERGY POLICY;
GOVERNMENT POLICIES; US FEA; US ERDA; FEDERAL
POWER COMMISSION; ENERGY CONSERVATION;
REGULATIONS
AVAILABILITY: GPO

<722>

U.S. Senate, Committee on Governmental Affairs
ADDRESS: Washington, DC
TITLE: Department of Energy Organization Act

Congressional Committee Print, 95th Congress, 1st
Session, Hearings on S.826 and S.591, held
March 7, 9, 15, 16, 17, 18, 22, 24, 25, 29,
31 and April 8, 1977, 1322 p.

1977

KEYWORDS: US DOE; ENERGY POLICY; LEGISLATION;
GOVERNMENT POLICIES; HEARINGS
AVAILABILITY: GPO

<723>

U.S. Travel Data Center

<723> CONT.

ADDRESS: Suite 450, 1100 Connecticut Ave. NW,
Washington, DC 20036
TITLE: 1976 National Travel Survey: Full Year
Report

1977

KEYWORDS: TRAVEL; SURVEYS; TABLES (DATA);
TOURISM; AUTOMOBILES; TRUCKS; AIR
TRANSPORTATION; REGIONAL ANALYSIS; VEHICLE
TRIPS
AVAILABILITY: \$20.00

<724>

U.S. Travel Data Center
ADDRESS: Suite 410, 1100 Connecticut Avenue NW,
Washington, DC 20036
TITLE: Proceedings: 1978 Travel Outlook Forum
Proceedings of conference held Washington Hilton
Hotel, Washington, D.C., December 1, 1977,
171 p.

1978

SPONSOR: Travel Research Association
KEYWORDS: TRANSPORTATION; TRAVEL; ENERGY POLICY;
FUEL CONSUMPTION; ENERGY CONSERVATION;
NATIONAL ENERGY PLAN; GRAPHS (CHARTS);
TOURISM; ECONOMIC ANALYSIS; INTERNATIONAL
TRAVEL; AIR TRANSPORTATION; RECREATIONAL
TRAVEL; AUTOMOBILES; BUSES (VEHICLES); RAIL
TRANSPORTATION; HOTELS; TABLES (DATA)
AVAILABILITY: \$25.00

<725>

U.S. Travel Data Center
ADDRESS: 1100 Connecticut Ave. NW, Washington, DC
20036
TITLE: Survey of State Travel Offices: 1977-1978
Annual Report, 82 p.
1977, October 11
KEYWORDS: TRAVEL; TOURISM; STATE ANALYSIS; PUBLIC
RELATIONS

<726>

U.S. Travel Data Center
ADDRESS: Washington, DC 20036
TITLE: 1976 National Travel Expenditure Study:
Summary Report

174 p.

1977, December 15

KEYWORDS: TRAVEL; EXPENDITURES; AUTOMOBILES;
TRUCKS; AIR TRANSPORTATION; VEHICLE TRIPS;
STATISTICS; HOTELS; PUBLIC TRANSPORTATION;
TARIFFS (DATA); FOOD; WEEKEND TRAVEL;
SOCIO-ECONOMIC FACTORS; VEHICLE MILES
TRAVELED; BUSES (VEHICLES); RAIL
TRANSPORTATION
AVAILABILITY: \$25.00

<727>

U.S. Travel Data Center
ADDRESS: 1100 Connecticut Avenue NW, Washington
DC 20036
TITLE: The Impact of Travel on State Economies:
1976

56 p.

1978

KEYWORDS: TOURISM; TRAVEL; STATE ANALYSIS;
VEHICLE MILES TRAVELED; EXPENDITURES;
AUTOMOBILES; PUBLIC TRANSPORTATION; FOOD;
REVENUE; HOTELS; EMPLOYMENT; STATISTICS;

TABLES (DATA); PAYROLLS; ECONOMIC IMPACT
AVAILABILITY: \$15.00

<728>

Ulrichson, D.L.
Iowa State University, Dept. of Science and
Technology
ADDRESS: Ames, IA 50011
TITLE: Fleet Test of Re-Refined Oil. First
Annual Progress Report

Report No. COO-8078-3, 10 p.

1977, May

SPONSOR: Energy Research and Development
Administration
KEYWORDS: LUBRICATING OILS; PETROLEUM PRODUCTS;
TESTING; PERFORMANCE; AUTOMOBILES; TRUCKS;
AUTOMOTIVE FLEETS; TRANSPORTATION;
COMPARATIVE EVALUATIONS; TABLES (DATA); OILS;
PETROLEUM REFINING
AVAILABILITY: NTIS

<729>

Underhill, B.; Gott, P.; Hurter, D.; Mathews, H.;
Netcalf, E.; Nicol, J.; Parry, J.; Stratton,
L.; Strong, S.; Sullivan, D.; Teeters, P.;
Whittier, A.
Little (Arthur D.) Inc.
ADDRESS: 25 Acorn Park, Cambridge, MA 02140
TITLE: Recommended Performance Standards for
Electric and Hybrid Vehicles

Report No. SAN/1335-1, 164 p.

1977, September

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: ELECTRIC VEHICLES; HYBRID
ELECTRIC-POWERED VEHICLES; PERFORMANCE;
STANDARDS; RESEARCH; QUESTIONNAIRES; SURVEYS;
TABLES (DATA); GRAPHS (CHARTS)

<730>

Union College, Graduate Studies and Continuing
Education
ADDRESS: Schenectady, NY 12308
TITLE: Fourth National Conference on the "Effects
of Energy Constraints on Transportation
Systems"

Proceedings of a conference held at Union
College, Schenectady, New York, on August
1-5, 1977, v.p.

1977

SPONSOR: Energy Research and Development
Administration, Division of Transportation
Energy Conservation
KEYWORDS: TRANSPORTATION; CONFERENCES; ENERGY
SHORTAGES; PLANNING; EFFICIENCY; INTERCITY
TRANSPORTATION; PASSENGER TRANSPORTATION;
CARGO TRANSPORTATION; AIR TRANSPORTATION;
INTRACITY TRANSPORTATION; RAIL
TRANSPORTATION; GOVERNMENT POLICIES; ELECTRIC
VEHICLES; RESEARCH; ENERGY CONSUMPTION

<731>

Banewehr, L.E.; Knoop, C.W.
Ford Motor Co., Ford Research Staff
TITLE: Electrical Component Modeling and Sizing
for RV Simulation

Paper No. 780215, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan.

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<731> CONT.

February 27 - March 3, 1978, 13 p.

1978

KEYWORDS: ELECTRIC VEHICLES; MODELS; PERFORMANCE;
ELECTRIC VEHICLE RANGE; DRIVING CYCLE;
BATTERIES; SIZE; GRAPHS (CHARTS)AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<732>

Urban Consortium for Technology Initiatives,
Transportation Task Force; Public Technology
Inc.ADDRESS: PTI, 1140 Connecticut Ave NW,
Washington, DC 20036

TITLE: Urban Goods Movement

Information Bulletin, 22 p.

1978, February

SPONSOR: U.S. Dept. of Transportation

KEYWORDS: COMMODITIES; CARGO TRANSPORTATION;
TRUCKS; RAILROADS; LOCAL GOVERNMENT; URBAN
AREAS; TRAFFIC; INSTITUTIONAL FACTORS;
PLANNING

AVAILABILITY: NTIS

<733>

Urban Consortium for Technology Initiatives,
Transportation Task Force; Public Technology
Inc.ADDRESS: PTI, 1140 Connecticut Ave., NW,
Washington, DC 20036

TITLE: Alternative Work Schedules

Information Bulletin, 25 p.

1978, February

SPONSOR: U.S. Dept. of Transportation

KEYWORDS: SCHEDULING; COMMUTING; WORK; WORKING
CONDITIONS; RESEARCH; DEMONSTRATION;
DIRECTORIES; TRAFFIC; TRANSPORTATION

AVAILABILITY: NTIS

<734>

Urban Consortium for Technology Initiatives,
Transportation Task Force; Public Technology
Inc.ADDRESS: PTI, 1140 Connecticut Ave. NW,
Washington, DC 20036

TITLE: Asphalt Improvements

Information Bulletin, 29 p.

1978, October

SPONSOR: U.S. Dept. of Transportation

KEYWORDS: HIGHWAYS; CONSTRUCTION; ASPHALTS;
CONCRETES; RECYCLING; ADDITIVES

<735>

Urban Transportation Systems Associates Inc.
TITLE: Traffic Count Program. Volume I: Design
and Development. Volume II: Program
Documentation

1977, April

SPONSOR: Rhode Island Dept. of Transportation,
Planning Division; U.S. Dept. of
Transportation, Federal Highway Administration
KEYWORDS: TRAFFIC COUNT; VEHICLE MILES TRAVELED;
AUTOMOBILE OCCUPANCY; SEASONAL VARIATIONS;
TRUCKS; WEIGHT; AUTOMOBILES; RHODE ISLAND;
MEASURING INSTRUMENTS; COMPUTER PROGRAMS;
HIGHWAYSAVAILABILITY: Rhode Island Dept. of
Transportation, Planning Division, State

Office Building, Providence, RI 02903

<736>

Vaaler, L.E.; Brooman, E.W.
Battelle Columbus Laboratories
ADDRESS: Columbus, OHTITLE: Mathematical Model for the Design of Grids
for Electric Vehicle BatteriesPaper No. 780221, presented at the Society of
Automotive Engineers' Congress and
Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 12 p.

1978

KEYWORDS: ELECTRIC VEHICLES; LEAD-ACID BATTERIES;
MODELS; PERFORMANCE; DESIGN; TABLES (DATA)AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

<737>

Van Abkoude, J.C.
McDonnell Douglas Corp., Douglas Aircraft Co.
ADDRESS: Long Beach, CA 90846TITLE: Cost/Benefit Tradeoffs for Reducing the
Energy Consumption of the Commercial Air
Transportation System. Volume II: Market
and Economic AnalysesReport No. W77-23073, NASA CR-137924, HDC J7340,
375 p.

1976, June

SPONSOR: National Aeronautics and Space
Administration, Ames Research CenterKEYWORDS: BENEFIT COST ANALYSIS; ENERGY
CONSUMPTION; ENERGY CONSERVATION; AIR
TRANSPORTATION; PASSENGER TRANSPORTATION;
ECONOMIC ANALYSIS; OPERATING COSTS; MARKET;
TABLES (DATA); GRAPHS (CHARTS); DESIGN; FUEL
CONSUMPTION; COMPARATIVE EVALUATIONS; PROFITS

AVAILABILITY: NTIS

<738>

van Giesse, R.; Reinink, F.
N.V. Phillips' Gloeilampenfabrieken
ADDRESS: Germany
TITLE: Design of the 4-215 D.A. Automotive
Stirling EnginePaper No. 770082, presented at the Society of
Automotive Engineers' International
Automotive Congress and Exposition, Cobo
Hall, Detroit, Michigan, February 28-March 4,
1977, 16 p.

1977

SPONSOR: Society of Automotive Engineers

KEYWORDS: STIRLING ENGINES; PERFORMANCE; FUEL
ECONOMY; DESIGN; DIAGRAMS; GRAPHS (CHARTS);
PHOTOGRAPHSAVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096

<739>

Velson, W.D.
U.S. Dept. of Transportation, Office of Systems
Analysis and Information, Strategic Planning
Division

ADDRESS: Washington, DC 20590

TITLE: The Role of Travel Time Limits in Urban
Growth (A Postulated Urban Area Definition)

61 p.

1975, April

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KEYWORDS: URBAN AREAS; GROWTH; TRAVEL; URBAN TRANSPORTATION; PLANNING; TRANSPORTATION SYSTEMS

<740>

Veziroglu, T.M. (ed.)
Miami, University of, School of Engineering and Environmental Design; Miami University, Clean Energy Research Institute; International Association for Hydrogen Energy
ADDRESS: 40, Coral Gables, FL 33124
TITLE: First World Hydrogen Energy Conference. Volumes I - III

Proceedings of conference held March 1-3, 1976, Miami Beach, Florida, v.p.

1976

SPONSOR: Energy Research and Development Administration; Miami, University of, School of Continuing Studies

KEYWORDS: HYDROGEN; CONFERENCES; HYDROGEN PRODUCTION; NUCLEAR ENERGY; SOLAR ENERGY; COAL; PYROCHEMICAL PROCESSES; GRAPHS (CHARTS); ELECTROLYSIS; TRANSMISSION; HYDROGEN STORAGE; VEHICLES; ALTERNATE FUELS; TRANSPORTATION; HYDRIDES; MATERIALS; UTILIZATION; AIRCRAFT; AUTOMOBILES; INDUSTRIAL SECTOR; RESIDENTIAL SECTOR; COMMERCIAL SECTOR; ECONOMICS

AVAILABILITY: School of Continuing Studies, P.O. Box 248005, University of Miami, Coral Gables, FL 33124 \$75.00 (while the supply lasts)

<741>

Voltz, S.E.; Wise, J.J.
Mobil Research and Development Corp.
ADDRESS: Paulsboro, NJ 08066
TITLE: Development Studies on Conversion of Methanol and Related Oxygenates to Gasoline

Final Report, Report No. FE-1773-25, 336 p. 1976, November

SPONSOR: Energy Research and Development Administration

KEYWORDS: METHANOL; GASOLINE; CONVERSION; ECONOMICS; TECHNOLOGY; FLUIDIZED BED PROCESSORS; TABLES (DATA); GRAPHS (CHARTS); ALTERNATE FUELS; SYNTHETIC FUELS

AVAILABILITY: NTIS

<742>

Voorhees (Alan H.) and Associates Inc.
ADDRESS: McLean, VA 22101
TITLE: Factors and Trends in Trip Length

National Cooperative Highway Research Program Report 48, NBS-WRC Publication 1582, 70 p. 1968

SPONSOR: American Association of State Highway Officials; U.S. Bureau of Public Roads; National Academy of Sciences, National Research Council, Highway Research Board

KEYWORDS: VEHICLE TRIPS; TRAFFIC; URBAN AREAS; LAND USE; URBAN TRANSPORTATION; TRANSPORTATION SYSTEMS; SOCIO-ECONOMIC FACTORS; PLANNING; FORECASTING; MEASUREMENT; TRAVEL; MODELS; INCOME; GRAPHS (CHARTS); TABLES (DATA); TRUCKS; COMMUTING; SHOPPING TRIPS; RECREATION; COMPUTERIZED SIMULATION; POPULATION (STATISTICS); EMPLOYMENT

AVAILABILITY: National Academy of Sciences, Highway Research Board, 2101 Constitution Ave. NW, Washington, DC 20418 \$3.20

<743>

Voorhees (Alan H.) and Associates Inc.
ADDRESS: 7798 Old Springhouse Rd., Westgate Research Park, McLean, VA 22101
TITLE: Study of Future Paratransit Requirements

Report No. PB-264082, URTA-IT-06-0104-77-2, 266 p. 1977, January

SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration

KEYWORDS: FORECASTING; PARATRANSIT; URBAN AREAS; LEGAL ASPECTS; ENERGY CONSUMPTION; COSTS; AUTOMOBILES; VEHICLES; MASS TRANSPORTATION; COMPUTERS; VANPOOLS; COMPARATIVE EVALUATIONS; TABLES (DATA)

AVAILABILITY: NTIS

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Wagner, J.R.; Naughton, J.; Brooks, W.P.; Davis, R.
Brookhaven National Laboratory, National Center for Analysis of Energy Systems
ADDRESS: Upton, NY

TITLE: Light Duty Highway Fleets: The Potential for Alternative Technologies in Fleets Operated by Corporations and State and Local Governments

Interia Briefing, presentation will be published as "Fleet Operator Vehicles: Summer 1977 Data," Report No. BNL-50904

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SPONSOR: U.S. Dept. of Energy, Division of Transportation Energy Conservation

KEYWORDS: AUTOMOTIVE FLEETS; MODELS; FORECASTING; MARKET; VEHICLE REGISTRATIONS; AUTOMOBILES; HYBRID ELECTRIC-POWERED VEHICLES; PURCHASING; WEIGHT; EQUIPMENT; TRUCKS; HIGHWAY TRANSPORTATION; PASSENGER TRANSPORTATION; CAPACITY; DIESEL FUELS; AUTOMOTIVE ENGINES; SIZE; TABLES (DATA)

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Wakefield, E.H.
TITLE: The Consumer's Electric Car

136 p.

1977

KEYWORDS: ELECTRIC VEHICLES; AUTOMOBILES; DESIGN; FORECASTING; REGULATIONS; ECONOMICS; EFFICIENCY; COMPARATIVE EVALUATIONS; TECHNOLOGY; BATTERIES; OPERATION; CONTROL; DIAGRAMS; GRAPHS (CHARTS)

AVAILABILITY: Ann Arbor Science Publishers Inc., 230 Collingwood, P.O. Box 1425, Ann Arbor, MI 48106 \$9.95

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Walbridge, E.W.
Illinois, University of, College of Engineering
ADDRESS: Box 4348, Chicago, IL 60680
TITLE: Per Passenger-Mile Energy Consumption and Costs for Suburban Commuter Service Diesel Trains

Report No. PB-242232, URTA-IL-11-0006-74-1, 59 p. 1974, August

SPONSOR: U.S. Dept. of Transportation, Urban Mass Transportation Administration

KEYWORDS: ENERGY CONSUMPTION; DIESEL ENGINES; RAIL TRANSPORTATION; COMMUTING; COSTS; POLLUTION; SERVICES; AUTOMOBILES; COMPARATIVE EVALUATIONS; CHICAGO

AVAILABILITY: NTIS

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Walderhaug, A.J.
U.S. Dept. of Commerce, Bureau of Economic
Analysis
ADDRESS: Washington, DC 20230
TITLE: Revised Input-Output Tables for the United
States: 1967

Report No. PB-270259, BEA-SP 77-029, 64 p.
1977, June

KEYWORDS: INPUT-OUTPUT ANALYSIS; INDUSTRIES;
DEMAND (ECONOMICS); SUPPLY (ECONOMICS);
PRODUCTION; SALES; PRICES; INVENTORIES;
COSTS; CONSUMERS; STATISTICS; TABLES (DATA);
INDUSTRIAL SECTOR; COMMERCIAL SECTOR;
RESIDENTIAL SECTOR; IMPORTS; TRANSPORTATION
AVAILABILITY: NTIS

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Walker, D.L.; Board, J.O.; Pigott, J.S.; Sutton,
E.P.
Champion Spark Plug Co.
TITLE: How Passenger Car Maintenance Affects Fuel
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Paper No. 780032, presented at the Society of
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Exposition, Cobo Hall, Detroit, Michigan,
February 27 - March 3, 1978, 12 p.

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KEYWORDS: FUEL ECONOMY; MAINTENANCE; AUTOMOTIVE
EMISSIONS; AUTOMOBILES; REPAIR; AUTOMOBILE
DRIVERS; TESTING; FUEL CONSUMPTION;
AUTOMOTIVE ENGINES; MILEAGE; GRAPHS (CHARTS)
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.50

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Walz, A.
Scitran
ADDRESS: Box 5456, Santa Barbara, CA 93108
TITLE: Contribution to the Theory of the Electric
Vehicle

Report No. N76-15376, NASA TT-P-16817, 33 p.;
translated from Elektrotechnische Zeitschrift
Ausgabe, 94(11), 622-631

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KEYWORDS: ELECTRIC VEHICLES; MATHEMATICS;
BATTERIES; MECHANICS
AVAILABILITY: NTIS

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ADDRESS: 28 West Adams, Detroit, MI 48226
TITLE: Ward's Automotive Yearbook: 1978

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KEYWORDS: AUTOMOTIVE INDUSTRY; INTERNATIONAL
TRADE; RECREATION VEHICLES; DIRECTORIES;
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TIRES; CANADA; AUTOMOBILES; MANUFACTURERS;
TRUCKS; CONSTRUCTION; EQUIPMENT; AGRICULTURAL
EQUIPMENT; INFORMATION; VEHICLE REGISTRATIONS
AVAILABILITY: \$35.00

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Warner, P.
Ogle (David) Ltd.
ADDRESS: United Kingdom
TITLE: A Purpose-Built Electric Taxi

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Michigan, February 23-27, 1976, 5 p.
SPONSOR: Society of Automotive Engineers
KEYWORDS: ELECTRIC VEHICLES; TAXICABS; DESIGN
AVAILABILITY: Society of Automotive Engineers
Inc., 400 Commonwealth Drive, Warrendale, PA
15096 \$2.75

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Watts, W.W.
Argonne National Laboratory, Energy and
Environmental Systems Division
ADDRESS: 9700 South Cass Avenue, Argonne, IL
60439
TITLE: Social Organization and Transportation
Energy: An Annotated Bibliography

Report No. ANL-74-XX-5, 51 p.

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SPONSOR: Energy Research and Development
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KEYWORDS: BIBLIOGRAPHIES; ENERGY CONSUMPTION;
AUTOMOBILES; MASS TRANSPORTATION; RAIL
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DECISION MAKING; LAND USE; TRANSPORTATION
SYSTEMS; PLANNING; FUEL CONSUMPTION; LOCAL
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U.S. Dept. of Energy, Assistant Secretary for
Energy Technology, Division of Energy Storage
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ADDRESS: Washington, DC
TITLE: Battery and Electrochemical Systems
Program Summary: FY 1977

Report No. DOE/ET-0014, v.p.

1978, April

KEYWORDS: ENERGY STORAGE; BATTERIES; FUNDING;
RESEARCH PROGRAMS; UTILIZATION;
ELECTROCHEMICAL CELLS

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Weigel, W.
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ADDRESS: Box 5456, Santa Barbara, CA 93108
TITLE: Driving Cycles for Electric Urban Vehicles
and Methods for Obtaining Them

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Zeitschrift Ausgabe, 94(3), 142-146

1975, December

KEYWORDS: ELECTRIC VEHICLES; SIMULATION; TABLES
(DATA); URBAN TRANSPORTATION; TESTING
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Weimer, G.A.
TITLE: Materials Are the Key in Auto Weight
Watching

Iron Age, 218(19), 33-39

1976, November 8

KEYWORDS: AUTOMOTIVE INDUSTRY; MATERIALS; WEIGHT;
PLASTICS; AUTOMOTIVE ENGINEERING;
PERFORMANCE; STEELS; FUEL ECONOMY; CORROSION;
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 Weiner, E.
 U.S. Dept. of Transportation, Office of the
 Secretary, Office of Assistant Secretary for
 Policy, Plans and International Affairs,
 Office of Transportation Planning Analysis,
 Urban Analysis Program
 ADDRESS: Washington, DC
 TITLE: Urban Area Results of the 1974 National
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 9 p.
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 KEYWORDS: TRANSPORTATION SYSTEMS; SURVEYS; URBAN
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 U.S. Dept. of Transportation, Assistant Secretary
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 Urban Analysis Program
 ADDRESS: Washington, DC
 TITLE: Some Urbanized Area Journey to Work
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 1974, May 5
 KEYWORDS: URBAN AREAS; COMMUTING; VEHICLE TRIPS;
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 REGIONAL ANALYSIS; STATE ANALYSIS

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 Wheeler, P.K.
 U.S. Congress, Congressional Budget Office,
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 ADDRESS: Washington, DC
 TITLE: Railroad Reorganization: Congressional
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 the Final System Plan of the U.S. Railway
 Association
 Background Paper No. 2, 58 p.
 1976, January 15
 KEYWORDS: RAIL TRANSPORTATION; GOVERNMENT
 POLICIES; EXPENDITURES; BUDGETS; PLANNING;
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 AVAILABILITY: GPO \$1.60

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 White, K.E.
 Exxon Enterprises Inc.
 TITLE: A Digital Computer Program for Simulating
 Electric Vehicle Performance
 Paper No. 780216, presented at the Society of
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 February 27 - March 3, 1978, 16 p.
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 KEYWORDS: ELECTRIC VEHICLES; COMPUTERIZED
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 PERFORMANCE; BATTERIES; DRIVING CYCLE; GRAPHS
 (CHARTS)
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096 \$2.50

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 White, S.B.; Clayton, C.A.; Bressler, L.D.;
 Stewart, J.R.

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 Research Triangle Institute; North Carolina,
 University of, Highway Safety Research Center
 ADDRESS: RTI, P.O. Box 12194, Research Triangle
 Park, NC 27709
 TITLE: Improved Exposure Measurements
 Report No. RTI 2520-760, v.p.
 1975, September 30
 SPONSOR: U.S. Dept. of Transportation, National
 Highway Traffic Safety Administration
 KEYWORDS: VEHICLE MILES TRAVELED; ACCIDENTS;
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 NORTH CAROLINA; URBAN AREAS; RURAL AREAS;
 TABLES (DATA); POPULATION (STATISTICS); AGE
 GROUPS; OWNERSHIP; VEHICLE REGISTRATIONS;
 QUESTIONNAIRES; SEX; STATE ANALYSIS

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 Wilburn, M.C. (ed.)
 National Academy of Sciences, National Research
 Council, Transportation Research Board
 ADDRESS: 2101 Constitution Ave. NW, Washington,
 DC 20418
 TITLE: Transportation and Land Development Policy
 Transportation Research Record 565, 10 papers
 prepared for the 54th Annual Meeting of the
 Transportation Research Board, 75 p.
 1976
 KEYWORDS: TRANSPORTATION SYSTEMS; LAND USE; LAND
 DEVELOPMENT; GOVERNMENT POLICIES; PLANNING;
 SOCIO-ECONOMIC FACTORS; ENVIRONMENTAL IMPACT;
 HIGHWAYS; URBAN AREAS; SUBURBAN AREAS
 AVAILABILITY: \$6.00

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 Princeton University, Transportation Program
 ADDRESS: Princeton, NJ 08540
 TITLE: Energy Costs of Heavy Rail Transit
 Construction
 Masters Thesis, 76 p.
 1978, June
 KEYWORDS: BAY AREA RAPID TRANSIT SYSTEM;
 CONSTRUCTION; INPUT-OUTPUT ANALYSIS; SYSTEMS
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 (DATA)

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 Williams, K.R.
 Shell International Petroleum Co. Ltd.
 ADDRESS: United Kingdom
 TITLE: Energy Analysis and the Electric Car
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 Michigan, February 23-27, 1976, 5 p.
 1976
 SPONSOR: Society of Automotive Engineers
 KEYWORDS: TABLES (DATA); ELECTRIC VEHICLES;
 BATTERIES; FUEL CELLS; GASOLINE; ENGINES;
 ENERGY CONSUMPTION; CONSTRUCTION; COMPARATIVE
 EVALUATIONS; INTERNAL COMBUSTION ENGINES
 AVAILABILITY: Society of Automotive Engineers
 Inc., 400 Commonwealth Drive, Warrendale, PA
 15096

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 Williams, L.J.
 National Aeronautics and Space Administration,
 Ames Research Center
 ADDRESS: Moffett Field, CA 94035
 TITLE: Air Transportation Energy Efficiency

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SPONSOR: Energy Research and Development Administration

KEYWORDS: AIR TRANSPORTATION; EFFICIENCY; ENERGY CONSUMPTION; NASA; AIRCRAFT; GRAPHS (CHARTS); FUEL CONSUMPTION

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Wilson, C.L.

Massachusetts Institute of Technology, Workshop on Alternative Energy Strategies (WAES)

ADDRESS: Cambridge, MA 02139

TITLE: Energy: Global Prospects 1985-2000

Report of the Workshop on Alternative Energy Strategies (WAES), 291 p.

1977

SPONSOR: National Science Foundation

KEYWORDS: ENERGY SUPPLIES; ENERGY DEMAND; ENERGY CONSUMPTION; FORECASTING; GROWTH; PRICES; FUELS; ENERGY CONSERVATION; PETROLEUM; RESERVES; OPEC; INTERNATIONAL TRADE; NATURAL GAS; PRODUCTION; COAL; NUCLEAR ENERGY; FOSSIL FUELS; UNCONVENTIONAL ENERGY SOURCES; TABLES (DATA); RECOVERY; DEVELOPING COUNTRIES; SUPPLY (ECONOMICS); DEMAND (ECONOMICS); GRAPHS (CHARTS); ENERGY BALANCE; INTERNATIONAL ANALYSIS

AVAILABILITY: McGraw-Hill Book Co., New York, NY

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Wilson, D.G.

TITLE: Alternative Automobile Engines

Scientific American, 239(1), 39-49

1978, July

KEYWORDS: ENGINES; DIAGRAMS; DIESEL ENGINES; SPARK IGNITION ENGINES; RANKINE CYCLE ENGINES; STIRLING ENGINES; BRAYTON CYCLE; COMPARATIVE EVALUATIONS; GAS TURBINE ENGINES; ELECTRIC VEHICLES; EFFICIENCY; AUTOMOTIVE EMISSIONS; COSTS; STRATIFIED CHARGE ENGINES; MANUFACTURING

<767>

Winfrey, R.; Howell, P.D.; Kent, P.H.

U.S. Dept. of Transportation, Federal Highway Administration, Offices of Research and Development, Environmental Design and Control Division

ADDRESS: Washington, DC 20590

TITLE: Truck Traffic Volume and Weight Data for 1971 and Their Evaluation

Report No. PB-271365, PHVA-RD-76-138, 159 p.

1976, December

KEYWORDS: TRUCKS; HIGHWAY TRANSPORTATION; WEIGHT; CLASSIFICATIONS; TABLES (DATA); FUELS; TRAFFIC

AVAILABILITY: NTIS

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Withrow, J.D., Jr.; Franceschini, J.P.

Chrysler Corp.

ADDRESS: Detroit, MI

TITLE: Engines for Tomorrow's Passenger Cars

Paper No. 760610, presented at the Society of Automotive Engineers' West Coast Meeting, San

Francisco, California, August 9-12, 1976, 9 p.

1976

SPONSOR: Society of Automotive Engineers

KEYWORDS: ENGINES; POLLUTION CONTROL; FUEL ECONOMY; COMPARATIVE EVALUATIONS; SPARK IGNITION ENGINES; STIRLING ENGINES; DIESEL ENGINES; WANKEL ENGINES; RANKINE CYCLE ENGINES; STRATIFIED CHARGE ENGINES; GAS TURBINE ENGINES; POLLUTION REGULATIONS; GRAPHS (CHARTS); ELECTRIC VEHICLES; AUTOMOTIVE EMISSIONS

AVAILABILITY: Society of Automotive Engineers, Inc., 400 Commonwealth Drive, Warrendale, PA 15096

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Wolfe, A.C.

Michigan, University of, Highway Safety Research Institute

ADDRESS: Ann Arbor, MI 48109

TITLE: Annotated Bibliography on Highway Travel Exposure Research Methods

Report No. PB-279862, DOT-HS-803295, Interim Report, 53 p.

1978, January

SPONSOR: U.S. Dept. of Transportation, National Highway Traffic Safety Administration

KEYWORDS: BIBLIOGRAPHIES; RESEARCH; VEHICLE MILES TRAVELED; HIGHWAY TRANSPORTATION; SAFETY; ACCIDENTS; AUTOMOBILE DRIVERS; AUTOMOBILE REGISTRATIONS; TRANSPORTATION; MOTOR VEHICLES; AUTOMOBILES; TRUCKS; TRAVEL; QUESTIONNAIRES; SURVEYS

AVAILABILITY: NTIS

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Wosach, J.P.

Massachusetts Institute of Technology, Center for Transportation Studies

ADDRESS: 77 Massachusetts Ave., Cambridge, MA 02139

TITLE: Regulating and Insuring Pre-Arranged Ride Sharing

Report No. PB-269574, DOT-TST-76T-33, 58 p.

1976, September 30

SPONSOR: U.S. Dept. of Transportation, Office of the Secretary, Office of University Research

KEYWORDS: CARPOOLING; VANPOOLS; BUSES (VEHICLES); REGULATIONS; PASSENGER TRANSPORTATION; PARATRANSIT; SURVEYS; URBAN TRANSPORTATION; INSURANCE; OWNERSHIP; STATE ANALYSIS

AVAILABILITY: NTIS

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Wouk, V.

Petro-Electric Motors Ltd.

TITLE: An Experimental ICE/Battery-Electric Hybrid with Low Emissions and Low Fuel Consumption Capability

Paper No. 760123, paper presented at the Automotive Engineering Congress and Exposition, Detroit, Michigan, February 23-27, 1976, 25 p.

1976

SPONSOR: Society of Automotive Engineers

KEYWORDS: ELECTRIC VEHICLES; FUEL CONSUMPTION; FUEL ECONOMY; ENERGY CONSERVATION; BATTERIES; PERFORMANCE; AUTOMOTIVE EMISSIONS; HYBRID ELECTRIC-POWERED VEHICLES; GRAPHS (CHARTS); DRIVE TRAIN SYSTEMS; DIAGRAMS; TABLES (DATA); ENERGY STORAGE

AVAILABILITY: Society of Automotive Engineers, 400 Commonwealth Drive, Warrendale, PA 15096

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 Yunker, K.R.; Sinha, K.C.
 Southeastern Wisconsin Regional Planning
 Commission; Purdue University, School of
 Engineering
 ADDRESS: SWRPC, Waukesha, WI; PU, Lafayette, IN
 TITLE: Energy Considerations in Urban
 Transportation Planning

Traffic Quarterly, 29, 571-592
 1975, October
 KEYWORDS: URBAN TRANSPORTATION; FUEL CONSUMPTION;
 PETROLEUM; ENERGY SUPPLIES; ENERGY DEMAND;
 ENERGY SHORTAGES; VEHICLE MILES TRAVELED;
 VEHICLES; EFFICIENCY; AUTOMOBILES; BUSES
 (VEHICLES); RAIL TRANSPORTATION; VEHICLE
 TRIPS; TABLES (DATA); AUTOMOBILE OCCUPANCY;
 PLANNING; GRAPHS (CHARTS); MODELS

<773>
 Fahavi, Y.
 ADDRESS: 7304 Broxburn Ct., Bethesda, MD 20034
 TITLE: The Effects of Transportation Systems on
 the Spatial Distributions of Population and
 Jobs

Paper presented at the Joint National Meeting of
 the Operations Research Society and the
 Institute of Management Science, Miami, FL,
 November 3-5, 1976, 22 p.
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 KEYWORDS: TRANSPORTATION SYSTEMS; DISTRIBUTION;
 POPULATION (STATISTICS); EMPLOYMENT; URBAN
 AREAS; URBAN TRANSPORTATION; MODELS; GRAPHS
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 Sandi, I.; Allen, W.B.; Horlok, E.R.; Ginn, K.;
 Plaut, T.; Warner, J.
 Pennsylvania, University of, Dept. of Civil and
 Urban Engineering
 ADDRESS: Philadelphia, PA 19174
 TITLE: Transport of Solid Commodities Via Freight
 Pipeline. Volumes I-V

Report No. DOT-TST-76T-35, 52 p. for Volume I;
 DOT-TST-76T-36, 74 p. for Volume II;
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 1976, July
 SPONSOR: U.S. Dept. of Transportation, Office of
 University Research
 KEYWORDS: COMMODITIES; INTERCITY TRANSPORTATION;
 COMPARATIVE EVALUATIONS; CARGO
 TRANSPORTATION; PIPELINE TRANSPORTATION; RAIL
 TRANSPORTATION; HIGHWAY TRANSPORTATION;
 GRAPHS (CHARTS); TABLES (DATA); COSTS;
 MATHEMATICAL MODELS; DEMAND (ECONOMICS);
 SLURRY PIPELINES; PNEUMATIC TRANSPORT;
 SERVICES; ENVIRONMENTAL IMPACT; TRUCKS
 AVAILABILITY: NTIS

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 Ziff-Davis Publishing Co.
 ADDRESS: One Park Avenue, New York, NY 10016
 TITLE: Car and Driver

Monthly publication, v.p.
 Monthly
 KEYWORDS: AUTOMOBILES; MANUFACTURERS; ROAD TESTS;
 FUEL ECONOMY; DESIGN; HIGHWAY TRANSPORTATION;
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 PERFORMANCE; BRAKES; PRICES; AUTOMOTIVE
 TRANSMISSIONS; AUTOMOBILE DRIVERS; WAWS;
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 Zupar, J.H.; Pusharev, B.
 Regional Plan Association
 ADDRESS: New York, NY
 TITLE: Where Express Buses Work

Paper published in Transportation Research Record
 626, 35-38

1977
 SPONSOR: U.S. Dept. of Transportation, Urban Mass
 Transportation Administration; Ford
 Foundation; Rockefeller Foundation
 KEYWORDS: RESIDENTIAL SECTOR; URBAN AREAS;
 COMMUTERS; BUSES (VEHICLES); PARKING;
 PASSENGER TRANSPORTATION; COSTS
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Ave. NW, Washington, DC 20418
 \$2.20 for Transportation Research Record 626

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 Zwanzig, F.R. (ed.)
 National Academy of Sciences, National Research
 Council, Transportation Research Board
 ADDRESS: 2101 Constitution Avenue NW, Washington,
 DC 20418
 TITLE: Transit Planning and Operations

Transportation Research Record 625, 66 p.
 1977
 KEYWORDS: PASSENGER TRANSPORTATION; MARKETING;
 PLANNING; ATTITUDES; COSTS; BUSES (VEHICLES);
 AUTOMOBILES; MASS TRANSPORTATION; MODELS;
 RAIL TRANSPORTATION; SURVEYS; TABLES (DATA);
 GRAPHS (CHARTS)
 AVAILABILITY: National Academy of Sciences,
 Transportation Research Board, 2101
 Constitution Avenue NW, Washington, DC 20418
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AUTHOR INDEX

AUTHOR INDEX

- Abbasi, S.R. 1
 Abbott, P.K. 2
 Adams, P.G. 4
 Adams, G.H. 5, 6
 Adams, G.H. (ed.) 7
 Agent, K.R. 495
 Agnew, H.G. 10
 Albers, J.P. 14
 Allen, E.L. 15
 Allen, E.W. (ed.) 16
 Allen, H.R. 17
 Allen, W.B. 774
 Altendorf, J.P. 18, 19
 Andersen, C.J. 30
 Anderson, D.W. 31
 Anderson, W.K. 32
 Andrews, R.D. 33
 Angell, P.R. 34
 Antonini, C. 130
 Askin, A.B. (ed.) 37
 Asselman, G.A.A. 38
 Avriel, H. 45
 Ayers, J.A. 534
 Ayres, P.U. 46
 Backus, G.A. 442
 Bader, C. 47, 48
 Baisley, W.H. 373
 Baker, R.P. 402
 Balasubramanian, H. 49
 Balkus, K. 50
 Banovetz, R.A. 51
 Barber, B.Y. 314
 Barber, K.P. 349
 Barrett, R.J. 345
 Barron, W. 52
 Barry, F.G. 53
 Barth, J. 617
 Basile, P.S. (ed.) 54
 Batchelder, J.H. 584
 Batts, L.R. 228
 Baumgarten, G.P. 540
 Baviec, W.J. 14
 Bayler, T. 55
 Beachley, N.H. 56
 Bebbe, P.S. 396
 Bechtold, R.L. 57, 58, 59
 Becker, B.W. 60
 Beglinger, P.E. 61
 Behling, D.J., Jr. 62
 Behnan, J. 61
 Behrends, S. 253
 Behrin, E. 63, 155
 Beller, H. 274
 Belloso, S.J. 64, 65
 Ben-Akiva, H. 66
 Bernard, H.J. 67
 Bernhardt, W. (chairman) 68
 Bernier, J. 99, 312
 Bernstein, G.J. 126, 127
 Bevilacqua, O.H. 99, 312, 313
 Bhagat, W. 274
 Bhatt, K. 554
 Bigelow, C.D. 69
 Billing, J.R. 70
 Bintz, L.J. 51
 Birss, E.W. 71
 Bishop, H. 343
 Bisselle, C.A. 72
 Bjerklie, J.W. 73
 Blomquist, A.P. 74
 Blumberg, P.W. 409, 410
 Bobit, E.J. 75
 Boles, P.B. 76
 Bolger, J. 63
 Bolger, J.G. 77, 78, 79
 Bolis, D.A. 80
 Bon, R. 81
 Bonham, C.H. 593
 Boori, J.O. 748
 Bordeaux, C.B. 105
 Borden, C.S. 291
 Boretsky, H. 86
 Borg, I.Y. 155
 Bowman, J.R. 159
 Bozek, J.H. 589
 Brainard, J.P. 440
 Branlett, G.A. 482
 Braun, R.P. 87
 Brennan, J. 88, 89
 Bressler, L.D. 760

AUTHOR INDEX

- Brewer, K.A. 533
 Brinkman, W.D. 96
 Bronitsky, L. 97
 Brooks, W.P. 744
 Brooman, E.W. 736
 Brown, D.J. 60
 Browning, L.H. 488
 Bruce, P. 98
 Bruck, H.W. 99, 312
 Bufferd, A. 546
 Bullard, C.W. 100
 Burke, D. 101
 Burkhalter, D.A. 169
 Burnkrant, R.E. 312
 Burns, L.D. 102
 Busching, H.W. (ed.) 103
 Busi, J.N. 104
 Butler, D.L. 533
 Byers, L. 105
 Cadotte, E.P. 106
 Cairns, F.J. 73
 Callen, R. 80
 Campbell, A.D. 226
 Campbell, E.A. 108, 109
 Campbell, K. 110
 Cantwell, C. 414
 Carlon, S.Z. 319, 320
 Carr, F.S. 111
 Carriere, W.H. 152
 Carroll, T.O. 112, 113
 Carrubba, R. 290
 Carter, J.C. 114
 Cataldo, P.L. 115
 Cato, D. 116, 117
 Ceppos, R. 118
 Champlin, P. 482
 Chan, Y.K. 312
 Chang, G.C. (ed.) 119
 Chang, H. 290
 Chang, H.C. 120
 Cherniavskv, E.A. 125
 Chesshire, L.H. 580
 Chiang, H.S. 539
 Chiao, T.T. 532
 Chilenskas, A.A. 126, 127, 471, 619
 Chiogioji, H.H. 128
 Chng, K.H. 256
 Ciachette, I.R. 129
 Ciccarone, A. 130
 Clark, J.W. 140
 Clark, H. (ed.) 141, 142, 143, 144, 145
 Clarke, J.M. 595
 Clarkey, A. 146
 Clayton, C.A. 760
 Cockle, G.R. (ed.) 147
 Cohen, G.S. 148, 199, 288
 Cohen, S.B. 149
 Colello, R.G. 150
 Coleman, W.T., Jr. 151
 Collins, H.H. 152
 Collus, T. 354
 Cook, J.A. 154
 Coonley, P. 546
 Cooper, C.L. 15
 Cooper, E. 600
 Cooper, J.P. 155
 Corradino, J.C. 557
 Corrigan, R. 156
 Corsi, T.H. 157
 Costello, H. 97
 Covault, D.O. (ed.) 103
 Craae, J.E.A. 126
 Crane, D.P. 159
 Crawford, E. 52
 Crier, E.S. 160
 Cronin, R.H. 293
 Cuffe, K.W. 161
 Cunningham, W.H.J. 601
 Curry, E. 238
 Curtis, R. 89
 Curtis, V. (ed.) 162
 Cyrus, J.D. 163
 Dabberdt, W.F. 618
 Dajani, J.S. 164
 Darling, E. 189
 Davey, T.H. 301
 Davidoff, J.W. 125
 Davis, C. 176
 Davis, D.D. 166, 167, 168
 Davis, F.W. 169

AUTHOR INDEX

- Davis, F.W., Jr. 170
 Davis, H.E. 628
 Davis, P. 788
 Davis, W. 105
 Dayson, B., Jr. 171
 Dean, .L. (ed.) 103
 Deephouse, C.V. 539
 DeGrey, S.P. 369
 Delamater, W.R. 498
 Demetsky, H.J. 172
 Denington, R.J. 188, 589
 Dennis, A.W. 173
 Deosaran, G. 178
 DeRaad, L.W. 175
 Deutschen, H. 355
 DeWolf, J.B. 176
 Dial, R.B. 68
 Dicke, K. 253
 Dickson, E.H. 177
 Dietz, H. 178
 DiGregorio, R. 518
 Dodd, J.L. 299
 Doernberg, A. 179
 Doggett, R.H. 180, 181
 Dohner, A.P. 182
 Donnelly, J.J., Jr. 183
 Dougherty, C.D. 837
 Drago, V.J. 186
 Duclos, D.P. 301
 Duffey-Armstrong, H. 618
 Duffy, H.A. 186
 Duffy, T.E. 545
 Dulla, R. 403, 404, 405
 Dullivan, D. 729
 Dunlap, J.R. 75
 Dupree, W.G., Jr. 187
 Dustin, H.O. 188, 589, 590
 Ebersole, W. 189
 Ecklund, E.E. 190
 Eder, L. 55
 Edmonds, F.C. 15
 Edmonds, J.A. 15
 Ehrenfeld, J.R. 256
 Eiden, G.L. 186
 Eiseler, H. 418
 Ellis, H.T. 293, 294
 Emerson, J. 556
 Engelen, R.E. 196
 Englander, I. 189
 Englehart, J.E. 197
 Epps, R.C. 77, 167, 168
 Erisman, L.R. 111
 Erlbaum, H.S. 148, 198, 199, 200, 341
 Escher, W.J.D. 234
 Esposito, V.J. 202
 Evans, L. 204, 205
 Fairweather, R.G. 209
 Fazzolare, F.A. (ed.) 212
 Fels, H.F. 223
 Fendell, F. 224
 Finegold, J.G. 369
 Fishman, H.H. 485
 Fitzgibbons, R.G. 378
 Fleming, R.D. 58, 226
 Flott, A.C. 228
 Flynn, L. 229, 230
 Foley, J.T., Jr. 173
 Forbes, C.E. 231
 Forrest, L. 301
 Fort, F.W. 232
 Foster, R.W. 233, 234
 Fox, H. 89
 Frabetti, A.J., Jr. 235
 Fraize, W.E. 236
 Franceschina, J.P. 768
 Frank, A.A. 56
 Freedman, H. (ed.) 264
 Frenkel, L. 189
 Fried, H. 237
 Friedenber, R.L. 238, 526
 Fucinari, C.A. 154
 Fuller, R.P. 239
 Gaddy, J.L. 240
 Galbraith, A.D. 241
 Gallopoulos, N.E. 96
 Gamble, H.B. 243
 Garcia, A. 556
 Garthner, R. 617
 Gay, W.P. 244, 245
 Gerlough, D.L. 267

AUTHOR INDEX

- Gillespie, W. 105
 Gilliland, H.W. (ed.) 251
 Ginn, K. 774
 Glauz, W.D. 252
 Goeldner, C.F. 253
 Goen, P.L. 254
 Goerlach, U. 255
 Goldfish, J.C. 256
 Goldmann, C.F. 257
 Golac, T. 34
 Golfin, L.S. 437
 Golob, T.V. 102, 250, 514
 Goninan, W.G. 259
 Gooding, D.I. 260
 Gordon, H. 235
 Gott, P. 729
 Goudarzi, G.H. 14
 Gould, H.H. 262, 386
 Graae, J.E.A. 619
 Graham, W. 4
 Gray, R. 263
 Gray, S. 551
 Green, C.L. (ed.) 264
 Green, G.P. (ed.) 264
 Green, H.I. 79
 Greene, D.L. 265, 266, 577
 Greenshields, B.D. 267
 Grenfell, A. 1
 Grier, F.S. 270
 Griffin, J.H. 4
 Grocki, J.J. 593
 Gronau, R. 271
 Grouni, H.W. 70
 Guess, R.H. 272
 Gunnesson, S.G. 547
 Gunvaldsen, D. 274
 Haaland, C. 97
 Haefele, K. 275
 Hagen, D.L. 276
 Hagev, G. 281
 Hahn, U. 277
 Hahn, W.P. 412
 Hajj, H.H. 552
 Hall, C.H. 593
 Hamilton, C.W. 106
 Hamilton, S.C. 534
 Hamilton, W. 89, 278, 279, 280, 281, 546
 Hamilton, W.F. 282
 Hammer, P. 283
 Hanson, E.K. 284
 Harding, G.G. 285
 Harris, R.G. 286
 Harsch, W.C., Jr. 111
 Hartgen, D.F. 148, 199, 287, 288
 Hartman, W.F. 173
 Harvey, H.E. 157
 Havens, J. 237
 Healy, R.G. 289
 Heck, R.H. 290
 Heft, R.C. 291
 Heggie, I.G. (ed.) 292
 Heinemann, P.C. 176
 Heller, H. 181
 Henderson, C. 293, 294
 Hensher, D.A. 295
 Herman, R. 205
 Herniter, J.D. 548
 Hertzfeld, H.R. 289
 Hess, H. 290
 Hibbs, A.R. 296
 Hicks, G. 297
 Hill, S.H. 298, 299
 Hills, P.J. 300
 Rinton, H.G. 301, 363
 Hitchings, J.S. 32
 Hoch, I. 303
 Hoel, L.A. 172
 Hoey, W.P. 304
 Hofbauer, P. 305
 Holmes, E.H. 306
 Hooper, W.J. 593
 Hopkins, J.B. 307, 308
 Hornberger, H.L. 488
 Horner, A.L. 591
 Hornkohl, C. 75
 Hornstra, F. 126
 Horowitz, A.D. 309, 310
 Horowitz, J. 311
 Rousse, P.F. 312, 313
 Rouser, P.W. (ed.) 147

AUTHOR INDEX

177

- Howard, E.B. 318
Howell, P.D. 767
Howland, H.I. 312
Hsia, H. 386
Hubbard, H. 500
Huber, H.J. 267
Huddleston, P.L. 315, 316
Hudson, C.L. 63
Husnon, W.P. 317, 318
Hurter, D. 729
Iberall, A.S. 319, 320
Ike, A. 482
Isai, K. 321
Irick, P.E. 331
Iura, T. 363
Ivory, H.E. 254
Ivins, F.O. 126, 127, 619
Jackson, H.W. 96
Janicki, E. 333
Jansen, J.F. 77
Jarvis, J.J. 557
Jefferies, K. 615
Jelavich, H.S. 334
Jenkins, R. 49
Johnson, H.H. 80
Jones, D.W. 312, 313
Jones, D.W., Jr. 99
Jones, P.S. 385
Jones, T.R. 390
Jordan, A.C. 314
Judd, D. 111
Juneja, V.K. 335
Kaiser, R. 546
Kalberlah, A. 18, 19
Kalish, S.J. 336
Kaplan, J.A. 337
Kaprelian, A. 611
Kasum, F. 338
Katada, H. 338
Keane, H.A. 334
Keck, C.A. 341
Keller, J.L. 342
Kelly, J.J. 318, 316
Kelly, W.J. 338
Kennedy, J.H. 492
Kent, P. 343
Kent, P.H. 767
Keyani, B.I. 344
Kidman, R.B. 345
Kilpatrick, H.E., Jr. 606
King, J.A. 346, 347
King, P. 531
King, Y.T. 531
Kingham, R.I. 348
Kirk, R.S. 349
Kirkwood, T.F. 605
Kirschten, J.D. 156
Kirsten, F.A. 2, 78
Kivestu, P. 481
Klann, J.L. 350
Klonster, L. (ed.) 351
Kneafsey, J.T. 539
Knight, C.E. 315, 316
Knight, L.W. 352
Knighton, R.G. 200
Knoop, C.W. 731
Knox, R. 353
Koch, E.H. (ed.) 147
Koenig, D.R. 345
Kolba, V.H. 126
Koppalaan, F. 354
Kraft, J. (ed.) 37
Kraft, W.H. 355
Kraus, E.E. 356
Kuhlman, K.R. 357
Kulash, D.J. 358
Kyden, A.S. 112, 125
LaBelle, S.J. 67
LaBelle, S.J. (ed.) 359
Lago, A.H. 541, 542
Lan, T.H. 205
Landgrebe, A.A. 360
Landsman, A. 361
Lang, S.L. (ed.) 362
Langdon, H.G. 33
Lapides, D.E. 363
Largo, D.D. 364
Larson, D.W. 173
Larson, K.J. 17
Laughlin, O.B.Q. 365

AUTHOR INDEX

- Lee, J. 366
 Leenbruggen, L.R. 367
 Lehmann, E.J. 368
 Leising, C.J. 369
 LeMa^t, H.P. 347
 Leonard, R.W. 370
 Lersan, S.R. 66, 371, 372
 Lerner, S.S. 167, 168
 Leshner, F. 373
 Leshner, H.D. 373
 Leung, T. 531
 Levine, B. 526
 Levine, C.A. 374
 Levinsohn, D.H. 375
 Levinson, H.S. 304
 Liff, S.D. 377
 Likos, W.E. 488
 Lindgren, L. 378
 Lindscheid, J.W. 154
 Lipmann, S.A. 380
 Lochow, P. (ed.) 103
 Loebel, A.S. 577
 Loscutoff, W.V. 382
 Louion, W. 613
 Lovell, P.A., Jr. 235
 Loxley, C.J. 558, 559, 560
 Ludwick, J.S., Jr. 98
 Lundholm, S.G.K. 507
 Lustenader, P.L. 272
 Lutin, J.N. 383
 Maddox, K. 235
 Maio, D.J. 384
 Mak, K.F. 385
 Malliaris, A.C. 262, 386
 Mandelker, D.P. 387
 Marcus, A. 388, 389
 Marek, C. 390
 Marshall, W.F. 59, 392, 393
 Martin, W.V. (ed.) 394
 Martini, W.P. 395
 Mason, P.V. 593
 Mason, W.T., Jr. 396
 Mathews, H. 729
 Maximina, D.F. (compiler) 397
 Mayer, J.G. 495
 McCarthy, K.P. 398
 McCormack, H.C. 488
 McCormick, J. 551
 McFarland, W.F. 101
 McGillivray, R.G. 399
 McKetta, J. 401
 McLilli, K.L. 544
 McLean, A.F. 402
 McNutt, B. 403, 404
 McNutt, B.D. 405
 McQueen, J.T. 375
 Mead, W.J. 406
 Mehra, J.J. 65
 Meijer, R.J. 38
 Hellaan, R.S. 408
 Meltzer, J. 363
 Meltzer, N. 384
 Mencik, Z. 409, 410
 Metcalf, E. 729
 Metters, J.J. 380
 Meyer, R. 180, 181
 Meyerhoff, N. 189
 Miao, D. 615
 Mighdall, P. 412
 Mikel, S.A. 74
 Miles, D.L. 413
 Milic, P.L. 341
 Millar, M. 67
 Miller, A.B. 77
 Miller, C. 404
 Milne, J.A. 414
 Miner, D.K. 415
 Mischon, R.M. 252
 Mitric, S. 416
 Mittal, R.K. 417, 419, 420
 Mittal, R.K. (ed.) 418
 Mobley, E.R. (compiler) 421
 Mobley, E.R. (ed.) 397
 Moncrief, L.W. 422
 Monford, L.G. 423
 Moon, A.E. 424, 425, 426
 Moore, H. (ed.) 427
 Morlok, E.K. 428, 774
 Morrison, J. 189
 Morrison, P.A. 398, 429

AUTHOR INDEX

- Houser, T.W. 422
 Hudge, R.R. 358, 434
 Hufti, R.K. 437
 Hullen, D.R. 2
 Hundt, B.M. 438
 Hundy, P.A. 439
 Hunson, J.S. 440
 Hurawski, C.A. 475
 Hurrell, J.D. 441
 Hurry, P. 550
 Nachman, J.F. 545
 Naill, P.F. 442
 Naito, S. 338
 Nakaguchi, G.H. 342
 Nathans, R. 113
 Naughton, J. 784
 Negreanu, H.J. 487
 Nelson, P.A. 360, 471
 Neveu, A.J. 472
 Newell, A.T. 308
 Ng, L.S. 79
 Niccoletti, N. 473
 Nichols, H.W. 474
 Nicol, J. 729
 Nicolaidis, G.C. 258, 475
 Niepoth, G.W. 413
 Noble, S. 46
 Noe, L.R. (ed.) 476
 Norman, T.A. 477
 O'Connell, L.G. 63, 77, 155, 166
 O'Connor, T.P. 265, 266, 577
 O'Sullivan, P. 354
 Obinani, F.C. 480
 Oblizajka, K.L. 380
 Odendi, A.R. 481
 Oden, E.P. 482
 Oen, K. 170
 Ogle, W.C. 577
 Oliver, R.W. 297
 Oliver, R.C. 530
 Olson, R.J. 483
 Olschtruppen, P.J. 485
 Olszewski, P.W. 111
 Olszewski, P.W. 111
 Olszewski, P.W. 111
 Olszewski, P.W. 111
 Olszewski, P.W. 111
 Patel, J.G. 486
 Patterson, P.D. 266, 577
 Paul, P.W. 487
 Pefley, R.K. 488
 Penner, P.S. 100, 489
 Perkins, E.L. 252
 Peraut, H. 490
 Petersen, G.L. 297
 Petracek, S.J. 491
 Petrocelli, A.W. 492
 Phoebe, C.H. 494
 Pigman, J.G. 495
 Pigott, J.S. 748
 Pilati, D.A. 100
 Pinkus, O. 389
 Pirkey, D. 403, 404, 405
 Pitrak, P. 422
 Plaut, T. 774
 Plust, H.G. 47
 Podolske, R.C. 87
 Poole, B. 757
 Potter, D.S. 583
 Pouliot, H.N. 499
 Povel, S.F., III 499
 Powell, J.D. 500
 Pozdena, R.J. 501
 Pratsch, L. 263
 Prerau, D. 189
 Proctor, H.S. 426
 Prywes, D. 358
 Pucher, J. 505
 Pucher, J.R. 506
 Pullman, B. 488
 Purohit, G.P. 369
 Pusharev, B. 776
 Pushkarev, B.S. 508
 Putnam, E.S. 344
 Rabe, F.T. 509, 510, 511
 Raber, P.T. 546
 Rahnke, C.J. 154
 Razzella, A. 53
 Raschbichler, H.G. 512
 Raynard, A.E. 166
 Rechel, R. 511
 Recker, W.W. 514

AUTHOR INDEX

- Reed, H.D. 518
 Requeiro, J.P. 520
 Reichenbach, R.E. 430
 Reichman, S. 521, 522
 Reilly, J. 523
 Reilly, J.J. 524
 Reinink, P. 738
 Reister, D.B. 15, 525
 Renner, R.A. 167, 168
 Renshaw, V. 526
 Reynen, T.A. 554
 Rice, P.L. 527, 528
 Rice, R.G. 529
 Riddell, P.R. 530
 Rieber, M. 531
 Rinde, J.A. 532
 Ring, S.L. 533
 Rishavy, E.A. 534
 Roan, V.P. 535
 Roberts, P.O. 536, 537, 538, 539
 Robertson, B. 540
 Robicheaux, R.A. 106
 Robinson, C.W. 498
 Roche, G. 541, 542
 Rodekoer, H. 116, 117
 Roelke, P.J. 544
 Roessler, W.U. 183
 Rogers, G.W. 406
 Rohy, D.A. 545
 Rooney, L.P. 14
 Roos, H. 518
 Rose, A. 419
 Rose, A.B. 266, 577
 Rosenberg, M. 499, 546
 Rosengvist, J.K.G. 547
 Rosenthal, S.R. 548
 Ross, J.A. 549
 Roth, R.D. 228
 Rothenberg, J. 505
 Rowlett, B.H. 166, 550
 Rubin, R. 63, 155
 Rubin, D. 189
 Ruscitto, D. 551
 Ryan, J.W. 177
 Sacco, J.P. 552
 Salzano, F.J. 568
 Samuel, J.H.G. 553
 Samuelson, R.D. 539
 Samuelson, R.J. 156
 Sanborn, J. 112
 Sanders, D.B. 554
 Sandys, R.C. 618
 Santasaria, J. 420
 Sargent, M.B. 590
 Saridakis, N. 19
 Sasaki, B.R. 555
 Sasser, J. 556
 Schaeffer, K.H. 189, 600
 Schary, P.B. 60
 Schiff, S. 97
 Schimpeler, C.C. 557
 Schink, G.R. 558, 559, 560
 Schleyerbach, C.G. 300
 Schmidt, F.W. 561
 Schwartz, H.J. 562, 563, 564
 Schwartz, H.L. 565
 Schwartz, H.W. 63
 Schwarz, R. 566
 Scott, R. 110
 Seaborn, C.C. 314
 Seda, B. 567
 Seminoff, S.A. 312
 Sevan, W.A. 568
 Shaffer, G.L. 14
 Sharp, D.P. 317, 318
 Shaughnessy, A.E. 569
 Shaw, M.L. 570
 Sheahan, R.R. 301
 Sheldon, C., II 235
 Shelton, E.H. 571, 572, 573, 574
 Sherrer, R.W. 575
 Sheth, J.N. 310
 Shibata, T. 338
 Shonka, D.B. 266, 576, 577
 Shugart, H.H. 482
 Silberman, J.B. (ed.) 578, 579
 Silence, S.H. 580
 Sinha, K.C. 772
 Skinner, L.E. 582
 Slavick, S.R. 200

AUTHOR INDEX

Slavecki, H.A. 126
 Smith, C.B. (ed.) 212
 Smith, J.R. 583
 Smith, R.B. 53
 Smith, R.Z. 406
 Saulyan, H.H. 177
 Sobel, K.L. 584
 Sokolsky, S. 587
 Soltis, R.F. 588, 589, 590
 Soo, S.L. 531
 Sours, S. 617
 Southard, L.G. 591
 Spann, G.W. 593
 Sparks, W.D. 594
 Spenny, C.H. 595
 Soigt, C.L. 38
 Springer, K.J. 596
 St. John, A.D. 252
 Stamper, H.A. 387
 Stamper, K.R. 392, 393
 Starling, F. 263
 Stearns, H.D. 600
 Stenger, A.J. 601
 Stephan, W. 48
 Stern, F. 113
 Steunenberg, R.K. 471
 Stewart, J.R. 760
 Stockdale, R. 256
 Stone P.G. (ed.) 119
 Stone, P.G. 532
 Stopher, P.F. 522, 602, 603
 Stortstrom, R.G. 164
 Stout, P.W. 557
 Stover, R.B. 352
 Straszheln, H.W. 604
 Stratton, L. 729
 Strong, S. 729
 Stucher, J.P. 605
 Sato, P.L. 606
 Sutton, E.R. 748
 Swan, K.B. 301
 Sweeney, J.L. 116, 117, 607, 608
 Swoozy, H. 174
 Swetnam, G.F., Jr. 98
 Tacina, R. 610
 Tap, R. 611
 Taussig, W.H. 612
 Teal, R. 613
 Teeters, P. 729
 Terziev, H.H. 539
 Tew, R. 615
 Tew, R.C., Jr. 350
 Thall, H. 237
 Thompson, D.L. 617
 Thuillier, R.H. 618
 Tobias, C.W. 73
 Tobler, W.E. 410
 Tolkin, S. 110
 Towle, W.L. 619
 Tracy, J.C. 583
 Trentacoste, M.F. 200, 341
 Trowt, F.D. 256
 Turner, D.B. 2
 Turner, D.D. 623
 Turner, F.C. 624
 Turner, L.R. 104
 Ulrichson, D.L. 728
 Underhill, B. 729
 Unger, V.E. 557
 Unnevehr, L.E. 731
 Vaaler, L.E. 736
 Valentine, R.W. 335
 Van Abkoude, J.C. 737
 Van Duzee, R. 174
 van Giessel, R. 738
 Velona, W.D. 739
 Veziroglu, T.W. (ed.) 740
 Virgilio, U. 130
 Virkler, H.R. 172
 Voltz, S.E. 741
 Voorhees, A.H. 64
 Vuchic, V.R. 70, 490
 Wagner, C.E. 561
 Wagner, J.R. 744
 Wagner, R.D. 370
 Waide, C.H. 63, 528
 Wakefield, E.H. 745
 Walbridge, E.W. 67, 746
 Walderhaug, A.J. 747
 Walker, B.H. 17

AUTHOR INDEX

Walker, D.L. 748
Wallace, R.I. 79
Walsh, W.J. 63
Walz, A. 749
Wang, G.H. 384
Ware, J.C. 342
Warner, D.B. 164
Warner, J. 774
Warner, P. 751
Werner, S.E. 166
Watts, W.W. 752
Webster, W.H. (ed.) 753
Weida, P.H. 267
Weigel, W. 754
Weiner, G.A. 755
Weinberg, A.M. 15
Weinberg, M. 52
Weiner, P. 756, 757
Welan, U.P. 548
Westfield, J.D. 235
Westley, G.W. 483
Whately, A. 105
Wheeler, P.K. 434, 758
White, K.E. 759
White, S.B. 760
Whittier, A. 729
Whittle, C.E. 15
Wiedenmann, B. 305
Wiener, H. 155
Wilburn, M.C. (ed.) 761
Wilcock, D.K. 235
Wilhelm, J.P. 294
Williams, G.P., Jr. 762
Williams, K.R. 763
Williams, L.J. 764
Wilson, C.L. 765
Wilson, D.G. 73, 766
Wilson, L.B. 539
Winfrey, R. 767
Wise, J.J. 741
Wiswall, R.H. 524
Withrow, J.D., Jr. 760
Wolfe, A.C. 769
Wolfe, H. 518
Womach, J.P. 770

Womack, R.R. 231
Wood, E., Jr. 613
Wood, R.K. 570
Wooldrige, G.A. 549
Wouk, V. 771
Wu, H. 531
Wu, J. 531
Yeh, J.W. 71
Younger, F.C. 167, 168
Yunker, K.R. 772
Zahavi, Y. 773
Zahradnik, A.R. 312
Zandi, I. 774
Zegeer, C.V. 495
Zelby, L.W. 15
Zemotel, L.H. 317, 318
Zeman, J.C. 482
Zupan, J.H. 508, 776
Zwanzig, F.R. (ed.) 777

CORPORATE AUTHOR INDEX

CORPORATE AUTHOR INDEX

- Abcor Inc., Walden Research Division 256
- Abt Associates Inc. 3
- Adam Opel AG 275
- Advanced Vehicle Systems Ltd. 553
- Aerospace Corp., Energy and Resources Division 587
- Aerospace Corp., Energy and Transportation Division, Transportation Group Directorate 8
- Aerospace Corp., Environment and Energy Conservation Division 301
- Aerospace Corp., Environment and Energy Conservation Division, Mobile Systems Group 9
- Aerospace Corp., Environment and Energy Conservation Division, Mobile Systems Group, Office of Energy Conservation 183
- Aerospace Corp., Environmental Programs Group 363
- Air Transport Association of America 351
- Air Transport Association of America, Economics and Finance Dept. 11
- Air-Conditioning and Refrigeration Institute 594
- Airsearch Manufacturing Co. 12, 13, 120, 166, 550
- Alaska, University of, Institute of Social, Economic and Governmental Research 406
- Alfa Romeo Research Dept. 130
- American Association for the Advancement of Science 251
- American Bus Association 20
- American Gas Association, Financial and Administrative Section, Library Services Committee 21
- American Gas Association, Policy and Economic Analysis Division 32
- American Nuclear Society Inc. 22
- American Public Transit Association 23
- American Road Builders Association, Educational Division, Planning and Design Division 103
- American Society of Planning Officials 162
- American Trucking Associations Inc., Dept. of Economics 24, 25, 26, 27
- American Trucking Associations Inc., Dept. of Research and Transport Economics 228
- American Trucking Associations Inc., Public Relations Dept. 27
- American Waterways Operators Inc. 28
- Andersen (Arthur) and Co. 29
- Argonne National Laboratory 35, 36, 63, 73, 126, 619
- Argonne National Laboratory, Chemical Engineering Division 127, 360, 471
- Argonne National Laboratory, Energy and Environmental Systems Division 67, 359, 752
- Arizona, University of, Dept. of Engineering, Energy Systems Engineering Program 212
- ASL Engineering Inc. 566
- Association of American Pipe Lines 39
- Association of American Railroads, Economics and Finance Dept. 40, 41, 42
- Association of American Railroads, Mechanical Division 147
- Association of American Railroads, Office of Information and Public Affairs 43
- Atomic Energy Commission, Assistant Administrator for Conservation 44
- Australia Commonwealth Bureau of Roads 295
- Automobile Club of Southern California 51
- Barton-Aschman Associates Inc. 87, 196
- Battelle Columbus Laboratories 185, 736
- Battelle Pacific Northwest Laboratories 382
- Bigelow and Associates 69
- Bobit Publishing Co., Research Dept. 75
- Booz, Allen & Hamilton Inc. 82
- Booz, Allen & Hamilton Inc., Design and Development Division 412
- Booz, Allen & Hamilton Inc., National Analysts 83
- Booz, Allen & Hamilton Inc., Transportation Consulting Division 84
- Booz, Allen Applied Research Inc. 85, 581
- Boston College, Laboratory of Psychosocial Studies 237
- Boston University, School of Management 508
- BRI Systems Inc. 90, 91, 92, 93, 94, 95
- Brookhaven National Laboratory 63, 568
- Brookhaven National Laboratory, Dept. of Applied Science 524
- Brookhaven National Laboratory, Dept. of Applied Science, Energy Policy Analysis Group 366
- Brookhaven National Laboratory, National Center for Analysis of Energy Systems 744
- Brookhaven National Laboratory, National Center for Analysis of Energy Systems, Economic Analysis Division 62
- Brookhaven National Laboratory, National Center for Analysis of Energy Systems, Energy Models Group 125
- Brookhaven National Laboratory, National Center for Analysis of Energy Systems, Policy Analysis Division 112, 113, 440, 609
- Brookhaven National Laboratory, National Center for Analysis of Energy Systems, Technology Assessment Group 179, 274
- Business Science Corp. 623
- California Dept. of Transportation 231
- California Institute of Technology 296
- California Institute of Technology, Jet Propulsion Laboratory 171
- California, University of 73, 406
- California, University of, Institute for Transportation Studies 514

CORPORATE AUTHOR INDEX

- California, University of, Institute of Transportation Studies 312, 313
- California, University of, Institute of Transportation Studies, California 99
- California, University of, School of Business Administration 286
- Cambridge Systematics Inc. 107, 124
- Cameron Engineers 592
- Capital District Transportation Authority 523
- Carnegie-Mellon University, Mechanical Engineering Dept. 487
- Champion Spark Plug Co. 748
- Charles River Associates Inc. 121, 122, 123, 124
- Charles Stark Draper Laboratory Inc. 176
- Chicago Regional Transportation Authority 490
- Chilton Co. 414
- Chrysler Corp. 34, 74, 561, 768
- Cianbro Corp. 129
- Civil Aeronautics Board, Bureau of Accounts and Statistics, Economic Evaluation Division 131, 132, 133
- Civil Aeronautics Board, Bureau of Accounts and Statistics, Statistical Data Division 134
- Civil Aeronautics Board, Bureau of Accounts and Statistics, Statistical Data Division, Financial and Traffic Data Section 135
- Civil Aeronautics Board, Bureau of Operating Rights, Standards Division 136, 137, 138
- Civil Aeronautics Board, Financial and Traffic Data Section 139
- Clemson University, Dept. of Civil Engineering, Continuing Engineering Education 103
- Colorado, University of, Graduate School of Business Administration, Business Research Division 253
- Control Data Corp. 153
- Copper Development Association Inc. 415
- Cornell University 522
- Cornell University, Dept. of Environmental Engineering 602, 603
- Crain Automotive Group Inc. 158
- Dartmouth College, Thayer School of Engineering 442
- Data Resources Inc. 165
- Data Resources Inc., Energy Group 608
- De Leuw, Cather and Co. 554
- Delaware Valley Regional Planning Commission 437
- Deutsche Automobilgesellschaft Forschungslaboratorium 48
- Development Sciences Inc. 235
- Donovan, Hamster and Rattien Inc. 184, 185
- Dow Chemical Co. 374
- Duke University, Duke Environmental Center 164
- Duke University, School of Engineering, Dept. of Civil Engineering 164
- Eagle-Picher Industries Inc. 111
- Edwards and Kelcey Inc. 355
- Electric Vehicle Council 108, 109
- Elroy Engineering Pty. Ltd. 367
- Energy and Environmental Analysis Inc. 191, 403, 404
- Energy Research and Development Administration 192, 281
- Energy Research and Development Administration, Assistant Administrator for Institutional Relations, Energy Extension Service 193
- Energy Research and Development Administration, Bartlesville Energy Research Center 59, 226, 392, 393, 571
- Energy Research and Development Administration, Division of Buildings and Industry 128
- Energy Research and Development Administration, Division of Conservation Research and Technology 360
- Energy Research and Development Administration, Division of Transportation Energy Conservation 194
- Energy Research and Development Administration, Office of Assistant Administrator for Conservation 195
- Energy Research and Development Administration, Office of Assistant Administrator for Environment and Safety 195
- Energy Research Corp. 146
- Engelhard Industries, a Division of Engelhard Minerals & Chemicals Corp. 290
- ENO Foundation for Transportation Inc. 267
- Environmental Impact Center Inc. 509, 510, 511
- ESB Inc. 201
- Escher Technology Associates 233, 234
- Ethyl Corp. 203
- Executive Office of the President 114, 206
- Executive Office of the President, Office of Management and Budget 207, 555
- Exxon Enterprises Inc. 759
- Exxon Research and Engineering Co., Government Research Laboratories 208
- Faucett (Jack) Associates Inc. 210, 211, 334
- Federal Energy Administration 116, 405, 717
- Federal Energy Administration, National Impact Division 37
- Federal Energy Administration, Office of Energy Conservation and Environment, Marketing Office 213
- Federal Energy Administration, Office of Energy Information and Analysis, Consumption Studies Division 473
- Federal Energy Administration, Office of Energy Information and Analysis, Office of Data and Analysis 214, 215, 216, 217, 218, 219, 220

CORPORATE AUTHOR INDEX

- Federal Energy Administration, Office of Energy Information and Analysis, Price Analysis Division 105
- Federal Energy Administration, Office of Macroeconomic Impact Analysis 37
- Federal Energy Administration, Office of Regulatory Programs 221
- Federal Power Commission, Bureau of Natural Gas 222
- Fleet Owner 225
- Florida Dept. of Administration, State Energy Office 227
- Florida State University 50
- Florida, University of, Dept. of Mechanical Engineering 535
- Ford Motor Co. 154, 197, 402
- Ford Motor Co., Engineering and Research Staff 409, 410
- Ford Motor Co., Ford Research Staff 731
- Fuel Injection Development Corp. 373
- Gallop Organization Inc 242
- General Accounting Office, Office of the Comptroller General 246, 247
- General Electric Co. 272
- General Electric Co., Corporate Research and Development 248
- General Motors Corp. 175
- General Motors Corp., Buick Motor Division 284
- General Motors Corp., Chevrolet Engineering 534
- General Motors Corp., Design Staff 352
- General Motors Corp., Engineering Staff 413
- General Motors Corp., Environmental Activities Staff 289
- General Motors Corp., Harrison Radiator Division 161
- General Motors Corp., Research Laboratories 10, 96, 182, 204, 205, 475, 534
- General Motors Corp., Research Laboratories, Fluid Dynamics Research Dept. 396
- General Motors Corp., Research Laboratories, Library, System on Automotive Safety Information 397, 421
- General Motors Corp., Research Laboratories, Physics Dept., Environmental Activities Staff 583
- General Motors Corp., Research Laboratories, Transportation and Urban Analysis Dept. 102, 258, 309, 310, 514
- General Motors Proving Ground 335
- General Research Corp 281
- General Research Corp. 88, 89, 152, 278, 279, 280, 282
- General Technical Services Inc. 319, 320
- George Washington University, Program of Policy Studies in Science and Technology 250
- Georgia Institute of Technology 385, 557
- Georgia Institute of Technology, School of Civil Engineering 103
- Georgia, University of, Institute of Community and Area Development 482
- Georgia, University of, Institute of Ecology 482
- Gordian Associates Inc. 261
- Grey Advertising Inc. 268, 269
- Grier Partnership 270
- Gulf Research and Development Co. 273, 494
- Hague International 73
- Hammer, Siler, George Associates 283
- Hebrew University 271, 521, 522
- Hendrickson Corp. 347
- Hitachi Ltd., Hitachi Laboratory 338
- Hitachi Ltd., Sawa Works 338
- Hittman Associates Inc. 302
- ICF Inc. 216, 217, 218, 219
- Illinois, University of, Center for Advanced Computation 489, 531
- Illinois, University of, Center for Advanced Computation, Energy Research Group 100
- Illinois, University of, College of Engineering 746
- Illinois, University of, Dept. of Business Administration 310
- Institute for Defense Analyses, Science and Technology Division 530
- Institute for Energy Analysis 15, 525
- Institute of Gas Technology 486
- Interdisciplinary Group for Ecology, Development, and Energy (EDEW) 212
- International Association for Hydrogen Energy 740
- International Harvester Co., Solar Division 545
- International Research and Technology Corp. 46, 180, 181
- International Road Federation 306, 322, 624
- Interplan Corp. 63, 344
- Interstate Commerce Commission 323
- Interstate Commerce Commission, Bureau of Accounts 324, 325, 326, 327, 328, 329, 330
- Iowa State University, Civil Engineering and Engineering Research Institute 533
- Iowa State University, Dept. of Science and Technology 728
- Irving-Cloud Publishing Co. 332
- Jet Propulsion Laboratory 291
- John Deere Product Engineering Center 520
- Johns Hopkins University, Center for Metropolitan Planning and Research 52
- Kalish, Wittlinger and Associates Inc. 336
- Kanner (Leo) Associates 47, 277

CORPORATE AUTHOR INDEX

188

KB United Stirling (Sweden) AB & Co. 547
 Kearney (A.T.) Inc. 339, 340
 Kent State University 157
 Kentucky Dept. of Transportation, Bureau of Highways 495
 Lawrence Berkeley Laboratory 2, 63, 77, 78, 79
 Lawrence Livermore Laboratory 30, 71, 77, 119, 155, 166, 167, 168, 532
 Library of Congress, Congressional Research Service 376
 Library of Congress, Congressional Research Service, Environment and Natural Resources Policy Division 1
 Lindsey-Kaufman Co 379
 Little (Arthur D.) Inc. 729
 LMC Corp. 381
 Lockheed Missiles and Space Co. Inc., Lockheed Palo Alto Research Laboratory 241
 Logistics Management Institute 220, 570
 Los Alamos Scientific Laboratory 345
 Lucas (Joseph) Ltd. 285
 Marx, Marketing Committee 391
 Marquette University, Urban Transportation Program 61
 Marketing Handbooks Inc. 476
 Maryland, University of 604
 Maryland, University of, College of Business and Management 157
 Massachusetts Institute of Technology 73
 Massachusetts Institute of Technology, Center for Transportation Studies 536, 537, 538, 539, 770
 Massachusetts Institute of Technology, Dept. of Civil Engineering 371, 372
 Massachusetts Institute of Technology, Dept. of Civil Engineering, Transportation Systems Division 66
 Massachusetts Institute of Technology, Dept. of Urban Studies and Planning 81, 505, 506
 Massachusetts Institute of Technology, Flight Transportation Laboratory 481
 Massachusetts Institute of Technology, Workshop on Alternative Energy Strategies (WAES) 54, 394, 765
 Mathematica Policy Research Inc. 386, 347
 McDonnell Douglas Corp., Douglas Aircraft Co. 356, 737
 McGraw-Hill Publications Co., Research Division 400
 McKinsey and Co. Inc. 231
 Mechanical Technology Inc. 388, 389, 551
 Mechanical Technology Inc., PSD Division 407
 Melbourne, University of 295
 Mercedes-Benz of North America Inc., Advertising and Sales Promotion Dept. 411
 Metrics Inc. 593
 Miami University 565
 Miami University, Clean Energy Research Institute 740
 Miami, University of, Ryder Program in Transportation 233
 Miami, University of, School of Engineering and Environmental Design 740
 Michigan State University, Dept. of Park and Recreation Resources 422
 Michigan Technological University 80
 Michigan, University of, Highway Safety Research Institute 110, 769
 Midwest Research Institute 252
 Missouri, University of, Dept. of Chemical Engineering 240
 Nitro Corp. 72, 98, 236
 Mobil Oil A.G. 300
 Mobil R&D Corp. 257
 Mobil Research and Development Corp. 53, 300, 741
 Motor Vehicle Manufacturers Association of the U. S. Inc. 430
 Motor Vehicle Manufacturers Association of the U. S. Inc., Statistics Dept. 431, 432
 Motorcycle Industry Council Inc., Research and Statistics Dept. 433
 Mueller Associates Inc. 349, 435, 436
 Multisystems Inc., Transportation Systems Division 584
 N.V. Philips' Gloeilampenfabrieken 738
 National Academy of Sciences, National Research Council, Assembly of Engineering, Energy Engineering Board, Committee on Advanced Energy Storage Systems 443
 National Academy of Sciences, National Research Council, Assembly of Life Sciences, Committee on Toxicology 444
 National Academy of Sciences, National Research Council, Highway Research Board 445, 446, 447, 448
 National Academy of Sciences, National Research Council, Highway Research Board, Advisory Committee on Movement of Goods in Urban Areas 449
 National Academy of Sciences, National Research Council, Transportation Research Board 142, 143, 144, 145, 362, 427, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 569, 578, 579, 761, 777
 National Academy of Sciences, National Research Council, Transportation Research Board, Commission on Sociotechnical Systems 141, 465
 National Academy of Sciences, National Research Council, Transportation Research Board, National Cooperative Highway Research Program 348
 National Academy of Sciences, National Research Council, Transportation Research Board, TRISNET Secretariat 331
 National Aeronautics and Space Administration, Ames Research Center 764
 National Aeronautics and Space Administration, Jet Propulsion Laboratory 369

CORPORATE AUTHOR INDEX

- National Aeronautics and Space Administration, Langley Research Center 350, 370
- National Aeronautics and Space Administration, Lewis Research Center 31, 115, 188, 466, 467, 544, 562, 563, 564, 588, 589, 590, 610, 615
- National Aeronautics and Space Administration, Lyndon B. Johnson Space Center 423
- National Association State Directors of Pupil Transportation Services 468
- National Governors' Association, Center for Policy Research 365
- National Petroleum Council 469, 474
- National Petroleum News 470
- National Technical Information Service 5, 6, 7, 368
- New Hampshire, University of, College of Engineering and Physical Sciences 485
- New Jersey Institute of Technology 355
- New York State Dept. of Transportation, Planning and Research Bureau 198
- New York State Dep. of Transportation, Planning and Research Bureau, Planning Research Unit 148, 200, 288
- New York State Dept. of Transportation, Planning Division 260, 287, 341, 472
- New York State Dept. of Transportation, Planning Division, Planning Research Unit 199
- North Atlantic Treaty Organization, Committee on the Challenges of Modern Society 478
- North Carolina, University of, Highway Safety Research Center 760
- Northwestern University, Transportation Center 354
- Northwestern University, Transportation Center Library 479
- Oak Ridge National Laboratory, Computer Sciences Division 483
- Oak Ridge National Laboratory, Energy Division, Economic Analysis Section 528
- Oak Ridge National Laboratory, Energy Division, Regional and Urban Studies Section 265, 266, 483, 527, 576, 577
- Oak Ridge National Laboratory, Health Physics Division 97
- Oak Ridge National Laboratory, Information Division, Information Center Complex, Energy Information Center 314
- Oak Ridge Y-12 Plant 315, 316
- Ogle (David) Ltd. 751
- Ohio State University, Dept. of Civil Engineering 416
- Ontario Ministry of Transportation and Communications, Research and Development Division 70
- Opinion Research Corp. 484
- Peat, Marwick, Mitchell and Co. 438
- Penney (J.C.) Co. Inc., Real Estate Dept. 485
- Pennsylvania State University, Institute for Research on Land and Water Resources 243
- Pennsylvania State University, Pennsylvania Transportation Institute 601
- Pennsylvania, University of, Civil and Urban Engineering Dept. 428
- Pennsylvania, University of, Dept. of Civil and Urban Engineering 774
- Pennsylvania, University of, Dept. of Economics, Economics Research Branch 4
- Pennsylvania, University of, Dept. of Engineering 70, 490
- Perkins Engines Co. 209
- Petro-Electric Motors Ltd. 771
- Petroleum Publishing Co. 493
- Philips Research Laboratories 38
- Pipeline and Underground Utilities Construction 496
- Pittsburgh, University of, Environmental Systems Engineering 317, 318
- Popular Science 497
- Pratt (R.H.) Associates Inc. 502
- Pratt & Whitney Aircraft Group, Government Products Division 17
- Presidential Task Force on Reform of Federal Energy Administration Regulations 503
- Princeton University, Center for Environmental Studies 223
- Princeton University, Dept. of Civil Engineering 383
- Princeton University, Transportation Program 762
- Public Technology Inc. 504, 732, 733, 734
- Purdue University, Institute for Interdisciplinary Engineering Studies 507
- Purdue University, School of Engineering 772
- Purvis Systems Inc., Washington Operations 606
- Rand Corp. 398, 429, 605
- Rath & Strong Inc. 378
- Recreation Vehicle Industry Association 515, 516
- Recreation Vehicle Industry Association, Marketing and Public Relations Departments 517
- Regional Plan Association 508, 519, 776
- Research Institute for Rotating Electrical Machines 567
- Research Triangle Institute 760
- Resources for the Future Inc. 303
- RHC Research Corp. 541, 542
- Rockwell International, Space Division 543
- Rohr Industries Inc., Advanced Transportation Systems 549
- Sandia Laboratories 163, 173, 498
- Santa Clara University, Dept. of Mechanical Engineering 488
- Schimpeler-Corradino Associates 557

CORPORATE AUTHOR INDEX

Science Application Inc., Combustion and Propulsion Technology Division 208

Scitran 178, 255, 512, 749, 754

Shell International Petroleum Co. Ltd. 763

Simpson and Curtin 581

Smith (Wilbur) and Associates 304

Society of Automotive Engineers Inc. 585, 586

SONIO Petroleum Co. 592

South Carolina, University of, Dept. of Government and International Studies 552

South Carolina, University of, Traffic and Transportation Center 552

Southeastern Wisconsin Regional Planning Commission 772

Southern California Association of Governments 297

Southern California Gas Co. 259

Southwest Research Institute 592

Southwest Research Institute, Automotive Research Division, Dept. of Emissions Research 596

SRI International (formerly Stanford Research Institute) 597

SRI International, Center for Resource and Environmental Systems, Chemicals and Resources Group 254

Standard Oil Co. of Ohio 592

Stanford Research Institute 177, 293, 294, 424, 425, 426, 491, 501, 598, 599, 618

Stanford University, Dept. of Aeronautics and Astronautics 500

Stanford University, Dept. of Engineering-Economic Systems 607

Stanford University, Dept. of Operations Research, Systems Optimization Laboratory 45

State University of New York, Center for Social Analysis 617

State University of New York, Institute for Energy Research 112, 113

Systems Analysis and Research Corp. 174

Systems Design Concepts Inc. 609

Tausig Associates 612

Technology Study Panel 614

Teledyne Continental Motors, General Products Division 298, 299

Tennessee, University of, Transportation Center 106, 170, 439

Tetra Tech Inc. 556

Texas Transportation Institute 101

Texas, University of 401

The Conservation Foundation 289

Thermo Electron Corp. 616

Toronto, University of, Dept. of Civil Engineering 529

Toyota Motor Co. Ltd. 321

Transport and Road Research Laboratory, Dept. of the Environment 33

Travel Reference Center 253

Travel Research Association 253

Tri-State Regional Planning Commission 480

Trinc Transportation Consultants 620

Truck Trailer Manufacturers Association 621

TBW Inc., Defense and Space Systems Group 224

TBW Inc., Energy Systems Planning Division 49, 622

Tufts University, Program in Urban, Social, and Environmental Policy 613

U.S. Congress 625, 626, 627, 628, 629

U.S. Congress, Congressional Budget Office, Natural Resources and Commerce Division 358, 434, 758

U.S. Congress, Joint Committee on Taxation 630

U.S. Congress, Office of Technology Assessment 631, 632

U.S. Dept. of Agriculture, Economic Research Service, National Economic Analysis Division 76

U.S. Dept. of Commerce 86

U.S. Dept. of Commerce, Bureau of Economic Analysis 238, 289, 526, 633, 747

U.S. Dept. of Commerce, Bureau of the Census 634, 635, 636

U.S. Dept. of Commerce, Bureau of the Census, Business Division 637

U.S. Dept. of Commerce, Bureau of the Census, Foreign Trade Division 638

U.S. Dept. of Commerce, Bureau of the Census, Industry Division 639

U.S. Dept. of Commerce, Bureau of the Census, Population Division 640

U.S. Dept. of Commerce, Domestic and International Business Administration, Office of Economic Research 357

U.S. Dept. of Commerce, Industry and Trade Administration 641

U.S. Dept. of Commerce, Maritime Administration, Office of Subsidy Administration 642

U.S. Dept. of Commerce, Maritime Administration, Office of Trade Studies and Statistics 643

U.S. Dept. of Commerce, National Bureau of Standards 375

U.S. Dept. of Commerce, National Bureau of Standards, Institute of Basic Standards 540

U.S. Dept. of Defense, Army Corps of Engineers 644

U.S. Dept. of Defense, Army Materiel Development and Readiness Command, Foreign Science and Technology Center 104

U.S. Dept. of Defense, Civil Preparedness Agency 645

U.S. Dept. of Energy 119, 202, 403, 404, 646

U.S. Dept. of Energy, Assistant Secretary for Conservation and Solar Applications 647

CORPORATE AUTHOR INDEX

191

- U.S. Dept. of Energy, Assistant Secretary for Conservation and Solar Applications, Office of Business Assistance Programs 648
- U.S. Dept. of Energy, Assistant Secretary for Conservation and Solar Applications, Transportation Planning Office 263
- U.S. Dept. of Energy, Assistant Secretary for Conservation and Solar Applications, Transportation Programs Office 649
- U.S. Dept. of Energy, Assistant Secretary for Energy Technology 650
- U.S. Dept. of Energy, Assistant Secretary for Energy Technology, Division of Energy Storage Systems 753
- U.S. Dept. of Energy, Assistant Secretary for Environment 647, 651
- U.S. Dept. of Energy, Bartlesville Energy Research Center 57, 58, 572, 573, 574
- U.S. Dept. of Energy, Division of Transportation Energy Conservation 190, 652, 653, 654, 655
- U.S. Dept. of Energy, Division of Transportation Energy Conservation, Office of Highway Vehicle Systems 656
- U.S. Dept. of Energy, Economic Regulatory Administration 657, 658
- U.S. Dept. of Energy, Economic Regulatory Administration, Office of Regulations and Emergency Planning 659, 660
- U.S. Dept. of Energy, Economic Regulatory Administration, Office of Regulations and Emergency Planning, Major Emergency Programs Division 661
- U.S. Dept. of Energy, Energy Information Administration 591, 662, 663, 664
- U.S. Dept. of Energy, Energy Information Administration, Division of Consumption Data Studies 239
- U.S. Dept. of Energy, Energy Information Administration, Office of Energy Data and Interpretation 665
- U.S. Dept. of Energy, Nevada Operations Office 666
- U.S. Dept. of Energy, Office of Planning Coordination 651
- U.S. Dept. of Energy, Office of Public Affairs 667
- U.S. Dept. of Energy, Office of Technology Impacts 651
- U.S. Dept. of Energy, Office of the Under Secretary, Task Force on Alcohol Fuels 668, 669
- U.S. Dept. of Interior, Bureau of Mines 670, 671, 672
- U.S. Dept. of Interior, Bureau of Mines, Division of Fuels Data 673
- U.S. Dept. of Interior, Bureau of Mines, Division of Interfuels Studies 167
- U.S. Dept. of Interior, Geological Survey 14
- U.S. Dept. of Labor, Bureau of Labor Statistics 264
- U.S. Dept. of State 406
- U.S. Dept. of Transportation 386, 557, 674, 675, 676, 677, 678
- U.S. Dept. of Transportation, Assistant Secretary of Transportation Planning Analysis, Evaluation and Planning Analysis Division, Urban Analysis Program 757
- U.S. Dept. of Transportation, Coast Guard 679, 680
- U.S. Dept. of Transportation, Coast Guard, Marine Safety Council 681
- U.S. Dept. of Transportation, Federal Aviation Administration 174, 682
- U.S. Dept. of Transportation, Federal Aviation Administration, Office of Aviation Policy 683, 684, 685
- U.S. Dept. of Transportation, Federal Aviation Administration, Office of Aviation Policy, Aviation Forecast Branch 686
- U.S. Dept. of Transportation, Federal Aviation Administration, Office of Management Systems 139
- U.S. Dept. of Transportation, Federal Aviation Administration, Office of Management Systems, Information and Statistics Division 687
- U.S. Dept. of Transportation, Federal Highway Administration 337, 580, 582, 688, 689, 690, 691, 692
- U.S. Dept. of Transportation, Federal Highway Administration, Highway Statistics Division, Office of Highway Planning 575
- U.S. Dept. of Transportation, Federal Highway Administration, National Highway Institute 103
- U.S. Dept. of Transportation, Federal Highway Administration, Office of Highway Planning, Planning Services Branch 343
- U.S. Dept. of Transportation, Federal Highway Administration, Offices of Research and Development, Environmental Design and Control Division 767
- U.S. Dept. of Transportation, Federal Railroad Administration 693
- U.S. Dept. of Transportation, Federal Railroad Administration, Government Industry Task Force on Railroad Electrification 694
- U.S. Dept. of Transportation, National Highway Traffic Safety Administration 55, 695, 696
- U.S. Dept. of Transportation, National Highway Traffic Safety Administration, Office of Passenger Vehicle Research, Technology Assessment Division 697
- U.S. Dept. of Transportation, National Highway Traffic Safety Administration, Technical Reference Division 229, 230, 698
- U.S. Dept. of Transportation, Office of Systems Analysis and Information, Strategic Planning Division 739
- U.S. Dept. of Transportation, Office of the Secretary 151, 699, 700
- U.S. Dept. of Transportation, Office of the Secretary, Office of Assistant Secretary for Policy, Plans and International Affairs, Office of Transportation Planning Analysis, Urban Analysis Program 756
- U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Policy, Plans, and International Affairs 97
- U.S. Dept. of Transportation, Office of Transportation Planning Analysis 701

CORPORATE AUTHOR INDEX

- U.S. Dept. of Transportation, Transportation Systems Center 16, 97, 150, 189, 244, 245, 262, 307, 308, 361, 384, 408, 499, 518, 546, 595, 600, 611
- U.S. Dept. of Transportation, Transportation Systems Center, Technology Sharing Program Office 702, 703, 704, 705, 709
- U.S. Dept. of Transportation, Transportation Systems Center, Transportation Information Division 706
- U.S. Dept. of Transportation, Transportation Systems Center, Transportation Information Division 707
- U.S. Dept. of Transportation, Urban Mass Transportation Administration 232, 708
- U.S. Dept. of Transportation, Urban Mass Transportation Administration, Office of Technology Development and Deployment, Office of AGT Applications 709
- U.S. Dept. of Transportation, Urban Mass Transportation Administration, Policy and Program Development, Office of Program Evaluation 710
- U.S. Environmental Protection Agency 263, 311, 441, 676, 677, 678
- U.S. Environmental Protection Agency, Emission Control Technology Division, Standards Development and Support Branch 711, 712
- U.S. Environmental Protection Agency, Office of Transportation and Land Use Policy 713
- U.S. House of Representatives, Committee on Government Operations 714
- U.S. International Trade Commission 715
- U.S. Postal Service 159, 477
- U.S. Senate, Committee on Energy and Natural Resources 716, 717
- U.S. Senate, Committee on Energy and Natural Resources, Subcommittee on Energy Conservation and Regulation 718, 719, 720
- U.S. Senate, Committee on Governmental Affairs 721, 722
- U.S. Travel Data Center 723, 724, 725, 726, 727
- Union College 418
- Union College, Graduate Studies and Continuing Education 730
- Union College, Mechanical Engineering Dept. 417, 419, 420
- Union Oil Co. of California, Research Dept. 342
- Uniroyal Tire Co. 380
- Urban Consortium for Technology Initiatives, Transportation Task Force 504, 732, 733, 734
- Urban Institute 399, 554
- Urban Transportation Systems Associates Inc. 735
- Virginia, University of, Dept. of Civil Engineering 172
- Volkswagenwerk AG 18, 19, 68, 305
- Voorhees (Alan H.) and Associates Inc. 64, 65, 377, 742, 743
- Vulcan Materials Co. 390
- Ward's Communications Inc 750
- Washington Center for Metropolitan Studies 160
- Washington, University of, Joint Center for Graduate Study 395
- Washington, University of, School of Law 387
- Washington, University of, Urban Transportation Program 140
- Wells Research Co. 153
- Wharton EPA Inc. 558, 559, 560
- Wisconsin, University of, Engineering Experiment Station 56
- Wyle Laboratories 149
- Yardney Electric Corp. 492
- Ziff-Davis Publishing Co. 775

SPONSOR INDEX

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TRANSPORTATION ENERGY CONSERVATION DATA BOOK: A SELECTED BIBLIO--ETC(U)
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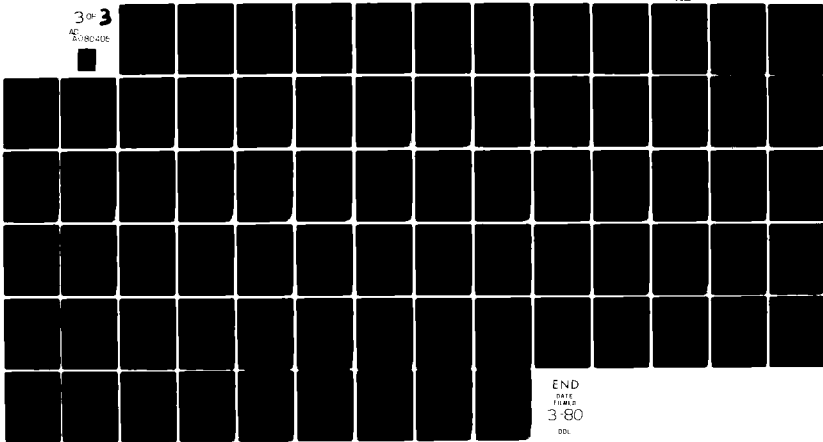
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SPONSOR INDEX

- Alfred P. Sloan Foundation 286
- American Association of State Highway and Transportation Officials 237, 464
- American Association of State Highway Officials 64, 742
- American Enterprise Institute for Public Policy Research 406
- Argonne National Laboratory 201, 479
- Argonne National Laboratory, Energy and Environmental Systems Division 354
- Brookhaven National Laboratory, National Center for Analysis of Energy Systems, Economic Analysis Division 570
- Canadian Ministry of Transport 449
- Community Services Administration 160
- Copper Development Association Inc. 336
- Council on Environmental Quality 541, 542
- Electric Power Research Institute 45, 121, 597, 598
- Electric Vehicle Council 192, 281, 336, 567
- Energy Research and Development Administration 15, 30, 36, 45, 71, 75, 77, 142, 155, 166, 250, 276, 293, 294, 299, 313, 345, 354, 359, 366, 373, 382, 424, 425, 426, 443, 465, 491, 525, 527, 532, 568, 614, 618, 728, 740, 741, 752, 764
- Energy Research and Development Administration, Administrator for Planning, Analysis, and Evaluation 570
- Energy Research and Development Administration, Assistant Administrator for Conservation 127, 360
- Energy Research and Development Administration, Assistant Administrator for Planning Analysis and Evaluation 100
- Energy Research and Development Administration, Division of Biomedical and Environmental Research 609
- Energy Research and Development Administration, Division of Conservation Research and Technology 374, 543
- Energy Research and Development Administration, Division of Transportation Energy Conservation 9, 17, 31, 35, 78, 89, 99, 154, 163, 167, 168, 234, 278, 279, 290, 302, 314, 349, 418, 488, 524, 545, 550, 561, 563, 566, 577, 590, 610, 616, 619, 729, 730
- Energy Research and Development Administration, Office of Conservation Planning Policy 607
- Energy Research and Development Administration, Office of Conservation, Division of Energy Storage Systems, Advanced Physical Methods Branch 315, 316
- Energy Research and Development Administration, Office of Planning, Analysis and Evaluation 125
- Energy Research and Development Administration, Office of Planning, Analysis, and Evaluation 235
- Energy Research and Development Administration, San Francisco Operations Office 248, 381
- Executive Office of the President, Council on Environmental Quality 165
- Federal Energy Administration 3, 8, 123, 141, 142, 210, 345, 502, 531, 537, 541, 542, 605, 649
- Federal Energy Administration, Office of Conservation, Transportation Programs 124
- Federal Energy Administration, Office of Data Services 346, 347
- Federal Energy Administration, Office of Energy Conservation and Environment 107, 112, 113, 464
- Federal Energy Administration, Office of Energy Systems Data 211
- Federal Energy Administration, Office of Industrial Reporting Programs 261, 339
- Federal Energy Administration, Office of Policy and Program Evaluation, Office of Conservation Policy 107
- Federal Energy Administration, Office of Transportation Policy Research 539
- Florida Dept. of Transportation 535
- Ford Foundation 519, 776
- German Federal Ministry for Research and Technology (BMP) 68
- Institute of Transportation Engineers 143
- International Union of Producers and Distributors of Electrical Energy 281, 567
- Interstate Commerce Commission 72
- Lawrence Livermore Laboratory, Office of Environmental Policy 164, 165
- Maryland Dept. of Transportation 52
- McGraw-Hill Publications, Fleet Owner 400
- Miami, University of, School of Continuing Studies 740
- Mitchell, Hutchins Inc. 516
- Motorcycle Industry Council Inc. 242
- National Academy of Sciences, National Research Council, Highway Research Board 50, 64, 232, 580, 742
- National Academy of Sciences, National Research Council, Transportation Research Board, National Cooperative Highway Research Program 237
- National Academy of Sciences, Transportation Research Board 69, 70, 87, 140, 196, 243, 271, 283, 295, 304, 306, 311, 355, 387, 399, 490, 521, 522, 565, 602, 603
- National Aeronautics and Space Administration 178, 277, 423, 512, 551
- National Aeronautics and Space Administration, Ames Research Center 356, 737
- National Aeronautics and Space Administration, Langley Research Center 164, 481
- National Aeronautics and Space Administration, Lewis Research Center 88, 395, 412, 549
- National Cooperative Highway Research Program 439
- National Science Foundation 54, 394, 605, 765
- National Science Foundation, Division of Policy Research and Analysis 599
- National Science Foundation, RANW Program 177, 483
- National Science Foundation, Science and Technology Policy Office 617
- New Jersey Dept. of Transportation 437

SPONSOR INDEX

- New York State Power Authority 508
- Oak Ridge National Laboratory 75, 622
- Oak Ridge National Laboratory, Energy Division, Data Management and Analysis Group 180
- Oak Ridge National Laboratory, Energy Division, Regional and Urban Studies Section 379
- Ohio State University, Graduate School 416
- Rhode Island Dept. of Transportation, Planning Division 735
- Rockefeller Foundation 519, 776
- Society of Automotive Engineers 34, 38, 53, 73, 80, 96, 109, 205, 209, 259, 273, 285, 299, 300, 305, 352, 370, 386, 405, 441, 534, 547, 736, 751, 763, 768, 771
- Society of Automotive Engineers Inc., Milwaukee Section 520
- Society of Automotive Engineers, Milwaukee Section 203, 257, 413, 586
- Stanford University, Institute for Energy Studies 45
- Tennessee, University of 649
- Travel Research Association 724
- Tri-State Regional Planning Commission 519
- U.S. Atomic Energy Commission 471
- U.S. Bureau of Public Roads 64, 742
- U.S. Dept. of Transportation, Transportation Systems Center, Office of Systems Research and Analysis 320
- U.S. Dept. of Commerce 429
- U.S. Dept. of Commerce, Maritime Administration 556, 593
- U.S. Dept. of Defense, Army Corps of Engineers, Institute for Water Resources 636
- U.S. Dept. of Defense, Army Materials and Mechanics Research Center 402
- U.S. Dept. of Defense, Defense Advanced Research Projects Agency 530
- U.S. Dept. of Defense, Naval Facilities Engineering Command, Office of Naval Research 618
- U.S. Dept. of Defense, Office of the Director of Defense Research and Engineering 530
- U.S. Dept. of Energy 36, 63, 152, 179, 274, 282, 440, 528
- U.S. Dept. of Energy, Assistant Secretary for Conservation and Solar Applications, Transportation Programs Office 169, 268
- U.S. Dept. of Energy, Division of Conservation Research and Technology 224
- U.S. Dept. of Energy, Division of Environmental Technology 173
- U.S. Dept. of Energy, Division of Transportation Energy Conservation 12, 13, 79, 115, 188, 208, 233, 254, 266, 273, 298, 334, 342, 369, 379, 381, 388, 389, 395, 402, 407, 435, 436, 466, 467, 478, 487, 494, 498, 507, 504, 546, 551, 576, 588, 589, 592, 615, 666, 784
- U.S. Dept. of Energy, Division of Transportation Energy Conservation, Data Analysis Branch 161, 265
- U.S. Dept. of Energy, Division of Transportation Energy Conservation, Electric and Hybrid Vehicle Systems Program 412, 549
- U.S. Dept. of Energy, Division of Transportation Energy Conservation, Non-Highway Transport Systems 82
- U.S. Dept. of Energy, Division of Transportation Energy Conservation, Office of Highway Systems, Heat Engine Systems Branch 183
- U.S. Dept. of Energy, Energy Information Administration, Office of Energy Data 191
- U.S. Dept. of Energy, Office of Conservation and Solar Applications 269
- U.S. Dept. of Energy, Office of Intergovernmental Affairs 365
- U.S. Dept. of Energy, Office of Planning and Analysis 62
- U.S. Dept. of Energy, Office of Policy and Evaluation 49
- U.S. Dept. of Energy, Transportation Energy Conservation Division, Data Analysis Branch 67
- U.S. Dept. of Housing and Urban Development 480
- U.S. Dept. of Interior 469
- U.S. Dept. of Interior, Bureau of Mines 531
- U.S. Dept. of Transportation 46, 90, 91, 92, 93, 94, 119, 260, 287, 296, 341, 472, 649, 732, 733, 734
- U.S. Dept. of Transportation, Coast Guard, Office of Research and Development 149
- U.S. Dept. of Transportation, Federal Aviation Administration, Office of Aviation Policy 174, 384, 501
- U.S. Dept. of Transportation, Federal Aviation Administration, Office of Aviation Policy, Aviation Forecast Branch 186, 707
- U.S. Dept. of Transportation, Federal Highway Administration 142, 143, 237, 297, 437, 464, 480, 504, 554, 624, 735
- U.S. Dept. of Transportation, Federal Highway Administration, Office of Highway Planning 252
- U.S. Dept. of Transportation, Federal Highway Administration, Office of Highway Planning, Program Management Division 65
- U.S. Dept. of Transportation, Federal Railroad Administration, Office of Research and Development 2, 236, 307, 308
- U.S. Dept. of Transportation, National Highway Traffic Safety Administration 83, 110, 122, 760, 769
- U.S. Dept. of Transportation, Office of Systems Engineering, University Research Program 500
- U.S. Dept. of Transportation, Office of the Assistant Secretary for Policy and International Affairs 262
- U.S. Dept. of Transportation, Office of the Assistant Secretary for Systems Development and Technology 262
- U.S. Dept. of Transportation, Office of the Assistant Secretary for Systems Development and Technology, Office of Systems Engineering 361
- U.S. Dept. of Transportation, Office of the Secretary 16, 449, 558, 559, 560

SPONSOR INDEX

- U.S. Dept. of Transportation, Office of the Secretary, Air Transportation Policy Staff 612
- U.S. Dept. of Transportation, Office of the Secretary, Office of F & D Policy 703, 704, 705
- U.S. Dept. of Transportation, Office of the Secretary, Office of Systems Analysis and Information 636
- U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Policy, Plans and International Affairs, Office of Transportation Energy Policy 189
- U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Policy, Plans and International Affairs, Office of Transportation Systems Analysis and Information 611
- U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Policy, Plans, and International Affairs 153, 706
- U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Systems Development and Technology 97, 150, 176, 408, 414, 509, 540
- U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Systems Development and Technology, Office of Systems Engineering 301, 392, 393, 499, 510, 511
- U.S. Dept. of Transportation, Office of the Secretary, Office of the Assistant Secretary for Systems Development and Technology, Transportation Research Activity Information Service 331
- U.S. Dept. of Transportation, Office of the Secretary, Office of Transportation Economic Analysis 606
- U.S. Dept. of Transportation, Office of the Secretary, Office of University Research 56, 81, 170, 172, 601, 770
- U.S. Dept. of Transportation, Office of the Secretary, Voluntary Truck and Bus Fuel Economy Program 95
- U.S. Dept. of Transportation, Office of University Research 188, 200, 288, 417, 419, 420, 506, 533, 536, 613, 774
- U.S. Dept. of Transportation, Research and Development Policy Analysis Division 584
- U.S. Dept. of Transportation, Research and Special Programs Administration, Office of Policy, Plans, and Administration 285
- U.S. Dept. of Transportation, Technology Sharing Program Office 244
- U.S. Dept. of Transportation, Transportation Systems Center 51, 141, 150, 176, 301, 378, 414, 509, 510, 511, 538, 558, 559, 560
- U.S. Dept. of Transportation, Transportation Systems Center, Information Division 71
- U.S. Dept. of Transportation, Transportation Systems Center, Office of Systems Research and Analysis 319
- U.S. Dept. of Transportation, Transportation Systems Center, Power and Propulsion Branch 392, 393
- U.S. Dept. of Transportation, Urban Mass Transportation Administration 29, 61, 143, 145, 153, 340, 375, 437, 480, 485, 504, 519, 548, 552, 554, 581, 703, 743, 746, 776
- U.S. Dept. of Transportation, Urban Mass Transportation Administration, Bus Projects Division 84, 85
- U.S. Dept. of Transportation, Urban Mass Transportation Administration, Office of Policy and Program Development 344
- U.S. Dept. of Transportation, Urban Mass Transportation Administration, Office of Research and Development 98, 291
- U.S. Dept. of Transportation, Urban Mass Transportation Administration, Office of Technology Development and Deployment 518, 595
- U.S. Dept. of Transportation, Urban Mass Transportation Administration, Office of Transportation Planning, Office of Planning Assistance 600
- U.S. Environmental Protection Agency 165, 444
- U.S. Environmental Protection Agency, Motor Vehicle Emission Laboratory 488
- U.S. Environmental Protection Agency, Office of Air and Waste Management, Office of Mobile Source Air Pollution Control, Alternative Automotive Power Systems Division 363, 545
- U.S. Environmental Protection Agency, Office of Air and Water Programs, Office of Air Quality Planning and Standards 256
- U.S. Environmental Protection Agency, Office of Research and Monitoring, Environmental Studies Division 162
- U.S. House of Representatives, Committee on Interior and Insular Affairs 631
- U.S. House of Representatives, Committee on Interstate and Foreign Commerce, Subcommittee on Energy and Power 247
- U.S. House of Representatives, Committee on Public Works and Transportation 699
- U.S. House of Representatives, Committee on Science and Technology 631
- U.S. House of Representatives, Committee on Ways and Means 630
- U.S. Postal Service 119
- U.S. Senate, Committee on Commerce, Science, and Transportation 376
- U.S. Senate, Committee on Energy and Natural Resources 376
- U.S. Senate, Committee on Environment and Public Works, Subcommittee on Transportation 358
- U.S. Senate, Committee on Interior and Insular Affairs 1
- Upper Great Lakes Regional Commission 422

KEYWORD INDEX

KEYWORD INDEX

- ABSTRACTS** 5, 7, 71, 229, 230, 314, 368
ACCELERATION 150, 301, 386, 589, 696, 775
ACCELEROMETERS 301
ACCIDENTS 29, 110, 173, 189, 337, 430, 433, 541, 554, 627, 677, 679, 680, 706, 760, 769
ACCOUNTING 29, 212, 303
ADDITIVES 734
ADIABATIC PROCESSES 369
ADVERTISING 158, 268, 269, 470, 476
AERODYNAMICS 118, 171, 370, 396, 535, 544
AFRICA 431
AGE GROUPS 97, 198, 264, 265, 270, 280, 317, 318, 337, 472, 640, 690, 691, 760
AGRICULTURAL EQUIPMENT 750
AGRICULTURE 45, 62, 184, 191, 193, 211, 212, 520, 533, 648
AIR CONDITIONING 161, 212, 235, 364, 375, 473, 508, 648
AIR POLLUTION 7, 162, 279, 281, 340, 387, 452, 470, 471, 541, 651, 663, 713
AIR POLLUTION CONTROL EQUIPMENT 682
AIR QUALITY 159, 195, 344, 440, 605, 618, 660, 678, 689
AIR TRANSPORTATION 8, 11, 16, 131, 132, 133, 134, 136, 138, 139, 148, 151, 164, 174, 177, 186, 191, 200, 244, 245, 246, 253, 266, 292, 314, 351, 354, 356, 418, 430, 446, 452, 458, 464, 470, 476, 479, 504, 513, 525, 577, 587, 604, 612, 636, 658, 674, 675, 682, 683, 684, 685, 686, 687, 691, 707, 723, 724, 726, 730, 737, 764
AIRCRAFT 16, 131, 132, 133, 134, 136, 137, 139, 186, 339, 351, 356, 370, 479, 501, 628, 682, 683, 687, 707, 740, 764
AIRFOILS 370
AIRPORTS 134, 137, 138, 139, 164, 174, 246, 293, 351, 384, 452, 491, 480, 683, 684, 686, 687, 700, 701, 707
ALABAMA 527
ALASKA 376, 406
ALBUQUERQUE 502
ALCOHOL FUELS 68, 342, 435, 592, 669
ALCOHOLS 10, 96, 668
ALYANDRIA (VIETNAM) 613
ALGORITHMS 386
ALLOCATIONS 157, 198, 221, 256, 274, 289, 297, 503, 617, 622, 645, 657, 658, 659, 660, 661, 667
ALTERNATE FUELS 10, 21, 22, 52, 58, 68, 73, 78, 96, 99, 166, 177, 184, 190, 208, 215, 233, 234, 259, 276, 314, 342, 361, 363, 423, 435, 436, 486, 488, 493, 524, 530, 545, 556, 568, 592, 599, 647, 653, 654, 656, 663, 668, 669, 740, 741
ALUMINUM 672, 755
ALUMINUM HYDRIDES 524
AMMONIA 177
ANTRAK 20, 420
ANALYTICAL METHODS 100
ANNAPOLIS (MARYLAND) 613
ANNUAL CYCLE ENERGY SYSTEM 235
APPLIANCES 45, 212, 270, 364, 469, 473, 594, 719
APPROPRIATIONS 629
ARCTIC 406
ARKANSAS 527
ASHES 486
ASIA 431
ASPHALTS 129, 142, 261, 504, 734
ATLANTA 461, 624
ATOMIZATION 610
ATTITUDES 3, 50, 60, 83, 121, 122, 157, 213, 237, 258, 287, 304, 309, 310, 341, 377, 422, 439, 461, 473, 475, 480, 484, 514, 552, 565, 579, 594, 777
AUSTRALIA 367, 431
AUTOMATED GUIDEWAY TRANSIT 144, 293, 709
AUTOMATIC VEHICLE MONITORING 518
AUTOMOBILE DRIVERS 51, 109, 223, 265, 280, 282, 287, 301, 304, 341, 377, 470, 484, 666, 688, 748, 760, 769, 775
AUTOMOBILE OCCUPANCY 61, 143, 383, 494, 735, 772
AUTOMOBILE REGISTRATIONS 199, 769
AUTOMOBILE TRANSMISSIONS 12, 13, 74, 150, 249, 407, 412, 599, 676
AUTOMOBILES 3, 8, 9, 17, 21, 23, 32, 33, 34, 37, 44, 46, 51, 53, 55, 56, 60, 61, 63, 64, 67, 75, 83, 86, 97, 102, 110, 116, 117, 118, 121, 122, 123, 130, 141, 143, 148, 150, 152, 156, 158, 160, 163, 168, 171, 173, 176, 181, 183, 191, 192, 198, 199, 200, 212, 213, 226, 230, 235, 244, 245, 249, 253, 254, 259, 260, 262, 265, 266, 270, 273, 275, 284, 289, 290, 296, 297, 298, 299, 300, 302, 304, 311, 314, 317, 318, 321, 332, 333, 335, 336, 350, 354, 357, 358, 363, 371, 372, 375, 377, 378, 382, 383, 386, 397, 399, 403, 404, 405, 408, 410, 411, 413, 414, 417, 419, 421, 422, 432, 441, 446, 450, 459, 464, 469, 470, 473, 476, 478, 479, 494, 502, 508, 510, 511, 524, 540, 544, 545, 552, 558, 559, 560, 562, 575, 576, 577, 583, 585, 587, 592, 599, 605, 607, 608, 610, 624, 627, 630, 657, 666, 667, 676, 677, 678, 698, 702, 715, 718, 719, 723, 724, 726, 727, 728, 735, 740, 743, 744, 745, 746, 748, 750, 752, 769, 772, 775, 777
AUTOMOTIVE CONTROL SYSTEMS 163, 409, 759
AUTOMOTIVE EMISSION CONTROL 34, 59, 182, 259, 413, 534, 586
AUTOMOTIVE EMISSIONS 9, 10, 31, 46, 53, 55, 57, 58, 59, 73, 96, 130, 141, 150, 159, 190, 203, 204, 209, 223, 224, 226, 249, 254, 273, 290, 297, 298, 299, 300, 305, 335, 373, 392, 393, 409, 414, 444, 478, 498, 500, 534, 586, 616, 676, 678, 698, 748, 766, 768, 771
AUTOMOTIVE ENGINEERING 74, 224, 275, 284, 389, 413, 549, 586, 755
AUTOMOTIVE ENGINES 22, 44, 46, 52, 63, 68, 75, 99, 181, 182, 190, 203, 257, 350, 373, 409, 410, 551, 586, 656, 677, 744, 748, 775
AUTOMOTIVE FLEETS 75, 159, 170, 225, 259, 344, 477, 509, 518, 576, 577, 728, 744
AUTOMOTIVE FUELS 9, 49, 52, 96, 177, 203, 259, 322, 361, 363, 377, 478, 592, 666, 692, 695
AUTOMOTIVE INDUSTRY 46, 62, 99, 156, 332, 357, 378, 546, 607, 648, 697, 750, 755
AUTOMOTIVE TRANSMISSIONS 104, 158, 203, 697, 775
AVAILABILITY 61, 360, 377, 552, 556, 611
AVIATION 77, 174, 177, 186, 384, 648, 683, 684
AVIATION FUELS 101, 246, 470, 530, 574, 658, 682
BALANCE SHEETS 326, 620
BALTIMORE (MARYLAND) 502
BARGES 220, 456, 479, 531, 555, 684
BATTERIES 10, 19, 22, 36, 47, 63, 77, 79, 88, 104, 111, 155, 166, 167, 168, 178, 192, 195, 201, 202, 240, 248, 272, 278, 282, 353, 360, 367, 389, 397, 421, 443, 446, 467, 470, 471, 499, 550, 553, 562, 563, 564, 566, 590, 599, 731, 745, 749, 753, 759, 763, 771
BATTERY CHARGING 152, 282, 546
BATTERY SEPARATORS 146
BAV AREA RAPID TRANSIT SYSTEM 416, 418, 461, 463, 762
BEARINGS 381, 551
BEHAVIOR 33, 60, 83, 122, 157,

KEYWORD INDEX

- BEHAVIOR** 160, 193, 213, 237, 287, 292, 301, 309, 310, 341, 371, 372, 377, 445, 450, 453, 458, 459, 460, 484, 514, 521, 552, 562, 578, 596, 603, 697
BELGIUM 86
BENEFIT COST ANALYSIS 102, 250, 356, 518, 578, 602, 737, 752
BENEFIT RISK ANALYSIS 106
BEVERAGES 364, 718
BIBLIOGRAPHIES 1, 5, 7, 16, 21, 71, 123, 184, 193, 229, 230, 253, 263, 276, 314, 344, 368, 395, 397, 421, 426, 479, 585, 689, 698, 704, 752, 769
BICYCLES 337, 339, 344, 353, 454, 464, 690, 713
BIKEWAYS 344, 454
BIOMASS 651, 668
BOATS 149, 266, 339, 391, 679, 680
BOILERS 487
BOLTZMANN STATISTICS 319
BRAKES 775
BRAYTON CYCLE 10, 22, 181, 766
BRITTLENESS 402
BROAD-CH" FUELS 30
BRUSSELS 624
BUDGETS 207, 434, 674, 758
BUFFALO (NEW YORK) 148, 419
BUILDING CODES 365
BUILDINGS 172, 193, 212, 247, 289, 365, 594, 651, 719
BUMPERS 627
BUSES (VEHICLES) 5, 7, 8, 20, 23, 33, 84, 85, 90, 91, 92, 93, 94, 95, 98, 101, 122, 144, 148, 153, 158, 170, 183, 191, 192, 200, 225, 236, 244, 245, 266, 285, 292, 302, 304, 311, 314, 336, 344, 354, 355, 358, 367, 396, 397, 416, 417, 421, 430, 432, 437, 448, 460, 461, 462, 464, 468, 476, 502, 504, 518, 519, 535, 552, 554, 565, 567, 575, 581, 587, 624, 629, 690, 696, 701, 705, 724, 726, 770, 772, 776, 777
CALIFORNIA 76, 78, 231, 297, 461
CAMPERS 497, 516, 517
CANADA 42, 54, 357, 394, 406, 411, 624, 703, 750
CAPACITY 115, 131, 133, 144, 219, 221, 249, 261, 311, 348, 417, 448, 462, 481, 554, 591, 637, 673, 693, 744
CAPITAL 11, 125, 133, 176, 434, 694
CAPITAL COSTS 40, 128, 261, 344, 470, 531, 569, 612, 637, 701, 710, 756
CARBON DIOXIDE 59, 204, 209, 392, 393, 678
CARGO TRANSPORTATION 5, 24, 25, 26, 27, 28, 40, 43, 67, 72, 76, 82, 106, 123, 124, 134, 139, 163, 147, 212, 228, 244, 245, 266, 274, 286, 302, 307, 308, 314, 323, 324, 325, 326, 327, 329, 330, 334, 340, 343, 351, 354, 364, 368, 376, 384, 418, 424, 425, 426, 428, 449, 451, 456, 457, 464, 491, 501, 506, 513, 525, 531, 536, 537, 538, 539, 555, 556, 593, 601, 606, 612, 634, 635, 636, 642, 643, 649, 683, 720, 730, 732, 774
CARPPOOLING 107, 287, 309, 310, 341, 344, 358, 383, 418, 437, 484, 552, 770
CATALYSTS 31, 290, 610
CATALYTIC CONVERTERS 182, 534
CATHODES 241, 374
CEMENTS 129, 142
CENSUS 635, 691
CERAMIC ENGINES 350
CERAMICS 402
CHARACTERISTICS 85, 414, 419, 576
CHEMICAL COMPOSITION 572
CHEMICAL FEEDSTOCKS 239
CHEMICAL INDUSTRY 641
CHEMICAL PROPERTIES 208, 572, 574
CHICAGO 310, 445, 490, 502, 624, 746
CHILDREN 468, 690
CITIZENS GROUPS 69
CLASSIFICATIONS 116, 183, 249, 375, 403, 404, 405, 767
COAL 30, 45, 101, 151, 184, 185, 212, 214, 215, 219, 220, 235, 239, 240, 247, 274, 303, 345, 376, 394, 401, 440, 442, 474, 486, 527, 528, 531, 568, 570, 592, 597, 606, 631, 633, 638, 650, 651, 668, 670, 672, 716, 740, 765
COAL GASIFICATION 240, 486, 651
COAL INDUSTRY 261
COAL LIQUEFACTION 240, 599, 651
COAL MINES 219
COAL MINING 14
COASTAL REGIONS 82
COASTS 644
COGENERATION 719
COKE 261
COMBUSTION 31, 208, 224, 276, 651
COMBUSTION PROPERTIES 208
COMBUSTORS 290, 610
COMMERCE 28, 644
COMMERCIAL BUILDINGS 364
COMMERCIAL SECTOR 54, 113, 179, 184, 191, 211, 212, 214, 239, 247, 256, 303, 312, 345, 366, 469, 528, 543, 597, 598, 614, 628, 641, 650, 663, 740, 747
COMMERCIALIZATION 36, 63, 99, 119, 233, 312, 353, 507, 564, 650, 669
COMMODITIES 14, 26, 28, 43, 81, 324, 325, 334, 340, 456, 506, 536, 537, 538, 539, 601, 634, 635, 636, 649, 671, 732, 774
COMMUNICATION 5, 641, 680
COMMUNITIES 113
COMMUNITY DEVELOPMENT 519, 713
COMMUTERS 134, 268, 508, 519, 618, 685, 701, 710, 743, 776
COMMUTING 51, 97, 174, 242, 287, 292, 310, 367, 371, 372, 377, 383, 398, 450, 460, 475, 484, 579, 618, 683, 712, 733, 742, 746, 757
COMPARATIVE EVALUATIONS 9, 11, 13, 18, 19, 24, 31, 33, 46, 51, 53, 58, 68, 73, 78, 81, 86, 110, 119, 130, 159, 177, 190, 215, 226, 228, 250, 257, 265, 266, 291, 301, 302, 303, 305, 306, 321, 333, 336, 340, 350, 356, 378, 383, 404, 405, 414, 415, 416, 419, 428, 435, 437, 442, 460, 464, 471, 487, 488, 490, 492, 494, 499, 500, 524, 525, 531, 534, 547, 554, 563, 574, 582, 599, 612, 624, 647, 650, 703, 728, 737, 743, 745, 746, 763, 766, 768, 774
COMPETITION 20, 148, 601, 661, 663
COMPOSITE MATERIALS 370, 532
COMPRESSION 333
COMPRESSORS 496
COMPUTER PROGRAMS 171, 210, 215, 256, 350, 402, 481, 534, 595, 615, 689, 735, 759
COMPUTERIZED SIMULATION 56, 112, 120, 130, 140, 150, 164, 176, 209, 212, 299, 335, 410, 412, 418, 456, 488, 511, 535, 555, 562, 595, 742, 759
CONCRETES 261, 734
CONFERENCES 7, 103, 145, 163, 296, 418, 421, 450, 478, 569, 579, 656, 685, 730, 740
CONNECTICUT 65
CONSTRUCTION 45, 103, 114, 128, 129, 142, 145, 211, 212, 231, 250, 385, 390, 425, 427, 438, 448, 482, 496, 557, 593, 629, 633, 673, 681, 734, 750, 762, 763
CONSTRUCTION INDUSTRY 641, 648
CONSTRUCTION MATERIALS 672
CONSUMER PRICE INDEX 221
CONSUMERS 3, 32, 50, 83, 121, 122, 158, 170, 213, 254, 258, 284,

KEYWORD INDEX

- CONSUMERS 289, 323, 405, 439, 461, 503, 421, 536, 565, 594, 607, 640, 657, 664, 667, 697, 720, 747
 CONSUMPTION 141, 227, 399, 530, 715
 CONTAINERS 173, 621
 CONTINUOUSLY-VARIABLE TRANSMISSIONS 56
 CONTROL 115, 567, 745
 CONTROL EQUIPMENT 370, 500, 547
 CONVERSION 259, 275, 366, 741
 CONVERTOR 531
 COOLANTS 80
 COPROPATIONS 268
 CORROSION 755
 COST ANALYSIS 17, 168, 548, 614
 COST EFFECTIVENESS 179, 578, 602
 COST ESTIMATES 293, 389, 605
 COSTS 5, 7, 12, 13, 19, 27, 28, 33, 46, 47, 55, 63, 73, 76, 78, 99, 103, 119, 122, 125, 132, 133, 142, 153, 154, 158, 159, 160, 164, 167, 177, 201, 244, 245, 248, 251, 254, 263, 269, 274, 276, 281, 286, 304, 340, 356, 361, 364, 374, 378, 394, 399, 406, 416, 425, 426, 432, 433, 435, 449, 452, 460, 473, 473, 475, 480, 491, 499, 503, 506, 507, 510, 518, 519, 522, 523, 525, 531, 536, 537, 538, 539, 547, 550, 555, 558, 563, 566, 569, 570, 578, 582, 598, 605, 612, 618, 619, 622, 624, 658, 669, 696, 697, 719, 743, 746, 747, 762, 766, 774, 776, 777
 COUPLINGS 79
 CRIME 189
 CRYOGENICS 368
 CUPEPTINO (CALIFORNIA) 159
 CYLINDERS 57
 CZECHOSLOVAKIA 567
 DAILY VARIATIONS 448
 DATA ACQUISITION 2, 29, 404, 510, 538, 662
 DATA ACQUISITION SYSTEMS 2
 DATA BASES 71, 186, 191, 200, 215, 256, 331, 378, 414, 501
 DATA COLLECTION 697
 DATA COMPILATION 538
 DATA PROCESSING 2, 347
 DAYLIGHT SAVING TIME 189
 DECISION MAKING 623, 752
 DECISIONS 334, 371, 372, 514
 DECOMPOSITION 208
 DELAWARE 366, 440
 DELAYS 355, 448, 481, 539
 DELPHI METHOD 50
 DEMAND (ECONOMICS) 4, 7, 14, 49, 53, 66, 107, 116, 124, 127, 141, 148, 155, 165, 176, 180, 186, 198, 221, 251, 258, 288, 314, 341, 384, 399, 445, 446, 450, 451, 452, 458, 465, 505, 511, 523, 536, 537, 538, 555, 556, 558, 559, 560, 577, 579, 598, 649, 650, 671, 697, 747, 765, 774
 DEMOGRAPHIC SURVEYS 337
 DEMOGRAPHY 258, 310, 398, 429
 DEMONSTRATION 17, 233, 278, 616, 652, 655, 709, 733
 DEMONSTRATION PLANTS 486
 DENATURANTS 436
 DENMARK 54, 394
 DENVER 624
 DESIGN 12, 13, 17, 22, 38, 46, 68, 70, 74, 78, 79, 84, 85, 89, 90, 103, 104, 115, 118, 119, 126, 147, 158, 161, 166, 172, 182, 197, 201, 203, 212, 233, 248, 249, 261, 272, 275, 284, 298, 299, 305, 315, 316, 335, 338, 349, 350, 353, 355, 356, 367, 368, 370, 373, 380, 382, 388, 389, 395, 396, 402, 403, 407, 409, 412, 413, 448, 454, 467, 469, 487, 500, 512, 520, 524, 532, 535, 543, 549, 550, 551, 553, 561, 566, 585, 586, 616, 656, 681, 705, 736, 737, 738, 745, 751, 759, 775
 DETERMINANTS 265, 334
 DETROIT (MICHIGAN) 64
 DEVELOPING COUNTRIES 212, 765
 DEVELOPMENT 77, 159, 168, 170, 251, 278, 312, 313, 321, 353, 378, 443, 454, 530, 532, 550, 561, 567, 652
 DIAGRAMS 10, 12, 13, 17, 22, 34, 35, 38, 48, 56, 74, 84, 85, 119, 126, 147, 150, 154, 161, 167, 192, 201, 224, 233, 248, 251, 251, 261, 275, 305, 316, 333, 345, 363, 367, 369, 370, 373, 381, 395, 396, 402, 412, 420, 486, 487, 498, 524, 540, 543, 544, 547, 550, 561, 566, 586, 589, 610, 616, 619, 647, 656, 738, 745, 766, 771
 DIAL-A-RIDE 5, 344, 358, 461
 DIESEL ENGINES 10, 49, 68, 80, 99, 147, 158, 209, 233, 234, 254, 275, 298, 299, 305, 314, 333, 369, 423, 478, 520, 535, 547, 586, 616, 678, 697, 746, 766, 768
 DIESEL FUELS 30, 31, 49, 52, 53, 58, 123, 130, 254, 256, 266, 290, 300, 400, 411, 423, 572, 592, 596, 638, 657, 664, 720, 744
 DIRECTORIES 331, 411, 470, 621, 705, 733, 750
 DISTANCE 232, 271, 273, 282, 334, 371, 372, 419, 483, 538, 580, 601, 636, 690, 691
 DISTILLATES 49, 187, 256
 DISTILLATION 571, 573, 673
 DISTRIBUTION 65, 106, 177, 536, 634, 658, 720, 773
 DISTRICT OF COLUMBIA 366, 440
 DRAG 396, 535
 DRILLING 218
 DRIVE TRAIN SYSTEMS 48, 192, 590, 771
 DRIVING CYCLE 13, 19, 46, 51, 79, 102, 190, 192, 223, 273, 369, 375, 404, 467, 494, 498, 549, 588, 590, 647, 666, 676, 677, 731, 759
 DROPLETS 208
 DUAL MODE ELECTRIC TRANSPORTATION SYSTEM 78
 DUAL-NODE BUS SYSTEMS 144
 DYNAMOMETERS 273, 586, 711
 EARNINGS 11, 238, 244, 245, 264, 430, 526, 612, 633
 ECONOMETRIC ANALYSIS 32, 37
 ECONOMETRIC MODELS 123, 165, 214, 384, 501, 558, 559, 560, 604, 683
 ECONOMIC ANALYSIS 46, 67, 68, 124, 185, 191, 192, 251, 261, 271, 276, 286, 291, 293, 351, 406, 430, 471, 512, 521, 536, 569, 578, 602, 607, 657, 661, 663, 668, 724, 737
 ECONOMIC CONDITIONS 11, 398
 ECONOMIC DEVELOPMENT 6, 15
 ECONOMIC IMPACT 6, 106, 156, 165, 180, 181, 221, 289, 346, 429, 459, 513, 613, 658, 661, 663, 681, 716, 717, 727
 ECONOMIC MODELS 216, 697
 ECONOMIC POLICY 206, 207
 ECONOMICS 26, 33, 81, 177, 193, 206, 212, 215, 218, 253, 285, 286, 302, 314, 339, 424, 425, 452, 459, 463, 491, 499, 531, 542, 543, 550, 598, 619, 630, 672, 740, 741, 745, 758
 EDUCATION 289, 429, 666, 713
 EFFICIENCY 10, 18, 30, 31, 57, 59, 86, 88, 103, 106, 109, 124, 130, 141, 192, 240, 255, 260, 261, 302, 314, 338, 339, 356, 364, 370, 383, 388, 389, 417, 419, 420, 424, 425, 426, 464, 488, 491, 499, 502, 544, 549, 561, 566, 593, 607, 608, 612, 682, 697, 700, 718, 730, 745, 764, 766, 772
 ELASTICITY (ECONOMICS) 4, 86, 117, 123, 148, 165, 399, 505, 594, 604, 605, 607
 ELDERLY 702, 704
 ELECTRIC DISCHARGES 115
 ELECTRIC HIGHWAY SYSTEMS 79

KEYWORD INDEX

- ELECTRIC MOTORS** 389, 718
- ELECTRIC POWER** 22, 189, 212, 214, 220, 235, 235, 239, 303, 366, 546, 606, 614, 633, 651, 663, 664, 694, 719
- ELECTRIC POWER DEMAND** 14, 37, 45, 52, 108, 109, 121, 152, 192, 195, 211, 285, 473, 508, 528, 569, 645, 718
- ELECTRIC POWER GENERATION** 152, 184, 240, 345, 364, 533, 597, 650
- ELECTRIC POWER METERS** 52, 270
- ELECTRIC RAIL SYSTEMS** 192, 293, 417, 489, 569, 694
- ELECTRIC UTILITIES** 35, 37, 109, 127, 191, 215, 219, 220, 239, 360, 440, 469, 528, 543
- ELECTRIC VEHICLE RANGE** 19, 166, 192, 255, 282, 338, 466, 507, 549, 563, 590, 655, 731
- ELECTRIC VEHICLES** 10, 18, 19, 22, 35, 36, 44, 47, 48, 52, 63, 67, 73, 75, 78, 79, 88, 89, 104, 108, 109, 111, 115, 119, 126, 127, 141, 146, 152, 155, 158, 159, 166, 167, 168, 178, 188, 192, 194, 195, 201, 202, 212, 223, 235, 241, 248, 254, 255, 272, 272, 277, 278, 279, 281, 285, 291, 314, 321, 336, 338, 349, 352, 353, 360, 363, 367, 381, 388, 389, 397, 407, 412, 415, 421, 443, 466, 467, 471, 477, 478, 492, 499, 507, 508, 512, 535, 543, 546, 549, 550, 553, 562, 563, 564, 566, 567, 588, 589, 590, 599, 646, 647, 652, 655, 694, 696, 705, 729, 730, 731, 736, 745, 749, 751, 754, 759, 763, 766, 768, 771
- ELECTRICAL EQUIPMENT** 641
- ELECTROCHEMICAL CELLS** 753
- ELECTRODES** 35, 146, 241, 374
- ELECTROLYSIS** 740
- ELECTROLYTES** 146, 241, 374
- ELEVATED GUIDEWAYS** 70
- EMERGENCY ENERGY PLANNING** 659
- EMISSIONS** 31, 56, 158, 276, 290, 430, 435, 469, 488, 554, 596, 711, 712
- EMPLOYEES** 43
- EMPLOYMENT** 40, 46, 46, 97, 102, 140, 153, 199, 206, 251, 264, 265, 332, 371, 372, 398, 430, 440, 508, 526, 633, 649, 661, 710, 727, 742, 773
- EMPTY BACKHAUL** 233
- ENERGY ANALYSIS** 62
- ENERGY BALANCE** 54, 598, 765
- ENERGY CONSERVATION** 8, 15, 22, 30, 36, 62, 86, 94, 101, 103, 107, 108, 113, 124, 141, 142, 151, 156, 159, 160, 168, 179, 180,
- ENERGY CONSERVATION** 181, 184, 185, 189, 193, 212, 213, 220, 226, 233, 246, 247, 250, 260, 261, 266, 270, 287, 289, 293, 297, 301, 302, 314, 321, 339, 341, 344, 354, 356, 358, 359, 364, 365, 377, 383, 418, 424, 425, 426, 430, 440, 442, 464, 465, 469, 472, 473, 477, 479, 484, 499, 502, 505, 507, 513, 518, 541, 552, 566, 577, 579, 587, 593, 594, 596, 609, 618, 630, 631, 645, 648, 650, 651, 656, 698, 716, 718, 719, 720, 721, 724, 737, 765, 771
- ENERGY CONSUMPTION** 14, 18, 20, 54, 62, 67, 77, 82, 86, 100, 101, 103, 108, 109, 113, 121, 124, 128, 129, 142, 152, 160, 166, 179, 180, 181, 184, 185, 187, 188, 191, 193, 211, 212, 222, 235, 236, 239, 240, 244, 245, 250, 251, 261, 270, 278, 279, 291, 296, 303, 314, 321, 339, 340, 345, 351, 354, 356, 358, 359, 364, 366, 383, 394, 401, 417, 418, 419, 424, 425, 428, 440, 442, 463, 464, 466, 467, 473, 474, 484, 489, 491, 499, 502, 505, 525, 528, 542, 554, 566, 570, 577, 587, 589, 590, 593, 594, 595, 605, 606, 609, 618, 638, 648, 650, 653, 663, 664, 695, 710, 718, 719, 730, 737, 743, 746, 752, 762, 763, 764, 765
- ENERGY CONVERSION** 22, 120, 211, 218, 240, 247, 598, 614
- ENERGY DEMAND** 4, 14, 15, 37, 40, 54, 86, 108, 112, 166, 176, 185, 193, 212, 214, 215, 220, 235, 244, 247, 250, 265, 277, 293, 294, 366, 394, 401, 428, 440, 442, 465, 470, 474, 507, 517, 527, 528, 556, 577, 579, 591, 592, 597, 605, 609, 614, 631, 648, 658, 659, 662, 663, 665, 765, 772
- ENERGY EMERGENCY PLANNING** 622, 645, 657, 667, 668
- ENERGY FLOW** 100, 210, 211, 251, 277, 345, 364, 592, 622
- ENERGY INTENSITY** 100, 113, 181, 236, 294, 358, 417, 577
- ENERGY LOSSES** 115
- ENERGY MANAGEMENT** 212, 530
- ENERGY MODELS** 45, 71, 100, 112, 125, 214, 216, 218, 219, 346, 442, 597, 598
- ENERGY POLICY** 1, 37, 103, 156, 193, 207, 220, 221, 240, 251, 270, 346, 347, 359, 442, 472, 608, 630, 631, 660, 667, 714, 716, 721, 722, 724
- ENERGY POLICY AND CONSERVATION ACT** 667
- ENERGY RESERVES** 528
- ENERGY RESOURCES** 14, 193, 233, 240, 376, 465, 474, 527, 606, 614, 668, 672, 719
- ENERGY SHORTAGES** 61, 67, 110, 142, 160, 193, 247, 250, 377, 401, 429, 503, 552, 579, 594, 659, 661, 719, 730, 772
- ENERGY SOURCES** 86, 303, 366, 401, 663, 671
- ENERGY STORAGE** 19, 35, 36, 48, 63, 77, 78, 79, 89, 119, 120, 127, 168, 360, 381, 443, 494, 532, 543, 545, 550, 566, 753, 771
- ENERGY SUPPLIES** 37, 54, 133, 184, 211, 212, 215, 216, 217, 220, 222, 235, 236, 266, 274, 376, 394, 440, 465, 474, 503, 527, 528, 556, 570, 577, 598, 631, 650, 658, 659, 662, 663, 664, 671, 719, 765, 772
- ENERGY SYSTEMS** 125, 570
- ENERGY TRANSPORT** 496
- ENGINEERING** 7, 84, 161, 428, 496, 531, 697
- ENGINES** 7, 9, 10, 17, 30, 57, 73, 158, 183, 242, 275, 276, 305, 342, 363, 378, 435, 530, 534, 544, 647, 698, 705, 763, 766, 768
- ENVIRONMENTAL FACTORS** 237
- ENVIRONMENTAL IMPACT** 16, 22, 63, 69, 125, 151, 162, 180, 184, 185, 192, 195, 243, 251, 302, 314, 342, 364, 368, 406, 421, 440, 452, 459, 482, 568, 579, 599, 613, 647, 649, 650, 651, 660, 663, 668, 681, 700, 761, 774
- ENVIRONMENTAL IMPACT STATEMENTS** 459
- ENVIRONMENTAL PROTECTION AGENCY** 3, 118, 223, 249, 404, 405, 697, 713
- ENVIRONMENTAL QUALITY** 162, 331
- EQUIPMENT** 22, 27, 40, 121, 133, 147, 261, 294, 301, 302, 326, 329, 330, 339, 378, 397, 420, 424, 425, 426, 466, 496, 497, 508, 544, 569, 588, 620, 627, 628, 660, 682, 718, 719, 744, 750
- ESTIMATES** 509, 510
- ETHANOL** 68, 96, 190, 435, 436, 668, 669
- EUROPE** 54, 130, 300, 394, 431, 463, 694
- EVAPORATION** 610
- EXCAVATION** 496
- EXHAUST RECIRCULATION SYSTEMS** 298, 498
- EXPENDITURES** 45, 468, 513, 639, 692, 726, 727, 758
- EXPENSES** 26, 27, 326, 620
- EXPLORATION** 218, 493, 639
- EXPORTS** 54, 150, 211, 322, 357, 430, 431, 432, 591, 636, 638, 664, 672, 715
- EXTRACTION** 670
- FABRICATION** 17, 368, 402
- FAMILY LIFE** 60, 398, 429, 605
- FARM EQUIPMENT** 520, 586
- FEASIBILITY** 10, 167, 234, 302, 543, 616

KEYWORD INDEX

- FEDERAL AVIATION ADMINISTRATION 685
- FEDERAL POWER COMMISSION 721
- FEEDBACK 51, 666
- FIBERS 532
- FINANCIAL DATA 11, 20, 26, 29, 40, 131, 153, 244, 245, 323, 325, 326, 327, 328, 329, 330, 332, 351, 433, 470, 489, 515, 612, 620, 633, 639
- FINANCIAL MANAGEMENT 323
- FINANCING 133, 185, 231, 306, 569, 626, 632, 688, 692
- FINLAND 54, 394
- FIRE 173
- FISHERIES 368
- FISHING INDUSTRY 82
- FLORIDA 76, 227, 427, 438, 527, 623
- FLOW CHARTS 347
- FLOWMETERS 301
- FLUORIDIZED BED PROCESSORS 741
- FLUORIDES 38
- FLYWEELS 12, 13, 56, 77, 119, 120, 166, 167, 272, 315, 316, 381, 382, 443, 477, 532, 543
- FOOD 45, 533, 726, 727
- FOOD INDUSTRY 212, 364, 720
- FORECASTING 7, 8, 10, 11, 14, 15, 32, 37, 49, 52, 54, 62, 65, 66, 67, 75, 82, 101, 104, 107, 108, 117, 121, 125, 127, 133, 140, 141, 142, 148, 149, 152, 155, 162, 165, 174, 177, 179, 181, 183, 186, 199, 207, 215, 218, 219, 220, 225, 231, 247, 249, 252, 258, 260, 261, 266, 274, 279, 281, 282, 297, 307, 314, 317, 318, 334, 339, 346, 347, 354, 365, 366, 372, 375, 377, 379, 394, 394, 399, 408, 426, 442, 443, 446, 447, 449, 450, 453, 456, 458, 464, 465, 469, 471, 474, 476, 483, 493, 501, 506, 510, 511, 516, 517, 530, 537, 539, 541, 542, 543, 555, 556, 557, 558, 559, 560, 568, 577, 592, 597, 599, 608, 609, 622, 641, 650, 658, 659, 661, 663, 678, 683, 684, 685, 697, 699, 742, 743, 744, 745, 765
- FORGING 17
- FORMS (PAPER) 29
- FOSSIL FUELS POWER PLANTS 240
- FOSSIL FUELS 14, 37, 193, 211, 220, 256, 394, 474, 631, 650, 651, 664, 670, 765
- FRANCE 54, 86, 349, 357, 394
- FRICTION 48, 175, 380, 410, 583
- FRUITS 76
- FUEL ADDITIVES 273, 444
- FUEL CELLS 10, 178, 763
- FUEL CONSUMPTION 3, 4, 8, 9, 13, 16, 18, 23, 37, 40, 44, 46, 52, 55, 57, 59, 62, 72, 80, 82, 89, 116, 117, 123, 124, 130, 141, 150, 153, 156, 159, 160, 165, 171, 182, 183, 186, 188, 198, 199, 204, 205, 228, 233, 236, 246, 256, 259, 260, 262, 265, 266, 274, 284, 289, 297, 300, 307, 308, 314, 340, 341, 356, 366, 375, 382, 392, 393, 399, 400, 413, 415, 420, 422, 428, 430, 435, 469, 472, 494, 499, 509, 513, 520, 539, 540, 547, 556, 564, 577, 585, 586, 596, 599, 607, 608, 630, 645, 647, 659, 661, 669, 676, 682, 692, 697, 698, 705, 711, 720, 724, 737, 748, 752, 764, 771, 772
- FUEL ECONOMY 3, 9, 10, 22, 32, 34, 44, 51, 53, 55, 56, 57, 59, 74, 75, 83, 89, 90, 91, 92, 93, 94, 95, 96, 101, 116, 118, 122, 141, 150, 158, 159, 171, 175, 182, 183, 190, 199, 203, 205, 209, 212, 223, 226, 249, 254, 257, 260, 273, 284, 289, 297, 298, 299, 301, 302, 305, 314, 333, 335, 341, 350, 369, 370, 373, 375, 377, 378, 382, 386, 403, 404, 405, 409, 413, 414, 418, 430, 435, 441, 488, 488, 494, 498, 509, 534, 539, 540, 542, 547, 558, 561, 576, 577, 583, 585, 586, 589, 605, 607, 616, 630, 645, 656, 666, 676, 677, 678, 682, 695, 697, 698, 711, 716, 718, 738, 748, 755, 768, 771, 775
- FUEL EFFICIENCY 99, 376
- FUEL INJECTION SYSTEMS 333, 373, 494, 610
- FUEL OIL 158, 187, 211, 256, 303, 470, 473, 486, 503, 572, 638
- FUEL STORAGE 400
- FUEL SUBSTITUTION 622
- FUEL-AIR RATIO 190, 373, 500
- FUELS 41, 54, 62, 191, 314, 376, 394, 444, 478, 530, 556, 597, 598, 648, 671, 688, 765, 767
- FUMIGATION 423
- FUNDING 114, 145, 196, 312, 313, 438, 447, 646, 653, 710, 753, 758
- FURNACES 718
- GAS ENGINES 494
- GAS FLOW 222
- GAS INDUSTRY 222
- GAS STATIONS 411, 470
- GAS TURBINE ENGINES 10, 17, 22, 34, 73, 154, 208, 290, 305, 350, 369, 402, 544, 551, 561, 647, 656, 766, 768
- GAS TURBINES 34, 402, 478, 610
- GAS WELLS 639
- GASOLINE 3, 4, 9, 18, 21, 30, 32, 37, 49, 52, 53, 55, 58, 60, 61, 67, 96, 101, 116, 117, 123, 130, 141, 157, 165, 181, 187, 190, 198, 199, 205, 213, 221, 227, 239, 244, 245, 247, 254, 256, 260, 261, 265, 266, 270, 273, 276, 297, 303, 314, 332, 341, 342, 346, 361, 377, 399, 400, 422, 436, 470, 472, 484, 488, 494, 505, 511, 541, 552, 559, 571, 573, 579, 585, 592, 596, 605, 607, 608, 630, 657, 659, 660, 661, 664, 667, 678, 695, 698, 716, 720, 741, 763
- GEOLOGY 216
- GEORGIA 482, 527
- GEO THERMAL ENERGY 14, 235, 651
- GEO THERMAL POWER GENERATION 664
- GERMAN FEDERAL REPUBLIC 48, 54, 86, 349, 357, 394
- GOVERNMENT POLICIES 1, 16, 30, 62, 66, 67, 69, 99, 101, 106, 107, 113, 114, 124, 143, 145, 151, 157, 162, 169, 170, 180, 186, 189, 196, 206, 207, 246, 247, 251, 281, 283, 286, 289, 297, 302, 303, 312, 313, 314, 339, 358, 359, 365, 383, 387, 394, 406, 421, 424, 425, 427, 434, 440, 442, 449, 459, 465, 474, 482, 491, 499, 502, 503, 513, 533, 542, 546, 558, 559, 577, 587, 594, 605, 606, 607, 609, 611, 617, 622, 625, 626, 627, 628, 629, 632, 649, 652, 657, 659, 660, 667, 669, 674, 692, 694, 695, 697, 698, 700, 708, 710, 714, 717, 718, 719, 720, 721, 722, 730, 758, 761
- GRAPHS (CHARTS) 9, 11, 13, 17, 20, 27, 30, 31, 33, 34, 38, 45, 49, 55, 56, 57, 58, 59, 61, 63, 64, 65, 67, 68, 73, 77, 78, 80, 84, 89, 96, 97, 98, 103, 107, 119, 120, 130, 142, 148, 150, 152, 153, 154, 159, 161, 167, 182, 186, 187, 188, 190, 194, 203, 204, 208, 209, 221, 225, 226, 231, 234, 236, 238, 239, 244, 245, 248, 256, 258, 262, 266, 271, 272, 278, 281, 282, 284, 290, 292, 299, 301, 302, 305, 307, 310, 315, 316, 318, 321, 335, 338, 343, 345, 350, 354, 356, 357, 363, 369, 370, 371, 372, 374, 378, 380, 381, 384, 386, 388, 389, 390, 392, 393, 398, 401, 404, 405, 407, 410, 413, 417, 419, 420, 424, 425, 428, 429, 430, 435, 440, 441, 446, 448, 450, 452, 453, 455, 456, 460, 461, 463, 464, 467, 475, 481, 488, 492, 493, 498, 499, 502, 508, 517, 518, 519, 520, 531, 532, 534, 535, 536, 543, 544, 545, 547, 550, 554, 561, 566, 570, 571, 572, 573, 575, 577, 580, 582, 586, 589, 590, 597, 598, 605, 607, 610, 614, 616, 636, 639, 641, 648, 649, 650, 653, 656, 663, 664, 666, 672, 683, 686, 697, 699, 706, 707, 717, 719, 724, 729, 731, 737, 738, 740, 741, 742, 745, 748, 759, 764, 765, 768, 771, 772, 773, 774, 777
- GREAT LAKES 82, 422, 429, 593
- GROSS NATIONAL PRODUCT 15, 32, 54, 86, 165, 181, 661
- GROWTH 11, 54, 62, 140, 174, 181, 243, 260, 263, 283, 348, 379, 394, 429, 474, 483, 501, 641,

KEYWORD INDEX

- GROWTH** 663, 670, 684, 701, 710, 739, 765
HANDBOOKS 95, 225, 481
HARBORS 638, 644
HAZARDS 173, 276, 368, 376
HEALTH 195, 645, 647, 650, 651
HEALTH HAZARDS 444
HEARINGS 657, 667, 714, 722
HEAT 380
HEAT ENGINES 52, 163, 382, 656
HEAT EXCHANGERS 154, 261, 547, 656
HEAT LOSS 224
HEAT PIPES 78
HEAT PUMPS 121, 235, 469
HEAT RECOVERY 212
HEATING SYSTEMS 364
HELICOPTERS 164
HIGH TEMPERATURE 350, 402
HIGHWAY TRANSPORTATION 16, 31, 61, 78, 103, 183, 226, 228, 230, 233, 252, 260, 262, 266, 267, 302, 307, 314, 331, 376, 379, 435, 437, 444, 447, 448, 457, 464, 494, 513, 554, 577, 580, 601, 629, 647, 653, 674, 675, 688, 692, 698, 744, 767, 769, 774, 775
HIGHWAYS 7, 52, 110, 114, 128, 129, 142, 231, 282, 348, 375, 384, 427, 448, 462, 482, 483, 494, 504, 557, 575, 618, 629, 692, 699, 700, 701, 734, 735, 756, 760, 761
HISTORY 1, 15, 26, 39, 40, 62, 105, 132, 153, 162, 167, 168, 174, 197, 221, 228, 249, 293, 294, 320, 363, 397, 414, 421, 425, 441, 483, 493, 501, 503, 506, 613, 658, 659, 662, 663, 664, 676, 677, 678, 688
HOT WATER HEATING 235
HOTELS 724, 726, 727
HOUSEHOLD GOODS 72, 641
HOUSES 193, 213, 364
HOUSING 97, 160, 191, 270, 371, 372, 447
HUMAN COMFORT 84, 161, 212, 269
HYBRID ELECTRIC-POWERED VEHICLES 12, 13, 47, 48, 63, 89, 104, 119, 120, 163, 166, 167, 168, 188, 192, 194, 202, 212, 272, 291, 315, 349, 363, 421, 443, 466, 467, 477, 478, 407, 532, 535, 543, 546, 549, 646, 647, 655, 696, 729, 744, 771
HYDRIDES 524, 545, 740
HYDROCARBONS 59, 204, 209, 224, 392, 393, 498, 530, 592, 678
HYDROELECTRIC POWER 14, 235, 239, 303, 345, 440, 527, 528
HYDROGEN 9, 17, 177, 208, 494, 524, 545, 564, 740
HYDROGEN FUELS 9, 177, 234
HYDROGEN PRODUCTION 177, 740
HYDROGEN STORAGE 9, 177, 524, 545, 740
IGNITION SYSTEMS 333
ILLINOIS 310
IMPACT SHOCK 2
IMPORTS 37, 54, 121, 125, 158, 211, 240, 257, 266, 322, 357, 376, 401, 429, 431, 432, 433, 442, 474, 503, 591, 614, 636, 638, 658, 663, 664, 665, 672, 715, 719, 747
INCENTIVES 156, 162, 196, 268, 287, 289, 309, 472, 594
INCOME 4, 26, 40, 45, 60, 97, 117, 157, 160, 165, 191, 238, 251, 270, 326, 329, 330, 351, 398, 422, 505, 559, 605, 620, 630, 633, 640, 661, 719, 742
INDEXES (RATIOS) 41
INDIANA 461
INDUSTRIAL SECTOR 22, 37, 54, 62, 86, 112, 156, 179, 191, 211, 212, 214, 235, 239, 247, 251, 256, 303, 339, 345, 364, 365, 366, 469, 528, 543, 597, 598, 606, 620, 641, 648, 650, 651, 661, 663, 668, 716, 719, 740, 747
INDUSTRIES 22, 37, 54, 106, 113, 191, 193, 212, 238, 353, 515, 517, 593, 630, 633, 634, 635, 648, 652, 670, 672, 747
INFLATION 206
INFORMATION 1, 3, 213, 331, 515, 538, 611, 689, 750
INFORMATION CENTERS 253
INFORMATION NEEDS 712
INFORMATION SYSTEMS 331, 347
INJURIES 677, 706
INLAND WATERWAYS 456
INPUT-OUTPUT ANALYSIS 81, 100, 176, 235, 250, 251, 334, 506, 525, 618, 747, 762
INSULATION 22
INSPECTION 297
INSTITUTIONAL FACTORS 169, 312, 313, 507, 543, 546, 613, 732
INSULATION 594
INSURANCE 75, 169, 605, 627, 770
INTERCITY TRANSPORTATION 8, 20, 24, 25, 26, 148, 164, 200, 212, 233, 244, 245, 288, 307, 329, 354, 417, 418, 428, 445, 449, 450, 457, 458, 522, 525, 539, 541, 542, 578, 587, 620, 730, 774
INTERNAL COMBUSTION ENGINES 18, 68, 181, 224, 233, 234, 305, 336, 373, 392, 393, 499, 500, 592, 616, 763
INTERNATIONAL ANALYSIS 54, 104, 158, 192, 266, 349, 394, 476, 591, 642, 643, 654, 663, 765
INTERNATIONAL ORGANIZATIONS 496
INTERNATIONAL RELATIONS 206, 351, 376, 493
INTERNATIONAL TRADE 54, 322, 357, 394, 431, 451, 474, 633, 636, 638, 644, 649, 670, 672, 681, 715, 750, 765
INTERNATIONAL TRAVEL 384, 501, 636, 686, 724
INTERSTATE COMMERCE COMMISSION 124, 626
INTERSTATE TRANSPORTATION 124, 222, 483, 489, 628, 629, 676
INTRACITY TRANSPORTATION 449, 730
INVENTORIES 244, 245, 379, 536, 576, 642, 747
INVESTMENTS 217, 434, 495, 699
IOWA 533
IRON 672
ISRAEL 349
ITALY 54, 86, 349, 357, 394, 624
JAPAN 54, 86, 349, 357, 394, 624, 694
JET AIRCRAFT 132
JET ENGINE FUELS 31, 123, 187, 239, 574
KENTUCKY 527
KEROSENE 658
LABOR ESTIMATES 176
LABOR INTENSITY 251, 489
LABOR MIGRATION 238, 429, 526
LABOR RELATIONS 449
LAMINAR FLOW 370
LAND DEVELOPMENT 162, 243, 348, 387, 485, 761
LAND USE 6, 61, 64, 65, 69, 87, 112, 113, 162, 184, 185, 196, 212, 283, 340, 348, 359, 362, 371, 452, 485, 519, 529, 541, 618, 649, 689, 742, 752, 761
LAWRENCE LIVERMORE LABORATORY 532
LEAD-ACID BATTERIES 89, 111, 115, 120, 166, 201, 278, 281, 285, 321, 353, 492, 553, 736
LEASES 639
LEASING 75
LEGAL ASPECTS 169, 306, 503, 627, 628, 743
LEGISLATION 1, 114, 189, 196, 314, 323, 348, 440, 443, 454, 461, 491, 503, 546, 608, 630, 631, 674, 708, 717, 720, 721, 722, 758

KEYWORD INDEX

- LIABILITIES 169
- LICENSES 692
- LICENSING 688
- LIFE (DURABILITY) 111, 290, 374
- LIFE STYLE 65, 67, 86, 317, 318, 398, 473, 533
- LIFE-CYCLE COST 279, 291, 499, 540, 566, 599
- LIGHT RAIL TRANSIT 703
- LIGHTING SYSTEMS 365
- LIQUEFIED NATURAL GAS 368, 376, 493
- LIQUEFIED PETROLEUM GASES 187, 637
- LIQUID FUELS 668
- LITHIUM 127, 155, 360
- LITHIUM-ALUMINUM/IRON SULFIDE BATTERIES 127, 360
- LITHIUM-ALUMINUM/METAL SULFIDE BATTERIES 35, 127, 278, 619
- LITHIUM-SULFUR BATTERIES 471
- LITHIUM-TITANIUM BATTERIES 353
- LITHIUM-WATER-AIR BATTERIES 155, 241
- LITHIUM/IRON SULFIDE BATTERIES 126
- LITHIUM/METAL SULFIDE BATTERIES 35, 126, 619
- LIVESTOCK 212
- LOAD FACTOR 246, 307, 409, 417, 489, 506
- LOAD MANAGEMENT 108, 127, 212, 360, 619
- LOCAL GOVERNMENT 6, 113, 114, 283, 449, 461, 462, 600, 613, 617, 685, 698, 692, 732, 752
- LOCATION 270
- LOCOMOTIVES 2, 147, 234, 420
- LONG ISLAND (NEW YORK) 113
- LOS ANGELES 259, 279, 280, 281, 282, 311, 455, 462, 624
- LOUISIANA 527
- LOW FLO GAS 486
- LOW INCOME GROUPS 160, 270
- LUBRICANTS 400, 595, 697
- LUBRICATING OILS 257, 261, 586, 728
- LUMBER 45
- LUMBER INDUSTRY 641
- MACHINERY 45, 641
- MAGNESIUM ALLOYS 545
- MAGNESIUM HYDRIDES 524, 545
- MAGNETIC FIELDS 78
- MAGNETOHYDRODYNAMICS 22, 651
- MAINTENANCE 7, 29, 40, 49, 55, 75, 109, 144, 147, 192, 242, 259, 293, 297, 332, 362, 378, 400, 415, 518, 548, 569, 605, 697, 710, 748
- MANAGEMENT 231, 344, 427, 438, 495, 623
- MANPOWER 176, 244, 620
- MANUALS 107, 395
- MANUFACTURERS 84, 99, 147, 158, 249, 254, 349, 378, 404, 414, 430, 433, 441, 467, 496, 621, 625, 634, 677, 695, 705, 720, 750, 775
- MANUFACTURING 17, 46, 191, 211, 238, 275, 264, 378, 398, 619, 635, 641, 697, 755, 766
- MAPS 61, 64, 227, 266, 383, 398, 406, 411, 429, 506, 527, 533, 571, 573, 575, 613, 636, 680, 684, 703
- MARINE TRANSPORTATION 77, 82, 266, 325, 368, 479, 556, 577, 593, 636, 638, 642, 643, 681
- MARKET 60, 68, 121, 122, 124, 141, 181, 192, 197, 201, 221, 222, 225, 258, 274, 285, 302, 313, 336, 349, 353, 399, 426, 433, 457, 476, 483, 499, 517, 536, 558, 559, 564, 592, 601, 604, 650, 655, 658, 659, 737, 744
- MARKETING 7, 225, 254, 268, 269, 310, 332, 479, 565, 571, 573, 641, 667, 697, 777
- MARYLAND 52, 366, 440
- MASS TRANSPORTATION 23, 29, 50, 64, 114, 145, 172, 296, 304, 314, 358, 434, 439, 472, 479, 502, 504, 508, 523, 595, 624, 632, 674, 675, 708, 743, 752, 777
- MASSACHUSETTS 459
- MATERIALS 12, 14, 17, 35, 36, 41, 119, 128, 129, 142, 175, 176, 180, 284, 315, 364, 390, 391, 402, 641, 675, 740, 750, 755
- MATHEMATICAL MODELS 4, 33, 310, 399, 453, 537, 683, 774
- MATHEMATICS 319, 749
- MEASUREMENT 228, 309, 498, 544, 742
- MEASURING INSTRUMENTS 51, 540, 666, 735
- MECHANICAL PROPERTIES 402, 420
- MECHANICAL TRANSMISSIONS 410
- MECHANICAL VIBRATIONS 2
- MECHANICS 498, 749
- MEETINGS 579, 697
- METAL INDUSTRY 641
- METALS 670, 671, 672
- METHANE 568
- METHANOL 10, 21, 68, 96, 190, 276, 342, 361, 435, 488, 494, 592, 668, 669, 741
- MEXICO 42, 54, 394
- MEXICO CITY 624
- MICHIGAN 352
- MIDDLE ATLANTIC STATES 440
- MIDWESTERN STATES 506
- MIGRATION 238, 526
- MILEAGE 3, 40, 42, 43, 51, 75, 92, 118, 181, 183, 198, 242, 262, 270, 404, 470, 590, 678, 690, 692, 694, 695, 748
- MILITARY 530
- MILITARY EQUIPMENT 104
- MILITARY UTILIZATION 658
- MINERALS 14, 390, 670, 671, 672
- MINING 191, 211, 670, 672
- MINNESOTA 622, 704
- MISSISSIPPI 527
- MITIGATION 647
- MIXED-MODE TRANSIT 102, 294, 475
- MIXING 361
- MOBILE HOMES 229
- MOBILITY 243, 295, 302, 460, 480, 578, 584, 702
- MODELS 7, 8, 22, 32, 37, 46, 54, 62, 65, 66, 67, 81, 89, 98, 102, 116, 117, 121, 148, 149, 152, 174, 176, 179, 180, 181, 186, 199, 208, 208, 215, 220, 224, 248, 258, 262, 265, 288, 302, 307, 309, 311, 317, 318, 319, 320, 334, 355, 362, 366, 371, 372, 381, 383, 384, 388, 395, 408, 410, 412, 425, 428, 437, 445, 446, 450, 452, 454, 455, 458, 475, 487, 492, 501, 502, 505, 510, 511, 514, 522, 529, 531, 536, 538, 539, 541, 542, 548, 550, 555, 557, 568, 570, 578, 583, 601, 603, 615, 618, 678, 731, 736, 742, 744, 759, 772, 773, 777
- MODERNIZATION 710
- MODIFICATIONS 234, 259, 342
- MOMENT OF INERTIA 711
- MONITORING 98, 518
- MONTHLY VARIATIONS 264, 666
- MOTOR HOMES 497, 516, 517
- MOTOR TRANSPORTATION 430
- MOTOR VEHICLES 254, 400, 432, 444, 625, 627, 628, 676, 691, 696, 769
- MOTORCYCLES 183, 230, 242, 339, 433, 575, 711, 712
- MOTORS 412
- MUNICH (GERMAN FEDERAL REPUBLIC) 624

KEYWORD INDEX

- NASA 353, 456, 764
 NATIONAL ENERGY PLAN 32, 101, 156, 247, 442, 631, 695, 716, 718, 724
 NATURAL GAS 14, 45, 156, 184, 211, 212, 213, 214, 215, 216, 217, 218, 220, 222, 235, 239, 240, 244, 245, 247, 259, 266, 274, 303, 345, 368, 376, 394, 401, 406, 440, 442, 473, 486, 503, 527, 528, 570, 591, 594, 597, 606, 614, 622, 631, 633, 639, 645, 650, 663, 664, 670, 672, 716, 765
 NATURAL GAS LIQUIDS 493
 NATURAL RESOURCES 1
 NET ENERGY 235, 525
 NETHERLANDS 54, 86, 349, 394
 NEW ENGLAND 366
 NEW JERSEY 366, 383, 440, 579
 NEW YORK 112, 198, 199, 200, 260, 341, 366, 440, 472
 NEW YORK CITY 148, 419, 452, 480, 508, 624
 NEW ZEALAND 431
 NEWPORT (RHODE ISLAND) 613
 NICKEL-IRON BATTERIES 111
 NICKEL-ZINC BATTERIES 111, 146, 276, 281, 353, 492
 NITROGEN 208
 NITROGEN DIOXIDE 209
 NITROGEN OXIDES 31, 59, 204, 299, 392, 393, 498, 678
 NOISE (SOUND) 16, 162, 541, 682
 NOISE POLLUTION 195, 246, 279, 340, 452, 628
 NORTH AMERICA 431
 NORTH CAROLINA 459, 527, 760
 NORTHEASTERN STATES 366, 429, 609, 693
 NORWAY 54, 86, 394
 NUCLEAR ENERGY 14, 184, 185, 212, 235, 247, 345, 394, 440, 631, 651, 664, 716, 740, 765
 NUCLEAR FUELS 376, 597, 663, 672
 NUCLEAR POWER 22, 239, 303, 527
 NUCLEAR POWER PLANTS 14
 NUCLEAR REACTOR SAFETY 716
 OCCUPANCY 605
 OCCUPATIONS 102, 264
 OCEAN THERMAL ENERGY CONVERSION 651
 OCTAWE 261, 273, 571, 573, 592
 ODOMETERS 627
 OHIO 440, 622
 OHIO RIVER 555
 OIL SHALE 30, 530, 592
 OIL WELLS 591, 639
 OILS 80, 728
 OKLAHOMA 527
 OPEC 212, 394, 442, 559, 765
 OPERATING COSTS 29, 75, 89, 91, 94, 95, 131, 132, 186, 231, 259, 293, 325, 326, 330, 339, 351, 370, 415, 433, 501, 518, 531, 541, 554, 584, 605, 612, 710, 737, 756
 OPERATION 42, 84, 132, 169, 186, 212, 263, 326, 329, 404, 414, 417, 481, 585, 709, 745
 OPTIMIZATION 125, 395, 448, 495, 534
 ORGANIZATIONS 700
 OSLO 624
 OTTAWA-CARLETON (CANADA) 258
 OTTO CYCLE 10
 OWNERS 60, 97, 198, 225, 252, 291, 399, 433, 446, 450, 473, 511
 OWNERSHIP 46, 67, 75, 198, 233, 242, 263, 265, 268, 270, 280, 317, 318, 327, 328, 371, 372, 377, 379, 430, 459, 468, 576, 579, 692, 702, 760, 770
 OXIDATION 208
 PAPER INDUSTRY 191, 641
 PARATRANSIT 344, 504, 743, 770
 PARIS 624
 PARK-AND-RIDE 461
 PARKING 143, 268, 776
 PASSENGER ENPLANEMENTS 135, 136, 137, 138, 139, 174, 384, 684, 686, 707
 PASSENGER TRANSPORTATION 5, 20, 23, 40, 84, 85, 89, 91, 92, 93, 94, 95, 102, 123, 134, 136, 137, 138, 139, 143, 147, 153, 164, 170, 174, 192, 244, 245, 249, 250, 269, 282, 288, 293, 294, 302, 304, 307, 325, 326, 330, 340, 344, 351, 354, 355, 356, 364, 367, 384, 399, 403, 417, 418, 420, 430, 446, 458, 460, 462, 464, 476, 480, 489, 501, 502, 541, 577, 578, 581, 589, 590, 603, 612, 618, 627, 643, 656, 683, 686, 690, 691, 693, 695, 696, 698, 702, 703, 704, 705, 707, 709, 710, 730, 737, 744, 757, 770, 776, 777
 PATENTS 168
 PAYROLLS 727
 PEAK-HOUR DEMAND 448, 481, 508, 580
 PEDESTRIANS 344, 352
 PENNSYLVANIA 366, 440, 704
 PERFORMANCE 9, 11, 12, 31, 34, 36, 38, 53, 58, 59, 63, 70, 79, 89, 96, 109, 111, 126, 130, 131, 132, 140, 146, 150, 154, 161, 166, 175, 178, 188, 190, 192, 194, 202, 212, 234, 241, 244, 245, 248, 255, 257, 278, 290, 300, 321, 336, 342, 344, 367, 373, 386, 389, 392, 393, 395, 405, 407, 409, 410, 413, 414, 415, 420, 423, 435, 466, 467, 488, 492, 499, 507, 534, 544, 547, 549, 550, 551, 561, 563, 566, 589, 590, 615, 616, 617, 696, 698, 699, 705, 709, 719, 728, 729, 731, 736, 738, 755, 759, 771, 775
 PERSONAL RAPID TRANSIT 5
 PETROCHEMICALS 240, 493
 PETROLEUM 30, 32, 39, 45, 108, 125, 142, 151, 152, 156, 166, 184, 185, 187, 215, 216, 217, 218, 220, 221, 235, 240, 244, 245, 247, 261, 266, 274, 279, 281, 314, 345, 364, 368, 376, 394, 401, 440, 442, 470, 474, 493, 503, 507, 527, 528, 530, 546, 556, 564, 570, 577, 591, 594, 597, 606, 631, 631, 637, 638, 639, 650, 653, 658, 659, 661, 663, 664, 665, 667, 668, 672, 673, 681, 695, 716, 717, 719, 765, 772
 PETROLEUM INDUSTRY 46, 261, 493, 503, 639
 PETROLEUM PRODUCTS 39, 72, 105, 187, 214, 261, 303, 527, 591, 597, 637, 665, 670, 724
 PETROLEUM REFINERIES 49, 221, 65, 673
 PETROLEUM REFINING 30, 49, 53, 261, 300, 493, 591, 672, 728
 PHILADELPHIA 279, 281, 624
 PHOTOGRAPHS 10, 17, 34, 48, 74, 84, 85, 147, 158, 192, 194, 197, 234, 349, 353, 396, 402, 448, 494, 519, 553, 581, 590, 632, 656, 683, 697, 709, 738, 775
 PHOTOVOLTAIC CELLS 22
 PHOTOVOLTAIC CONVERSION 22, 651
 PHYSICAL PROPERTIES 420, 532, 571, 573
 PHYSICS 319
 PILOT PLANTS 486
 PIPELINE TRANSPORTATION 39, 220, 222, 244, 245, 266, 323, 376, 479, 513, 531, 577, 644, 744
 PIPELINES 77, 212, 368, 464, 493, 496, 622
 PLANNING 6, 7, 64, 66, 69, 87, 91, 94, 95, 95, 99, 106, 107, 113, 114, 143, 145, 196, 227, 231, 243, 250, 251, 258, 268, 269, 283, 292, 297, 304, 308, 319, 355, 366, 368, 377, 383, 385, 427, 429, 438, 446, 449, 450, 451, 452, 454, 455, 456, 457, 458, 459, 460, 461, 462, 464, 465, 482, 495, 504, 508, 529, 537, 538, 548, 554, 557, 569, 578, 582, 584, 587, 600, 601, 602, 623, 631, 632, 646, 647, 649, 650, 654, 657, 667, 668

KEYWORD INDEX

- PLANNING 669, 685, 689, 700, 704,
 713, 730, 732, 739, 742, 752,
 756, 758, 761, 772, 777
- PLASTICS 512, 672, 755
- PLYMOUTH (MASSACHUSETTS) 613
- PNEUMATIC TRANSPORT 531, 774
- POLITICAL OBJECTIVES 429
- POLLUTION 185, 368, 746
- POLLUTION CONTROL 261, 768
- POLLUTION CONTROL EQUIPMENT 59
- POLLUTION REGULATIONS 46, 387,
 444, 681, 768
- POPULATION (STATISTICS) 97, 102,
 136, 199, 238, 266, 317, 319,
 320, 473, 624, 640, 702, 742,
 757, 760, 773
- POPULATION DYNAMICS 320
- POPULATION GROWTH 67, 140, 398
- POPULATION MIGRATION 398, 429
- PORTLAND (OREGON) 60
- PORTS 593
- POSTAL SERVICE 159, 477
- POVERTY 640, 702, 704
- POWER TRAIN SYSTEMS 167, 412, 478,
 549
- PRECHAMBER ENGINES 333
- PRESSURE MEASUREMENT 544
- PRICES 4, 15, 19, 37, 41, 46, 48,
 54, 61, 62, 86, 101, 105, 117,
 121, 122, 123, 128, 156, 157,
 158, 165, 199, 211, 216, 217,
 219, 220, 221, 244, 245, 270,
 289, 297, 303, 346, 354, 377,
 394, 399, 405, 422, 440, 442,
 497, 503, 505, 511, 511, 517,
 546, 552, 556, 559, 578, 591,
 594, 597, 598, 604, 606, 607,
 614, 619, 622, 631, 633, 637,
 658, 659, 660, 661, 663, 664,
 668, 715, 716, 717, 719, 747,
 765, 775
- PROCESSING 17, 493, 755
- PRODUCTION 17, 21, 30, 68, 84, 86,
 99, 100, 156, 185, 192, 206, 211,
 212, 218, 220, 254, 274, 276,
 322, 345, 361, 364, 378, 390,
 394, 401, 414, 430, 431, 432,
 440, 442, 474, 493, 512, 515,
 517, 520, 528, 591, 592, 599,
 612, 622, 639, 665, 669, 670,
 672, 673, 717, 747, 750, 765
- PROFITS 11, 106, 612, 737
- PROJECT INDEPENDENCE 214, 215,
 216, 217, 218, 219, 220
- PROPANE 31, 290, 303, 622
- PROPERTIES 276, 342, 435, 592
- PROPERTY VALUES 575, 617
- PROVISIONS 7, 47, 63, 277, 291,
 428, 478
- PROTECTION 323
- PRUDHOE BAY (ALASKA) 406
- PUBLIC BUILDINGS 365
- PUBLIC OPINION 122, 143, 189, 333,
 352, 377, 405, 422, 472, 482,
 541, 584, 594
- PUBLIC RELATIONS 95, 725
- PUBLIC SERVICES 657, 667
- PUBLIC TRANSPORTATION 33, 103,
 107, 144, 153, 170, 212, 289,
 331, 344, 383, 439, 455, 461,
 462, 463, 502, 508, 513, 519,
 552, 565, 577, 584, 690, 691,
 702, 726, 727, 756
- PUBLIC UTILITIES 259
- PUERTO RICO 174, 440, 673
- PURCHASES 400
- PURCHASING 93, 122, 341, 536, 576,
 657, 744
- PYROMETERS 301
- QUESTIONNAIRES 50, 157, 242, 304,
 309, 310, 336, 341, 385, 400,
 472, 565, 581, 601, 636, 680,
 729, 760, 769
- RACE 264, 640
- RAIL TRANSPORTATION 5, 8, 23, 39,
 40, 41, 77, 103, 147, 151, 173,
 200, 212, 220, 228, 234, 236,
 244, 245, 266, 286, 294, 307,
 308, 314, 323, 326, 328, 330,
 331, 339, 354, 358, 362, 376,
 416, 417, 418, 419, 424, 425,
 426, 428, 430, 451, 456, 457,
 463, 464, 476, 479, 489, 491,
 502, 506, 508, 513, 525, 531,
 533, 539, 548, 554, 555, 569,
 577, 587, 601, 617, 624, 626,
 629, 649, 674, 675, 693, 694,
 701, 710, 724, 726, 730, 746,
 752, 758, 772, 774, 777
- RAILROAD CARS 2, 147, 328, 417,
 420, 456
- RAILROAD TRACKS 419
- RAILROADS 16, 40, 42, 43, 308,
 326, 330, 420, 425, 456, 479,
 506, 533, 569, 601, 617, 626,
 628, 675, 694, 694, 710, 732
- RANKINE CYCLE ENGINES 10, 22, 73,
 305, 369, 478, 616, 766, 768
- RANKINE CYCLE POWER SYSTEMS 487
- RAPID TRANSIT SYSTEMS 5, 33, 70,
 77, 236, 250, 362, 416, 418, 460,
 462, 463, 485, 490, 508, 519,
 554, 587, 710
- RATES (COSTS) 7, 8, 76, 123, 286,
 334, 376, 505, 523, 537, 546,
 601, 614, 626, 649, 692
- RATIONING 181, 198, 289, 297, 622,
 657, 667
- RAW MATERIALS 239, 592
- READING (PENNSYLVANIA) 64
- RECLAMATION 672
- RECOVERY 167, 616, 765
- RECREATION 446, 450, 517, 613,
 680, 742
- RECREATION VEHICLES 82, 149, 229,
 252, 339, 497, 515, 516, 517, 750
- RECREATIONAL TRAVEL 65, 422, 724
- RECUPERATION 369
- RECYCLING 364, 734
- REFINERIES 220, 658
- REFINING 493, 503, 592
- REFRIGERATION 76, 328
- REFUELING 545
- REGENERATION 369
- REGENERATIVE BRAKING 120, 167,
 168, 188, 338, 508
- REGENERATIVE FUEL CELLS 120
- REGENERATORS 154
- REGIONAL ANALYSIS 8, 14, 24, 41,
 42, 43, 81, 97, 112, 113, 135,
 136, 137, 138, 152, 164, 174,
 179, 187, 191, 199, 222, 225,
 227, 230, 238, 253, 256, 260,
 266, 274, 294, 303, 318, 324,
 325, 326, 329, 339, 343, 344,
 345, 366, 376, 398, 422, 429,
 431, 440, 446, 455, 462, 463,
 472, 473, 483, 484, 501, 502,
 506, 508, 517, 526, 527, 528,
 531, 533, 546, 554, 570, 572,
 600, 601, 609, 617, 620, 624,
 635, 636, 637, 640, 644, 660,
 661, 665, 670, 673, 683, 684,
 686, 699, 702, 703, 704, 710,
 723, 757
- REGIONAL PLANNING 5
- REGIONAL TRANSPORTATION 330
- REGRESSION ANALYSIS 205, 303, 409
- REGULATIONS 16, 124, 143, 149,
 151, 169, 186, 221, 284, 289,
 323, 376, 406, 418, 424, 425,
 425, 469, 485, 491, 499, 503,
 513, 546, 577, 625, 626, 627,
 628, 657, 658, 659, 660, 661,
 663, 682, 695, 698, 708, 717,
 721, 745, 770
- RELIABILITY 466
- REPAIR 55, 75, 332, 748
- REPUBLIC OF KOREA 624
- RESEARCH 7, 44, 66, 111, 126, 146,
 178, 192, 194, 195, 201, 202,
 236, 241, 247, 251, 253, 295,
 312, 313, 315, 316, 349, 353,
 361, 363, 374, 395, 426, 465,
 492, 504, 510, 521, 530, 543,
 545, 553, 578, 646, 650, 652,
 653, 655, 668, 669, 716, 729,
 730, 733, 769
- RESEARCH PROGRAMS 104, 298, 360,
 532, 652, 695, 697, 753
- RESERVES 216, 240, 390, 394, 401,
 765
- RESIDENTIAL SECTOR 37, 54, 62, 86,
 108, 112, 113, 156, 160, 179,
 184, 191, 211, 212, 213, 214,
 235, 239, 247, 251, 256, 303,
 341, 345, 346, 364, 365, 366,

KEYWORD INDEX

- RESIDENTIAL SECTOR 371, 372, 469, 477, 485, 528, 543, 547, 598, 606, 645, 650, 663, 664, 718, 719, 740, 747, 776
- RESIDUAL OILS 187, 256, 556
- RESOURCES 176, 671
- RETAIN TRADE 45, 75, 411, 637, 641
- RETROFIT DEVICES 302
- RETROFITTING 289, 302, 364, 710, 719
- REVENUE 20, 23, 26, 27, 40, 52, 135, 151, 174, 244, 245, 294, 320, 325, 326, 327, 329, 329, 330, 351, 612, 620, 626, 630, 639, 683, 692, 727, 756
- RHODE ISLAND 715
- RIGHT-OF-WAY 70, 144, 462, 703
- RISKS 760
- RIVERS 28
- ROAD TESTS 88, 158, 535, 775
- ROADS 175, 322, 343, 430, 575, 692, 713
- ROCKY MOUNTAINS 238
- ROTORS 17, 381, 402
- RURAL APPAS 238, 343, 398, 429, 448, 460, 526, 533, 579, 677, 702, 760
- RURAL TRANSPORTATION 114, 533, 702, 704
- SAFETY 7, 20, 27, 78, 84, 110, 114, 141, 184, 187, 149, 151, 177, 189, 195, 229, 230, 231, 252, 302, 351, 353, 369, 376, 427, 454, 495, 507, 543, 550, 596, 625, 627, 629, 645, 647, 650, 651, 674, 675, 677, 679, 680, 696, 698, 700, 706, 760, 769
- SAIGON (VIETNAM) 455
- SAIN'T LOUIS (MISSOURI) 279, 281
- SALZM (MASSACHUSETTS) 613
- SALES 37, 108, 117, 141, 158, 183, 197, 221, 225, 254, 332, 411, 432, 433, 441, 511, 515, 516, 517, 558, 577, 637, 639, 639, 659, 661, 664, 667, 677, 715, 747, 750
- SALTS 38
- SAN DIEGO 502
- SAN FRANCISCO 624
- SCHEDULING 7, 98, 139, 144, 438, 548, 557, 623, 733
- SCHOOLS 94, 95, 468, 690
- SEALS 381
- SEASONAL VARIATIONS 256, 264, 273, 715
- SEATTLE 624
- SERVICES 11, 106, 136, 137, 138, 153, 200, 293, 298, 332, 439, 476, 496, 513, 552, 687, 707, SERVICES 746, 774
- SEX 97, 198, 337, 472, 640, 760
- SHAFTS 381
- SHIPMENTS 222, 538, 539, 649
- SHIPS 339, 479, 593, 638, 642, 643
- SHOPPING 372, 450
- SHOPPING CENTERS 352
- SHOPPING TRIPS 371, 514, 742
- SHORTAGES 60, 341, 657
- SILICON CARBIDES 402
- SILICON NITRIDES 402
- SIMULATION 7, 37, 65, 115, 180, 186, 214, 294, 395, 454, 487, 549, 550, 558, 559, 570, 587, 615, 689, 754
- SIoux CITY (IOWA) 64
- SITE SELECTION 185, 490
- SIZE 4, 12, 117, 183, 198, 249, 175, 391, 396, 403, 405, 497, 511, 576, 712, 731, 744
- SLURRIES 531
- SLURRY PIPELINES 274, 464, 774
- SOCIAL IMPACT 457, 613, 631
- SOCIAL IMPACT ASSESSMENT 452
- SOCIAL PROBLEMS 429
- SOCIO-ECONOMIC FACTORS 5, 6, 8, 40, 67, 69, 97, 157, 160, 195, 198, 199, 237, 243, 250, 258, 265, 287, 296, 320, 346, 371, 372, 377, 379, 398, 447, 453, 459, 465, 502, 526, 533, 541, 605, 624, 631, 649, 651, 668, 683, 691, 702, 726, 742, 761
- SODIUM-SULFUR BATTERIES 374
- SOLAR COLLECTORS 22
- SOLAR ENERGY 14, 22, 193, 212, 469, 614, 650, 651, 664, 716, 719, 740
- SOLAR SPACE HEATING 235, 364
- SOLID WASTES 423, 452, 668
- SOUTH AMERICA 431
- SOUTH CAROLINA 527, 552, 704
- SOUTHEASTERN STATES 238
- SOUTHERN STATES 429, 527, 528
- SOUTHWESTERN STATES 238
- SPACE HEATING 160, 212, 213, 235, 240, 270, 473, 614, 645, 718
- SPAIN 624
- SPARK IGNITION ENGINES 10, 58, 224, 369, 478, 498, 589, 697, 766, 768
- SPECIFICATIONS 85, 389
- SPEED LIMITS 101, 110, 141, 297, 419, 541, 676, 677, 692
- SPRAYS 208
- STABILITY 429, 524
- STANDARDS 89, 101, 129, 179, 202, 203, 212, 224, 254, 289, 297, 335, 365, 376, 430, 441, 444, 590, 594, 607, 625, 627, 628, 695, 696, 697, 718, 719, 720
- STATE ANALYSIS 42, 43, 101, 110, 139, 169, 191, 222, 238, 239, 263, 264, 265, 266, 303, 365, 366, 411, 440, 459, 461, 468, 470, 502, 526, 527, 528, 622, 632, 637, 640, 644, 657, 661, 670, 673, 677, 679, 700, 701, 702, 704, 725, 727, 757, 760, 770
- STATE GOVERNMENT 6, 107, 114, 227, 231, 297, 365, 385, 398, 427, 438, 456, 457, 461, 482, 533, 575, 617, 623, 645, 685, 688, 692, 700
- STATISTICAL ANALYSIS 267, 319, 509
- STATISTICS 11, 23, 26, 27, 28, 39, 40, 75, 105, 131, 132, 134, 136, 137, 138, 139, 174, 191, 200, 206, 225, 244, 245, 253, 264, 267, 314, 322, 324, 326, 327, 328, 329, 330, 332, 339, 351, 429, 430, 431, 432, 433, 468, 501, 542, 555, 574, 577, 606, 611, 612, 618, 620, 633, 637, 638, 639, 643, 644, 664, 670, 677, 683, 687, 688, 690, 692, 693, 697, 715, 726, 727, 747
- STEAM 235
- STEEL MAKING 177
- STEELS 672, 755
- STIRLING ENGINES 22, 38, 58, 73, 99, 154, 181, 369, 395, 478, 494, 547, 615, 647, 656, 738, 766, 768
- STOCHASTIC PROCESSES 65
- STOCKHOLM 624
- STOCKS 558
- STORAGE 163, 637
- STRATIFICATION 509
- STRATIFIED CHARGE ENGINES 10, 58, 130, 305, 478, 647, 766, 768
- STRESS ANALYSIS 154, 315, 316
- SUBSIDIES 7, 151, 587
- SUBURBAN AREAS 112, 348, 761
- SUBWAYS 508
- SULFUR 142, 256
- SUPPLY (ECONOMICS) 14, 49, 216, 217, 218, 219, 221, 251, 556, 570, 614, 650, 671, 717, 747, 765
- SURFACES 175
- SURVEYS 3, 25, 60, 71, 83, 105, 122, 157, 160, 213, 232, 242, 254, 258, 270, 280, 282, 287, 304, 310, 337, 341, 352, 357, 377, 400, 446, 466, 472, 473, 480, 484, 538, 552, 571, 572, 573, 576, 581, 593, 601, 605, 636, 680, 690, 691, 700, 712, 723, 729, 756, 769, 770, 777

KEYWORD INDEX

- SWEDEN 58, 86, 389, 357, 398
- SWITZERLAND 628
- SYNTHESIS 177
- SYNTHETIC FUELS 18, 30, 52, 58, 220, 278, 423, 478, 530, 568, 586, 599, 614, 647, 653, 741
- SYNTHETIC GAS 597
- SYNTHETIC PETROLEUM 592, 597
- SYSTEMS ANALYSIS 100, 163, 291, 305, 319, 320, 345, 347, 536, 662, 762
- TABLES (DATA) 8, 9, 14, 15, 17, 20, 23, 24, 25, 26, 27, 28, 30, 33, 37, 39, 40, 41, 42, 46, 50, 54, 55, 57, 58, 59, 61, 63, 64, 65, 72, 75, 76, 77, 78, 82, 84, 88, 89, 97, 100, 101, 102, 103, 106, 107, 108, 110, 113, 116, 119, 124, 125, 130, 131, 132, 133, 138, 135, 136, 137, 138, 139, 148, 152, 153, 154, 157, 159, 160, 162, 164, 165, 167, 168, 171, 173, 174, 176, 179, 180, 181, 183, 186, 187, 188, 189, 191, 199, 200, 203, 204, 206, 207, 210, 211, 213, 214, 219, 220, 221, 222, 223, 225, 226, 227, 232, 233, 234, 235, 238, 239, 240, 242, 244, 245, 248, 249, 252, 254, 256, 258, 260, 261, 266, 274, 280, 281, 282, 290, 292, 293, 294, 297, 300, 301, 303, 308, 310, 315, 317, 318, 321, 322, 324, 325, 326, 327, 328, 329, 332, 336, 339, 340, 341, 342, 343, 344, 346, 351, 355, 356, 357, 363, 364, 365, 366, 369, 372, 378, 382, 384, 386, 388, 389, 390, 391, 392, 393, 394, 398, 399, 400, 402, 403, 405, 406, 407, 409, 412, 414, 417, 418, 419, 420, 425, 427, 428, 429, 431, 440, 441, 448, 449, 453, 454, 455, 456, 460, 461, 463, 464, 466, 467, 469, 473, 474, 475, 476, 480, 483, 486, 488, 499, 501, 502, 503, 505, 506, 507, 508, 509, 516, 517, 518, 524, 526, 527, 528, 530, 531, 532, 534, 536, 538, 539, 543, 545, 546, 550, 552, 554, 557, 559, 560, 561, 566, 571, 572, 573, 575, 576, 577, 579, 581, 582, 586, 587, 591, 592, 593, 597, 598, 599, 600, 601, 605, 606, 608, 609, 612, 614, 617, 620, 622, 624, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 641, 642, 644, 649, 650, 658, 659, 661, 663, 664, 665, 666, 668, 670, 671, 671, 673, 674, 675, 676, 677, 678, 679, 680, 683, 684, 686, 687, 688, 690, 691, 692, 697, 699, 700, 701, 702, 703, 705, 706, 707, 710, 711, 712, 715, 717, 718, 719, 723, 724, 726, 727, 728, 729, 736, 737, 741, 742, 743, 744, 747, 754, 757, 760, 762, 763, 765, 767, 771, 772, 774, 777
- TANKER SHIPS 368, 376, 556, 642, 681
- TARIFFS 323, 537, 539
- TAXES 27, 32, 43, 52, 75, 101, 117, 141, 165, 169, 207, 247, 297, 330, 430, 476, 541, 542, 546, 559, 575, 587, 607, 608, 617, 630, 688, 692, 716
- TAXICABS 170, 285, 397, 460, 518, 751
- TECHNOLOGY 15, 67, 99, 168, 179, 212, 224, 254, 272, 278, 298, 315, 316, 370, 374, 389, 402, 426, 447, 469, 518, 543, 614, 647, 651, 697, 741, 745
- TECHNOLOGY ASSESSMENT 69, 117, 119, 176, 177, 233, 312, 313, 388, 412, 507, 632, 650, 653
- TELECOMMUNICATION 212
- TEMPERATURE 80, 109, 544, 551
- TENNESSEE 527
- TESTING 18, 34, 36, 51, 55, 57, 58, 79, 80, 84, 88, 96, 118, 119, 126, 168, 175, 182, 188, 190, 194, 203, 209, 223, 224, 249, 257, 272, 273, 290, 299, 300, 310, 312, 316, 342, 370, 373, 380, 381, 388, 389, 392, 393, 402, 404, 415, 435, 444, 466, 467, 487, 488, 494, 498, 509, 534, 535, 540, 544, 549, 551, 572, 581, 585, 588, 589, 590, 616, 666, 676, 682, 696, 697, 711, 728, 748, 754
- TEXAS 76, 101, 527
- TEXTILE INDUSTRY 191
- THERMAL COMFORT 161
- THERMAL EFFICIENCY 9, 365
- THERMAL ENERGY STORAGE EQUIPMENT 22, 38
- THERMAL INSULATION 289, 346, 364, 716
- THERMIONICS 22
- THERMOCHEMICAL PROCESSES 740
- THERMODYNAMIC PROPERTIES 208, 615
- THERMODYNAMICS 154, 251
- TIME SERIES ANALYSIS 4
- TIRES 88, 158, 158, 175, 380, 410, 470, 583, 750
- TONNAGE 39, 40, 266, 324, 325, 449, 539, 601, 642, 643
- TORQUE 544
- TOURISM 6, 253, 265, 422, 476, 613, 723, 724, 725, 727
- TOXICITY 68, 342, 444
- TRACTORS 233, 520, 586
- TRADE 81, 633, 644
- TRAFFIC 7, 64, 110, 131, 133, 134, 135, 204, 205, 252, 267, 286, 292, 322, 340, 344, 351, 375, 448, 449, 450, 555, 557, 578, 613, 618, 635, 644, 682, 687, 689, 707, 732, 733, 742, 767
- TRAFFIC CONTROL 87, 143, 144, 267, 297, 348, 362, 375, 437, 448, 462, 481, 504, 546, 629, 677
- TRAFFIC COUNT 735
- TRAILERS 396, 516, 517, 621
- TRANSBUS 84, 85, 581
- TRANSUCERS 2
- TRANSIT STATIONS 144, 172, 362, 490
- TRANSMISSION 740
- TRANSPORTATION 5, 16, 23, 45, 50, 52, 54, 60, 62, 66, 71, 77, 81, 83, 86, 101, 103, 107, 108, 112, 113, 119, 123, 142, 143, 151, 156, 160, 166, 168, 173, 179, 180, 180, 181, 184, 185, 187, 189, 191, 193, 200, 211, 212, 213, 214, 215, 218, 220, 228, 229, 235, 236, 237, 239, 240, 244, 247, 249, 251, 253, 258, 271, 281, 283, 287, 291, 296, 306, 314, 319, 320, 323, 329, 331, 339, 340, 342, 345, 354, 359, 363, 364, 365, 366, 371, 376, 388, 390, 398, 399, 406, 427, 438, 443, 446, 454, 455, 456, 458, 459, 464, 465, 469, 472, 476, 479, 483, 485, 504, 507, 511, 513, 514, 518, 528, 529, 530, 531, 533, 543, 550, 568, 570, 578, 579, 587, 592, 594, 596, 597, 598, 600, 606, 609, 611, 614, 622, 623, 628, 630, 633, 636, 637, 641, 645, 647, 650, 651, 654, 656, 658, 661, 663, 664, 672, 674, 675, 677, 678, 680, 690, 697, 700, 701, 706, 712, 716, 718, 719, 720, 724, 728, 730, 733, 740, 747, 757, 769
- TRANSPORTATION DISADVANTAGED 84, 460, 461, 472, 581, 702, 704
- TRANSPORTATION MODE CHOICE 8, 60, 102, 148, 258, 266, 513, 542, 555, 582, 618, 691
- TRANSPORTATION SYSTEMS 5, 8, 64, 67, 69, 78, 87, 98, 140, 196, 243, 344, 352, 387, 406, 416, 418, 460, 463, 480, 489, 504, 582, 600, 700, 702, 739, 742, 752, 756, 761, 773
- TRAVEL 6, 7, 8, 33, 140, 157, 189, 200, 237, 252, 253, 258, 266, 280, 292, 341, 377, 408, 445, 446, 450, 453, 455, 458, 459, 475, 476, 497, 510, 529, 541, 552, 562, 577, 604, 613, 688, 689, 690, 691, 692, 699, 723, 724, 725, 726, 727, 739, 742, 769
- TRAVEL TIME 102, 204, 232, 271, 292, 295, 304, 310, 355, 419, 475, 483, 521, 522, 539, 578, 580, 582, 602, 603, 690
- TRENDS 571, 573, 664
- TRUCKS 24, 25, 26, 27, 39, 72, 75, 76, 101, 106, 110, 122, 124, 158, 159, 161, 173, 183, 192, 209, 225, 228, 233, 244, 245, 254, 259, 266, 302, 314, 321, 324, 336, 340, 343, 369, 376, 378, 379, 386, 396, 397, 400, 418, 421, 425, 428, 430, 432, 441, 449, 451, 456, 470, 479, 483, 497, 517, 525, 531, 539, 547, 575, 596, 601, 616, 620, 621, 624, 634, 635, 649, 666, 678, 691, 696, 698, 718, 720, 723, 726, 728, 732, 735, 742, 744, 750, 767, 769, 774
- TURBINE BLADES 17

KEYWORD INDEX

- TURBINES 17, 658
 TURBOCHARGING 369
 TURBOCOMPOUNDING 369
 TURBOPROPS 356
 TUSCON (ARIZONA) 113
 U-GAS PROCESS 486
 UNCONVENTIONAL ENERGY SOURCES 22,
 212, 247, 394, 651, 663, 765
 UNDERGROUND FACILITIES 496
 UNEMPLOYMENT 206, 264
 UNITED KINGDOM 54, 86, 349, 357,
 394, 553, 612, 624
 UNITED STATES 54, 394
 UNLEADED AUTOMOTIVE FUELS 470,
 571, 573
 URANIUM 597, 670, 672
 URANIUM ORE 14
 URBAN AREAS 64, 87, 97, 123, 136,
 180, 183, 162, 164, 225, 227,
 238, 243, 282, 319, 320, 343,
 352, 371, 372, 375, 429, 448,
 459, 483, 519, 526, 529, 546,
 580, 606, 613, 632, 677, 709,
 732, 739, 742, 743, 756, 757,
 760, 761, 773, 776
 URBAN DEVELOPMENT 398
 URBAN TRANSPORTATION 5, 16, 29,
 33, 64, 66, 89, 106, 114, 144,
 145, 151, 153, 164, 170, 172,
 204, 205, 212, 226, 237, 248,
 250, 258, 260, 279, 280, 285,
 287, 311, 314, 331, 340, 341,
 343, 348, 358, 359, 367, 372,
 377, 416, 418, 419, 434, 445,
 446, 447, 449, 450, 451, 453,
 454, 455, 457, 458, 460, 461,
 462, 463, 475, 498, 502, 505,
 508, 513, 514, 518, 522, 535,
 554, 566, 577, 579, 580, 582,
 584, 600, 613, 624, 632, 649,
 674, 676, 689, 701, 703, 708,
 739, 742, 754, 756, 770, 772, 773
 US DEPT OF COMMERCE 720
 US DOE 1, 67, 195, 202, 404, 544,
 646, 652, 654, 655, 656, 661,
 662, 669, 714, 721, 722
 US DOT 143, 145, 606, 675, 710
 US ERDA 1, 22, 44, 194, 250, 251,
 360, 465, 721
 US FEA 1, 3, 215, 503, 721
 USA 349, 496, 612, 638
 USERS 576
 UTILITIES 177, 192, 211, 496, 619,
 716
 UTILIZATION 21, 32, 36, 68, 99,
 108, 119, 122, 153, 167, 177,
 186, 192, 197, 242, 259, 274,
 276, 342, 348, 369, 379, 433,
 435, 477, 532, 543, 562, 585,
 599, 614, 616, 633, 654, 655,
 668, 669, 688, 712, 740, 753
 VALUES 453
 VALVES 59
 VANPOOLS 107, 169, 263, 268, 269,
 344, 358, 743, 770
 VANS 109, 158, 197, 229, 268, 285,
 379, 415, 421, 499, 553, 775
 VAPOR GENERATORS 487
 VARIABLE DISPLACEMENT ENGINES 498
 VEGETABLES 76
 VEHICLE MILES TRAVELED 67, 110,
 117, 181, 199, 223, 260, 262,
 265, 266, 280, 317, 318, 375,
 408, 430, 433, 489, 494, 502,
 510, 542, 576, 577, 690, 691,
 695, 701, 726, 727, 735, 760,
 769, 772
 VEHICLE PARKING 87, 282, 297, 304,
 344, 546
 VEHICLE REGISTRATIONS 27, 75, 108,
 225, 230, 260, 262, 265, 297,
 322, 341, 357, 379, 391, 430,
 431, 433, 558, 576, 577, 624,
 688, 692, 715, 744, 750, 760
 VEHICLE TRIPS 60, 64, 65, 204,
 205, 271, 273, 280, 282, 295,
 311, 317, 318, 337, 377, 494,
 522, 529, 578, 603, 605, 613,
 689, 712, 723, 726, 742, 757, 772
 VEHICLES 4, 16, 141, 165, 177,
 212, 225, 230, 256, 260, 314,
 322, 339, 342, 378, 386, 431,
 514, 561, 575, 577, 657, 660,
 667, 688, 692, 697, 740, 743,
 750, 772
 VELOCITY 57, 88, 115, 141, 171,
 194, 203, 204, 205, 282, 301,
 307, 308, 335, 409, 410, 428,
 448, 483, 544, 552, 554, 580,
 583, 588, 596, 682, 692, 712
 VIRGIN ISLANDS 440
 VIRGINIA 440, 527
 VOLUME 117, 403
 WAGES 27, 41
 WALKING 232
 WANKEL ENGINES 768
 WASHINGTON 140, 427
 WASHINGTON DC 250, 280, 282, 624
 WASTE DISPOSAL 185
 WASTE HEAT 22, 212, 369, 616
 WASTE MANAGEMENT 364
 WASTE PROCESSING 193
 WATER 342, 435
 WATER HEATERS 473
 WATER PIPELINES 496
 WATER POLLUTION 452, 651, 681
 WATER QUALITY 440, 660
 WATER TRANSPORTATION 28, 39, 82,
 191, 244, 245, 314, 323, 325,
 376, 430, 456, 464, 513, 525,
 556, 577, 593, 636, 638, 643,
 644, 649, 675, 680
 WATERWAY TRANSPORTATION 28, 82,
 325, 531, 539, 593, 644
 WEAR 175, 380, 583
 WEATHER 376, 676
 WEEKEND TRAVEL 65, 726
 WEIGHT 4, 12, 19, 117, 118, 173,
 183, 209, 284, 307, 308, 324,
 334, 343, 375, 403, 413, 414,
 428, 441, 566, 596, 634, 636,
 643, 676, 677, 697, 711, 735,
 744, 755, 767
 WEST VIRGINIA 527
 WESTERN STATES 429
 WHOLESALE TRADE 45, 637, 641
 WIND 88, 171
 WIND POWER 22
 WISCONSIN 157, 456, 457
 WORK 733
 WORKING CONDITIONS 733
 ZINC-CHLORINE BATTERIES 353

REPORT NUMBER INDEX

REPORT NUMBER INDEX

AD/A--032605 687	BNL--50771 274	CFA--280 124
AD/A--034611 682	BNWL--2006 382	CFA--389 122
AD/A--036579 149	CAC--223 531	CTS--75-16 536
AD/A--049526 104	CED--77-98 246	CTS--76-1 537
AD/A--046953 139	CG--357 679	CTS--76-14 539
AD/A--052907 680	CG-B--003-78 680	CTS--76-3 538
ADA--042272 530	CG-D--7-77 149	DA-OD--4733 402
AGERS--32 76	COH--1011-14 589	DOE-US--0001/2 668
AIO--41/1 13	COH--75-10057 375	DOE/CS--0002/1 652
AIO--41/2 12	COH--75-1054 556	DOE/CS--0018/6 648
AHHHC-TR--78-14 402	CONF-740215 192	DOE/CS--0022 654
ANL--74-XX-5 752	CONF-741013--4 568	DOE/CS--0029 653
ANL--76-12 619	CONF-7505142 66	DOE/CS--0031 263
ANL--76-XX-4 359	CONF-760112--1 360	DOE/CS--0043 666
ANL--76-XX-6 354	CONF-760112--2 155	DOE/CS--0046 655
ANL--76-XX-7 479	CONF-760112--3 127	DOE/EDP--0018 647
ANI--77-18 35	CONF-760165 649	DOE/EDP--0025 651
ANI--77-17 36	CONF-760226 359	DOE/EIA--00036/1 662
ANI--77-35 36	CONF-770530--1 478	DOE/EIA--0014 191
ANI--77-68 36	CONF-771037 656	DOE/EIA--0031/2 239
ANI--77-75 36	CONF-771053 119	DOE/EIA--0036/2 663
ANI--78-21 36	CONF-771175 68	DOE/EIA--0036/2 (EX SUB) 663
ANI--9075 471	CONS--1011-18 610	DOE/EIA--0036/3 664
ANI-K--77-3621-1 201	CONS--1011-20 31	DOE/EIA--0042 591
ANL/PPS--77-1 67	CONS--1011-21 188	DOE/EPA--0002 658
ATR--76(7526)-1 9	CONS--1043-1 546	DOE/ERA--0012 659
BEA-SP--77-029 747	CONS--1044-1 115	DOE/ET--0010/1 (D) 650
BERC/PPS--77/3 571	CONS--1101-1 9	DOE/ET--0014 753
BERC/PPS--77/5 572	CONS--4707-1 234	DOE/NASA--0592-78/1 549
BERC/PPS--78/1 573	CONS--770373 349	DOE/NASA--0595-78/1 412
BERC/PPS--78/2 574	CONS--9416-1 290	DOE/NASA--1011-78/24 615
BERC/RI--77/13 57	CONS--9427-1 551	DOE/NASA--1011-78/25 544
BERC/RI--77/5 226	COO--1258-1 488	DOE/NASA--1011-78/27 588
BERC/RI--77/9 59	COO--2565-4 374	DOE/NASA--3152-78/1 395
BERC/RI--78-2 58	COO--2630-18 154	DOE/US--0001/1 669
BNL--20071 568	COO--2633/3 487	DOT-HS--801933 110
BNL--20427 366	COO--2637-1 17	DOT-HS--802147 698
BNL--21995 570	COO--2690-1 616	DOT-HS--802414 230
BNL--50554 609	COO--2749-18 561	DOT-HS--802483 229
BNL--50633 113	COO--2835-2 389	DOT-HS--802611 696
BNL--50634 112	COO--2835-3 388	DOT-HS--803207 695
BNL--50685 125	COO--4074-3 728	DOT-HS--803295 769
BNL--50703 440	COO--4248-1 494	DOT-HS--803362 697
BNL--50725 62	COO--4250-01 507	DOT-TPI--10-77-14 153
BNL--50745 179	CPG--1-28 645	DOT-TSC-FRA--77-II 308

REPORT NUMBER INDEX

DOT-TSC-OST--73-43 262	DOT/RSPD/DPB--50-77/09 419	PHWA-HP-HS--76 692
DOT-TSC-OST--75-45.I 97	DOT/RSPD/DPB--50-77/10 420	PHWA-HP-HS-S--75 688
DOT-TSC-OST--75-45.II 97	DOT/RSPD/DPB--50-78/7 417	PHWA-VHI-76-W001 103
DOT-TSC-OST--76-37 499	DST--18505-403-77 104	PHWA-PL--77-018 252
DOT-TSC-OST--76-39 176	E--9480 544	PHWA-PL--77013 624
DOT-TSC-OST--76-42 392	E--9677 588	PHWA-PL--77014 624
DOT-TSC-OST--76-43 393	EDP/C--01(77) 195	PHWA-BD--76-138 767
DOT-TSC-OST--76-45 301	EPA--400/9-78-008 713	PRA-OR6D--75-63 236
DOT-TSC-OST--76-51 408	EPA--450/3-74-021 256	PRA-OR6D--75-74.I 307
DOT-TSC-OST--76-60 611	EPA--460/3-74-013-a 363	PRA-OR6D--75-74.II 308
DOT-TSC-OST--77-12 414	EPRI-EA--433 597, 598	GHR--1900 102
DOT-TSC-OST--77-17 16	EPRI-EA--593 121	GHR--1969 309
DOT-TSC-OST--77-26 511	ERDA--76-65 543	GHR--2209 258
DOT-TSC-OST--77-31 361	ERDA--77-14 235	GHR--2216(Revised) 310
DOT-TSC-OST--77-32 509	ERDA--77-61 100	GHR--2255 475
DOT-TSC-OST--77-34 150	ERDA/NASA--1011/77/3 563	GHR--2257 396
DOT-TSC-OST--77-37,I 319	ETA-PR--70 234	GHR--2425 397
DOT-TSC-OST--77-37,II 320	FAA-AVP--76-18 501	GHR--2599 204
DOT-TSC-OST--77-64 51	FAA-AVP--77-17 684	GHR--2621 514
DOT-TSC-OST--77-68 244	FAA-AVP--77-2 384	GHR--2636 10
DOT-TSC-P--24-77-4 706	FAA-AVP--77-20 186	GRC-CR--1-734 89
DOT-TSC-PSPA--76-13 245	FAA-AVP--77-27 686	GS-P--1006-A,B 14
DOT-TSC-UHTA--76-2 595	FAA-AVP--77-28 174	HCP/H--1011-01 466
DOT-TSC-UHTA--77-5 518	FAA-AVP--77-30 707	HCP/H--1011-02 369
DOT-TSC-OST--77-25 510	FAA-AVP--77-32 683	HCP/H--1011-03/1 467
DOT-TST--75-6 296	FAA-AVP--78-7 685	HCP/H--1043-01 546
DOT-TST--76-61 81	FE--1773-25 741	HCP/H--2098-01 436
DOT-TST--76-82 331	FBA/B--77/272 105	HCP/H--2835-01 407
DOT-TST--76-83 601	FBA/B--77/328 105	HCP/H--2923-01 435
DOT-TST--76T-33 770	FBA/B--77/331 107	HCP/H--3924-01 233
DOT-TST--76T-35 774	FBA/D--76/469 213	HCP/H--4250-01 507
DOT-TST--76T-36 774	FBA/D--76/483 484	HCP/H--5812-C1 169
DOT-TST--76T-37 774	FBA/D--77/245 261	HCP/H--60437-01 269
DOT-TST--76T-38 774	FBA/D--77/259 339	HCP/H--60437-03 268
DOT-TST--76T-39 774	FBA/D--77/374 124	HCP/W--1737-01 190
DOT-TST--76T-40 506	FBA/DP--77/001A 473	HCP/W--3683-18 342
DOT-TST--77-2 613	FBA/H--77/337 221	HCP/W--3684-01/1 592
DOT-TST--77-21 56	FBA/H--76/419 218	HCP/W--3684-01/2 592
DOT-TST--77-35 170	FBA/H--76/411 220	HCP/W--4248 273
DOT-TST--77-46 172	FBA/H--76/412 214	HRB-HRR--439 50, 232, 580
DOT-OS--20003 (Amended) 46	FBA/H--76/416 216	HRB-HRR--446 445
DCT/PRA/OR6D/RRD--12 2	FBA/H--76/418 217	HRB-HRR--472 446
DOT/RSPD/DPB--50-77-5 288	FBA/H--76/423 219	HRB-SR--120 449
DOT/RSPD/DPB--50-77-6 200	FBA/H--77/115 215	HRB-SR--122 447
DOT/RSPD/DPB--50-77-7 148	PHWA--R9-76-7 337	HRB-SR--87 448

WFOUR NUMBER INDEX

I--7508P 388	NASA-CR--185228 164	OPNL/Sub--78/14285/1 379
IDA-P--1116 530	NASA-CR--154251 291	ORNL/TH--5391 265
IRT--17200/2-B 181	NASA-CR--2644 481	ORNL/TH--5568 527
IRT--19900/1 180	NASA-TH--73755 610	ORNL/TH--6190 528
ITP--287-B 86	NASA-TH--73769 589	ORNL/TH--6849 576
JACKPA0--77-176-2 210	NASA-TH--73786 31	OST-P5--70292 612
LA--6770 385	NASA-TH--73850 188	OST-TPI--76-02 606
LBL--6301 78	NASA-TH--73934 115	OTA-E--51 631
LBL--7522 79	NASA-TH--78884 615	OTA-T--16 632
LBL--7945 2	NASA-TH--78894 544	P--60-111 680
LHC--770401-B 381	NASA-TH--78934 588	P--6000 429
M.E.--77-1 488	NASA-TH-X--3531 350	P--6062 398
MA--13K(76)-1 639	NASA-TH-X--58188 423	PA--3885-22-1 89
MA-RD--920-75021 556	NASA-TH-X--71916 564	PB--231880 262
MAR--560-20 642	NASA-TH-X--73609 590	PB--232209 256
MC--75-03 711	NASA-TH-X--73672 563	PB--235254 165
MC--76-02 712	NASA-TT-P--16817 749	PB--235349 296
MDC-J--7380 356, 737	NASA-TT-P--16819 47	PB--239850 500
MIT--76-014 505	NASA-TT-P--16820 255	PB--242232 746
MPR/PR--77-13 346	NASA-TT-P--16822 754	PB--244150 307
MSR--76-82 189	NASA-TT-P--16824 512	PB--248601 97
MTR--6808 236	NASA-TT-P--17226 277	PB--250883 542
MTR--7081 72	NASA-TT-P--17227 178	PB--250884 541
N--76-14205 512	NBS-TN--943 540	PB--251063 97
N--76-14378 255	NBSIR--74-595 375	PB--251882 581
N--76-18379 47	NCHRP--43 464	PB--252611 65
N--76-15375 754	NCHRP--48 742	PB--253679 632
N--76-15376 749	NCHRP--89 64	PB--254678 110
N--76-21701 564	NP--21727 276	PB--254854 340
N--76-33625 277	NSP/PRA--7516162/1/6 599	PB--254921 61
N--76-33626 178	NTIS/PS--77/0490 5	PB--255172 331
N--77-18955 423	NTIS/PS--77/0603 368	PB--255857 103
N--77-23072 356	NTIS/PS--77/0684 6	PB--256000 456
N--77-23073 737	NTIS/PS--77/0836 7	PB--258399 337
N--77-27087 164	NTISUB/C--224-004 706	PB--259477 81
N--77-29003 291	ORR/ER--23 357	PB--260667 499
N--77-29607 350	ONB-ON-S--72004 700	PB--261162 484
NAS-NRC--1582 742	ORAU/IEA(N)--77-7 525	PB--261308 392
NASA-CR--135132 290	ORAU/IEA--76-7 15	PB--261771 393
NASA-CR--135380 549	ORNL--5320 577	PB--261805 236
NASA-CR--135381 412	ORNL--5435 266	PB--262513 599
NASA-CR--135368 951	ORNL-NSP-SP--78 483	PB--263020 220
NASA-CR--135382 395	ORNL-Sub--7356-1 317, 318	PB--263156 601
NASA-CR--137923 356	ORNL/EIS--114 314	PB--263351 408
NASA-CR--137924 737	ORNL/Sub--77/1426/1 75	PB--264069 216

REPORT NUMBER INDEX

PB--264092	743	PB--274379	531	SAE--770080	38
PB--264162	301	PB--274380	531	SAP--770081	547
PR--264877	29	PB--274381	531	SAE--770082	738
PR--264878	29	PB--274382	531	SAE--770256	209
PB--264879	29	PB--274384	531	SAE--770313	80
PR--264880	29	PB--274385	531	SAE--770314	275
PB--265086	217	PB--274386	531	SAE--770315	53
PB--265387	698	PB--276646	51	SAE--770316	300
PB--265457	611	PB--279862	769	SAE--770430	299
PB--265772	218	PB--281817	191	SAE--780028	55
PB--265822	214	PB--274383	531	SAE--780032	748
PB--265824	219	PL--89-563	625	SAE--780036	441
PB--266293	518	PL--92-513	627	SAE--780037	404
PB--266576	3	PL--92-574	628	SAE--780085	202
PB--266748	153	PL--94-210	626	SAE--780087	48
PB--267788	624	PL--94-280	629	SAE--780088	553
PB--267789	624	R--1842-WSP/PBA	605	SAE--780100	74
PB--267912	170	R--78-219	667	SAE--780132	284
PB--268060	612	RHR--78-035	549	SAE--780133	403
PB--268151	617	RH--2096	282	SAE--780215	731
PB--268582	540	RH--2101	152	SAE--780216	759
PB--268850	215	RHC-DR--286	541, 542	SAE--780217	120
PB--269492	613	RPA--126	508	SAE--780218	88
PB--269574	770	RTI--2528-760	760	SAE--780219	280
PB--269607	56	SAE--750074	259	SAE--780220	19
PB--269816	261	SAE--750120	96	SAE--780221	736
PB--269835	105	SAE--750929	73	SAE--780237	197
PB--269956	172	SAE--760045	386	SAE--780255	583
PB--270068	339	SAE--760048	205	SAE--780257	175
PB--270259	747	SAE--760073	285	SAE--780258	380
PB--270625	76	SAE--760074	109	SAE--780286	182
PB--270710	712	SAE--760120	763	SAE--780287	335
PB--270721	711	SAE--760123	771	SAE--780288	409
PB--271100	107	SAE--760124	751	SAE--780289	410
PB--271163	105	SAE--760280	34	SAE--780291	338
PB--271235	230	SAE--760591	305	SAE--780297	477
PB--271237	229	SAE--760610	768	SAE--780337	171
PB--271249	246	SAE--760736	352	SAE/SP--78/425	161
PB--271365	767	SAE--760794	405	SAN--1099-1	298
PB--271570	297	SAE--760853	520	SAN--1164-1	381
PB--271816	124	SAE--760854	257	SAN--1213-1	550
PB--272284	357	SAE--760855	413	SAN--1215-1	89
PB--272449	473	SAE--760856	203	SAN--1294-1	248
PB--273277	308	SAE--760929	370	SAN--1295-1	566
PB--273520	688	SAE--770075	534	SAN--1335-1	729

REPORT NUMBER INDEX

SAND--76-0645	163	TRB-TRB--625	304, 355, 439, 480, 565, 584, 777
SAND--77-0001	173	TRB-TRB--626	98, 311, 437, 776
SAND--77-8299	498	TRB-TRB--627	70, 362, 485, 490, 588
SASI--77-401	421	TRB--561	482
SASI--77-521	397	TRRL--698	33
SOL--76-17	45	UCB-ITS-RR--77-11	99
TC--76-035	106	UCB-ITS-SR--77 4	313
TE--4193-76-75	616	UCID--17098	166
TFC--75/001	524	UCID--17316	71
TFC--75/002	545	UCRL--13710(Pt. 1)	184
TIC/EFS/BIB--1	193	UCRL--13710(Pt. 2)	185
TID--26753	44	UCRL--52303	63
TID--26754	44	UCRL--52306/1	167
TID--26755	44	UCRL--52306/2	168
TID--28169	224	UCRL--52313	30
TID--28463	208	UCRL--52333	77
TR--74-008	85	UCRL--77440	155
TR--77-003	84	UNTA-IL--06-0030-76-1	340
TRB-SR--166	128, 129, 142, 390, 401	UNTA-IL--11-0006-74-1	746
TRB-SR--169	141	UNTA-IT--06-0025-74-1	85
TRB-SP--170	144	UNTA-IT--06-0025-76-1	581
TRB-SR--172	143	UNTA-IT--06-0094-77-1	29
TRB-SR--177	145	UNTA-IT--06-0094-77-2	29
TRB-SR--180	569	UNTA-IT--06-0094-77-3	29
TRB-TRB--511	457	UNTA-IT--06-0094-77-4	29
TRB-TRB--526	458	UNTA-IT--06-0104-77-2	743
TRB-TRB--529	452	UNTA-NA--06-0041-77-1	518
TRB-TRB--534	453	UNTA-NA--06-0044-77-2	595
TRB-TRB--546	462	UNTA-NA--09-9003-77-1	600
TRB-TRB--552	463	UNTA-RD-CA--06-008-76-2	291
TRB-TRB--559	460	UNTA-WI--11-0002-75-1	61
TRB-TRB--561	198, 383, 533, 552, 579	USITC--839	715
TRB-TRB--563	461	UVA--529036/CE76/102	172
TRB-TRB--565	69, 87, 140, 196, 243, 283, 306, 388, 387, 761	WC--72-S-2	637
TRB-TRB--569	450	Y--2087	315
TRB-TRB--570	454	Y--2097	316
TRB-TRB--574	455		
TRB-TRB--577	456		
TRB-TRB--583	459		
TRB-TRB--585	231, 385, 427, 438, 495, 557, 623		
TRB-TRB--587	271, 295, 521, 522, 578, 602, 603		
TRB-TRB--591	451		

PERMUTED TITLE INDEX

REPRODUCED TITLE INDEX

of Elevated Guideway Structures for Light Rail Transit (Abridgment) (Discussion)* #Design 000070
 #An Aggregate Supply Model for Urban Bus Transit (Abridgment)* 000311
 Choice Analysis of an Exclusive Bus and Car-Pool Lane (Abridgment)* #Modal- 000437
 to the 1975 New York City Transit-Fare Increase (Abridgment)* #Analysis of User Response 000480
 Alternative Station Spacings for Rapid Transit Lines (Abridgment) (Discussion)* #Evaluation of 000490
 Knowledge to Measure Consumer Transit Attitudes (Abridgment)* #Marketing Approach Using Product Diffusion 000565
 Transportation Facilities: What Can We Learn from Abroad? Urban Development and Planning and Developing 000306
 #Dual Mode Transportation (A Bibliography with Abstracts)* 000005
 and Local Government Planning (A Bibliography with Abstracts)* #Tourism and Vacation Travel: State 000006
 1. National and General Studies (A Bibliography with Abstracts)* #Bus Transportation. Part 000007
 Natural Gas: Marine Transportation (A Bibliography with Abstracts)* # 000368
 #Marketing Plan to Accelerate the Use of Vanpools* 000269
 #The Free Access Concept--A New Challenge to Human Factors* 000352
 #Reevaluation of Ground Access to Airports* 000580
 #The Role of Accessibility in Basic Transportation Choice Behavior* 000102
 #Severities of Transportation Accidents Involving Large Packages* 000173
 #Computer-Based Resource Accounting Model for Automobile Technology Impact 000176
 #Urban Mass Transportation Industry Uniform System of Accounts and Records and Reporting System. Volumes 1-4* 000029
 Volume II. Program #Update to the National Energy Accounts: Energy Flows in the U.S., 1973 and 1974. 000210
 Volume 1: Methodology* #Update to the National Energy Accounts: Energy Flows in the U.S., 1973 and 1974. 000211
 #Directing the Evolution of Urban Land Use to Achieve Improved Transportation System Performance* 000140
 Preliminary Results* #Response of Lead-Acid Batteries to Chopper-Controlled Discharge: 000115
 #Cost and Design Study to Develop Lead-Acid Batteries for Electric Vehicle Propulsion. Volume 1 000201
 #Locomotive Data Acquisition Package: Phase 1. Final Report* 000002
 Hybrid Vehicle Research, Development and Demonstration Act of 1976* and Risk Assessment of the Electric and 000507
 #National Traffic and Motor Vehicle Safety Act of 1966* 000625
 #Railroad Revitalization and Regulatory Reform Act of 1976* 000626
 #Motor Vehicle Information and Cost Savings Act* 000627
 #Noise Control Act of 1972* 000628
 #Federal-Aid Highway Act of 1976 and Highway Safety Act of 1976* 000629
 Act of 1976* 000629
 Hybrid Vehicle Research, Development and Demonstration Act of 1976* of Public Law 94-413: The Electric and 000652
 #February 5, 1976* #Urban Mass Transportation Act of 1964 and Related Laws, as Amended Through 000708
 #Department of Energy Organization Act* 000714
 #Diesel Fuel and Gasoline Conservation Act of 1977* 000720
 #Department of Energy Organization Act* 000721
 #Department of Energy Organization Act* 000722
 #Statewide Travel Forecasting Procedures Including Activity Allocation and Weekend Travel Phase II. 000065
 12 Months Ended December 31, 1976* #Airport Activity Statistics of Certified Route Air Carriers for 000139
 #Forecasts of Computer Airlines Activity* 000174
 Interactions in the Forecasting of General Aviation Activity. Volumes I-IV*the Cost Impact Study to Include 000186
 Documentation. Volume 9. Allocation of Exploratory Activity to Oil and Natural Gas in the PEA Oil and Gas 000218
 Models for Air Freight Demand and Projection of Cargo Activity at U.S. Air Hubs* #Forecasting 000384
 #Forecasts of Aircraft Activity by Altitude, World Region, and Aircraft Type* 000501
 #Current Aviation Statistics: Air Traffic Activity, Fiscal Year 1976* 000687
 A Comparison of Fuel Economy Results from EPA Tests and Actual In-Use Experience, 1974-1977 Model Year Cars* # 000404
 Products: A Guide to Evaluation of #Fuels and Fuel Additives for Highway Vehicles and Their Combustion 000444
 Automatic Vehicle Monitoring Error on Transit Schedule Adherence Monitoring* #Effect of 000098
 Market Share Approach* #The Capitol Stock Adjustment Process and the Demand for Gasoline: A 000117
 Sponsored by the U.S. Energy Research and Development Administration* #Battery Research 000360
 A Report to the Energy Research and Development Administration* Energy Research Needs and Priorities. 000465
 the Presidential Task Force on Reform of Federal Energy Administration Regulations. Volume 1 and Volume 2, 000503
 #Energy Information Administration Annual Report to Congress: 1977. Volume I 000662
 Projections of Energy Supply #1977 Energy Information Administration Annual Report to Congress. Volume II: 000663
 Statistics and Trends of Energy #Energy Information Administration Annual Report to Congress. Volume III: 000664
 Regulations*#Report to Congress by the Federal Aviation Administration on the Energy Efficiency of Agency 000682
 Series on Energy Consumption in Private Transportation: Administrative Summary* #Caltech Seminar 000296
 #Characteristics of the Regular Adult Bicycle Users* 000337
 #Near-Term Advanced Electric Vehicle Batteries* 000111
 #Computer Simulation of an Advanced Hybrid Electric-Powered Vehicle* 000120
 Gas Turbine #Durability Testing at One Atmosphere of Advanced Catalysts and Catalyst Supports for Automotive 000290
 Morphological Systems and Systems Analysis* #Advanced Automotive Power Systems. Part 1: 000305
 Vehicles: Development Plan. Technical Report* #An Advanced Electric Motor Transmission for Electric 000388
 Systems* #Applied Studies in Advanced Boiler Technology for Rankine Cycle Power 000487
 Conservation* #The Advisability of Regulating Electric Vehicles for Energy 000499
 with the Annual Report of the Council of Economic Advisers Transmitted to the Congress January 1978* 000206
 Electric Vehicles from Track Tests* #Tire Aerodynamic Friction and Motor-Driveline Efficiency of 000088
 #Realistic Effects of Winds on the Aerodynamic Resistance of Automobiles* 000171
 #Now Passenger Car Maintenance Affects Fuel Economy and Emissions* 000749
 Highway Vehicle Alternative Fuels Utilization Program (AFUP)* #Program Planning Document: 000657
 Analysis of the World's Merchant Fleets Showing Age, Size, Speed, and Draft by Frequency Grouping as of 000643
 Aviation Administration on the Energy Efficiency of Agency Regulations* #Report to Congress by the Federal 000682
 Abridgment)* #An Aggregate Supply Model for Urban Bus Transit (000311
 Suggestions for Future Research* #Aggregate Auto Travel Forecasting: State of the Art and 000408
 #Engine Developments and Agricultural Equipment Fuel Consumption Trends* 000520
 #Energy Study of Automated Guideway Transit (AGT) Systems* 000293
 and International Operations of the U.S. Supplemental Air Carriers, Calendar 1963 - Fiscal 1975* Domestic 000132
 30, 1977* #Computer Air Carrier Traffic Statistics: 12 Months Ended June 000134
 #Airport Activity Statistics of Certified Route Air Carriers for 12 Months Ended December 31, 1976* 000139
 Requirements for Electric Vehicles Using Lithium-Water Air Batteries* #Lithium 000155
 #The Lithium-Water-Air Conditioning and Heating Systems for Trucks* 000161
 Air Battery for Automotive Propulsion* 000241
 Air Transport 1978* 000351
 for Reducing the Energy Consumption of the Commercial Air Transportation System. Volume I: Technical Analysis* 000356
 Freight Demand and Projection of Cargo Activity at U.S. Air Hubs* #Forecasting Models for Air 000384
 U.S. Air Hubs* #Forecasting Models for Air Air Freight Demand and Projection of Cargo Activity at 000384
 Department of Energy Baseline Automobile Gas- #Cold-Air Travel and Aviation Facilities Planning* 000452
 Air Performance of the Compressor-Drive Turbine of the 000544

PERTINENT TITLE INDEX

Automotive Gas Turbine Engine. I - #Hydrodynamic Potential for Motor Vehicle Fuel Economy Improvement: #Current Aviation Statistics: Airports, August 6, 1976* #Profiles of Scheduled #Bicycle Strategies to Reduce for Reducing the Energy Consumption of the Commercial Calendar Years 1975 and 1976* Domestic and International #Turbojet/Turbofan #Airframe Technology for Energy Efficient Transport of Aircraft Activity by Altitude, World Region, and Aircraft Type* #Forecasts of Aircraft* #Forecasts of Aircraft* #Airframe Technology for Energy Efficient Transport #Airline Financial Performance 1976-1977: A Look at #Airline Equipment Needs and Financing Through 1985* #Airline Service in the 48 Contiguous States, June 1, 1975* #Airline Demand Functions in the North Atlantic and their Pricing Implications* #Airline Activity* #Forecasts of Computer Carriers for 12 Months Ended December 31, 1976* #Reevaluation of Ground Access to #Profiles of International Passengers at U.S. Air Carrier Passenger Traffic for Top 100 U.S. #Method)* #A Handbook for the Estimation of #British #Proceedings: International Symposium on Fuel Economy, and Driveability of Vehicles Fueled with Transportation* #Status of #Department of Energy Position Paper on #Development of A Methodology to Travel Forecasting Procedures Including Activity Evaluation System (PIES) Documentation, Volume 9. of Motor Gasoline from the Mandatory Petroleum Analysis of Selected Federal Actions* #Exemption of Kerojet Fuels from the Mandatory Petroleum of Motor Gasoline from the Mandatory Petroleum of the Exemption of Motor Gasoline from the Mandatory #Fundamental Characterization of the Broad-Cut Option* #Economic Impact of Mass Production of Appendices* #The Outlook for Automotive Fuel Supplies and for #An Evaluation of #Passenger Car Fuel Economy in Short Trip Operation: 1-3* #Current Status of #Energy Savings for Work Trips: Analysis of #Transporting Natural Gas from the Arctic: The Abridgment) (Discussion)* #Evaluation of #The Nickel-Zinc Battery: A Viable #Evaluation of Road and Transit System Requirements for #Program Planning Document: Highway Vehicle #Light Duty Highway Fleets: The Potential for #Urban Transportation for the Automobile in the SCAG Region: An Evaluation of Indexes for Evaluating Environmental Impacts of Highway Electric System* #Long Term Energy Time to Economic Evaluation of Transport Investment a Quantitative Assessment of Passenger Transportation #Forecasts of Aircraft Activity by Electric- #Lithium Requirements for High-Energy Lithium- Mass Transportation Act of 1964 and Related Laws, as #Mandatory Energy Conservation #Report from the American Bus Association. Transportation Service* #Report from the #Car and Locomotive Cyclopedias of #Analysis of State and Local Taxation of #The Energy Crisis and Low-Income Transportation* #Energy Conservation Plans: Guidelines for Travel Demand #Statistics with Application to Highway Traffic and Ownership Based on Lifestyle Factors: First Pass Transportation System. Volume II: Market and Economic Automotive Turbine #Process Demonstration and Cost Energy Consumption, 1947-2000* #Transportation Energy Scenario Existing Scenarios* #Transportation Energy Scenario Handbook for Combining Process and Input-Output Output Analysis* #Energy U.S. Utilities* #Multi-Objective Function #The Energy Crisis and Low-Income Americans: An and Other Automobiles. Volume II: Design Study and #Application of New Energy Air Lubricated Compliant Surface Bearing for an Air Quality and Emissions Panel Report* #Study of Air Traffic Activity, Fiscal Year 1976* Air Carrier Passenger Traffic for Top 100 U.S. Air Pollution* Air Transportation System. Volume II: Market and Air Transportation Energy Efficiency* Aircraft Operating Cost and Performance Report for Aircraft Operating Cost and Performance Trends: Aircraft* Aircraft Type* Aircraft Activity by Altitude, World Region, and Airframe Technology for Energy Efficient Transport #Airline Financial Performance 1976-1977: A Look at #Airline Equipment Needs and Financing Through 1985* #Airline Service in the 48 Contiguous States, June 1, #Airline Demand Functions in the North Atlantic and Airlines Activity* Airport Activity Statistics of Certified Route Air Airports (Quick Approximation Method)* #A Airports* Airports, 1976* Airports, August 6, 1976* #Profiles of Scheduled Airside Delays at Major Airports (Quick Approximation Airways - An Analysis of Efficiency and Cost Levels* Alcohol Fuel Technology - Methanol and Ethanol* Alcohol-Gasoline Blends* #Exhaust Emissions, Alcohol Fuels Utilization Technology for Highway Alcohol Fuels Program Plan* Alcohol Fuels* Allocate Liquid Fossil Fuel Consumption by County* Allocation and Weekend Travel Phase II. Weekend Travel Allocation of Exploratory Activity to Oil and Natural Allocation and Price Regulations. Final Report* Allocation of Natural Gas Under Energy Emergencies: Allocation and Price Regulations* Views Concerning the Allocation and Price Regulations: Supplement to Allocation and Price Regulations* Assessment Alternate Fuel Effects in Continuous Combustion Systems* Alternative Fuels for Transportation: Implications of Alternative Low Emissions Automotive Power Systems and Alternative Vehicle Engines, 1985-2010: Implications Alternative Power Sources for Low-Emission Automobiles* Alternative Fuels and Intercity Trucking* Alternative Fuels Utilization Program* Alternative Automotive Power Systems and Fuels. Volumes Alternative Commuting Patterns for New Jersey* Alternative Systems* Alternative Station Spacings for Rapid Transit Lines (Alternative for Vehicle Powering* Alternative Urban Forms* Alternative Policies for Effecting Intercity Energy Use* Alternative Fuels Utilization Program (AFUP)* Alternative Fuels Utilization Report* Alternative Work Schedules* Alternative Technologies in Fleets Operated by Alternative Automobile Engines* Alternatives: Evolution of Federal Policy* Alternatives for Reducing Automobile Emissions and Fuel Alternatives* #Totality #Alternatives Propulsion: Synthetic Fuel Versus Battery/ Alternatives* #Applications of Value of Travel Alternatives* #A Methodology for Making Altitude, World Region, and Aircraft Type* Aluminum/Iron Sulfide Batteries for Load-Leveling and Assembled Through February 5, 1976* #Urban #Assessments to President Carter's Energy Program* America's Number 1 Passenger Transportation Service* American Bus Association. America's Number 1 Passenger American Trucking Trends. 1976 Statistical Supplement* American Practices* American Railroads* Americans: An Analysis of Impact and Options* Analyses of the National Energy Plan: The Effects on Analyses of Program Measures to Promote Carpools. Analyses* Analyses and Scenarios* #Projections of Automobile Use Analyses* the Energy Consumption of the Commercial Air Analysis of a Mass Production Forging Technique for Analysis of Past and Expected Future Trends in U.S. Analysis Technical Report No. 1: Examination of Four Analysis* #Energy Analysis: Handbook for Combining Process and Input- Analysis of On-Road Electric Vehicle Experiences of 62 Analysis of ERDA Forecast-2, Year-2000 Scenario* Analysis of Impact and Options* Analysis* of Regenerative Braking Systems on Electric Analysis to Consumer Technologies* 000551 000678 000687 000707 000713 000737 000764 000131 000132 000370 000501 000501 000370 000011 000133 000136 000604 000174 000139 000481 000580 000686 000707 000481 000612 000068 000096 000435 000668 000669 000256 000065 000218 000221 000622 000658 000659 000660 000208 000030 000046 000052 000073 000233 000273 000363 000383 000406 000490 000492 000529 000587 000653 000654 000733 000744 000766 000145 000297 000482 000599 000602 000618 000501 000127 000708 000718 000020 000020 000027 000147 000617 000160 000101 000107 000267 000317 000737 000017 000062 000067 000100 000100 000109 000125 000160 000168 000235

PERMUTED TITLE INDEX

Power Systems. Part 1: Morphological System and Systems	Analysis: A New Public Policy Tool*	000251
#Widesharing to Work: A Psychosocial	Analysis*	000305
#Use and Ownership Based on Lifestyle Factors: Scenario	Analysis*	000310
Industry Through 1975*	Analysis*	000318
Turbine Engines and Resulting Fuel Economy in a	Analysis of Marketing Trends in the Automotive Service	000332
Air Transportation System. Volume I: Technical	Analysis of Regenerated Single-Shaft Ceramic Gas-	000350
Jersey*	Analysis* the Energy Consumption of the Commercial	000356
Projects*	Analysis of Alternative Commuting Patterns for New	000383
Work (Energy) Requirements*	Analysis Procedure for Ranking Highway Improvement	000385
Abridgment*	Analysis and Comparison of Railroad and Truck Line-Haul	000428
	Analysis of an Exclusive Bus and Car-Pool Lane (000437
	Analysis of Preference for Mixed-Mode Transit*	000475
Transit-Fare Increase (Abridgment)*	Analysis of User Response to the 1975 New York City	000480
Coal Transportation Costs: An Economic and Engineering	Analysis of Truck, Belt, Rail, Barge and Coal Slurry	000531
Energy Efficiency and Physical Distribution	Analysis of the Incremental Cost and Trade-offs Between	000539
Transportation: Mode/Energy Conservation. Volume II:	Analysis*	000541
Run Determinants of the Demand for Automobiles.	Analysis of the Automobile Market: Modeling the Long-	000558
of the Demand for Automobiles. Volume II: Simulation	Analysis Using the Wharton E.F.A. Automobile Demand	000559
Run Determinants of the Demand for Automobiles.	Analysis of the Automobile Market: Modeling the Long-	000559
Run Determinants of the Demand for Automobiles.	Analysis of the Automobile Market: Modeling the Long-	000560
U.S. Gasoline Demand: An Economic	Analysis of Transportation Planning Effectiveness*	000600
#British Airways - An	Analysis of the EPCA New Car Efficiency Standard*	000607
#Tourist Traffic in Small Historic Cities:	Analysis of Efficiency and Cost Levels*	000612
Railroads*	Analysis, Strategies, and Recommendations*	000613
#Allocation of Natural Gas Under Energy Emergencies:	Analysis of State and Local Taxation of American	000617
I and II*	Analysis of Selected Federal Actions*	000622
	Analysis of Urban Transportation Requirements, Volumes	000624
Size, Speed, and Draft by Frequency	Analysis of the Proposed National Energy Plan*	000631
#Economic and Regulatory	Analysis of the World's Merchant Fleets Showing Age,	000643
#Energy	Analysis of the Proposed Standby Gasoline Rationing Plan	000661
of Fuel Consumption in Rail Transportation. Volume I:	Analysis and the Electric Car*	000763
Energy Conservation Data Book: A Selected,	Analytical Model* and the Environment: Estimation	000307
#Social Organization and Transportation Energy: An	Annotated Bibliography. Edition 2*	000314
Research Methods*	Annotated Bibliography*	000752
Regenerator Design and Reliability Program. Final	Annotated Bibliography on Highway Travel Exposure	000769
#Economic Report of the President Together with the	Annual Report for Period July 1, 1975 to September 30,	000154
Fiscal Year Ending September 30, 1977*	Annual Report of the Council of Economic Advisers	000206
#Sodium-Sulfur Battery System:	Annual Report of the Interstate Commerce Commission,	000323
#1978 Motorcycle Statistical	Annual Report, May 19, 1975 - May 19, 1976*	000374
#Pipeline and Underground Utilities Construction:	Annual*	000433
the Recreation Vehicle	Annual Contractors Issue 1978*	000496
	Annual Historical Review of Production and Shipments of	000517
	Annual: 1976*	000591
Public Law 94-413: The Electric and Hybrid	Annual Survey of Oil and Gas: 1976*	000639
#The First	Annual Report to Congress on the Implementation of	000652
#Energy Information Administration	Annual Report to Congress: 1977. Volume I*	000662
Energy Supply	Annual Report to Congress. Volume II: Projections of	000663
Trends of Energy	Annual Report to Congress. Volume III: Statistics and	000664
#U.S. Department of Transportation. 10th	Annual Report: Fiscal Year 1976*	000675
#Third	Annual FAA Forecast Conference Proceedings*	000685
#Automotive Fuel Economy Program: Second	Annual Report to the Congress*	000695
Report: October, November, and December 1977 and	Annual Summary* #Transportation Safety Information	000706
#Fleet Test of Re-Refined Oil. First	Annual Progress Report*	000728
#The Carter Energy Plan - Some	Answers to the Questions*	000156
#Land Use and the Environment - An	Anthology of Readings*	000162
Alternative Low Emissions Automotive Power Systems and	Appendices* #Economic Impact of Mass Production of	000046
Washington, D.C. Metropolitan System. Volumes I and II	Appendices* Study for a Net Energy Assessment: The	000250
and Coal Products (SIC 29). Volume 2: Technical	Appendices* Efficiency Improvement Targets: Petroleum	000261
Vehicle Use. Volume I: Technical Report. Volume II:	Appendices* Devices and Strategies to Reduce Highway	000302
Administration Regulations. Volume 1 and Volume 2,	Appendices* Task Force on Reform of Federal Energy	000503
Determinants of the Demand for Automobiles. Volume III:	Appendices to the Wharton E.F.A. Automobile Demand Model	000560
Urban Data: Milwaukee - Washington, Notes and Technical	Appendices* I. Urban Data: Atlanta - Miami. Volume II.	000097
Electric and Hybrid Vehicles*	#Applicability of Electric Cars*	000282
#The Hydrogen Energy Economy: A Realistic	#Applicability of Federal Motor Vehicle Standards to	000696
#New	Appraisal of Prospects and Impacts*	000177
Estimation of Airside Delays at Major Airports (Quick	Approaches to Travel Forecasting*	000450
Technology Program: Final Report, Period June 1975-	Approximation Method)* #A Handbook for the	000481
#Composite Flywheel Development (April 1977*	000298
#Transporting Natural Gas from the	April 1 - June 30, 1977)*	000316
#Terminal	Arctic: The Alternative System*	000406
Travel Time Limits in Urban Growth (A Postulated Urban	Area Forecast - 1978-1988*	000684
#Urban	Area Definition)*	000739
#Some Urbanized	Area Results of the 1974 National Transportation Study*	000756
for Helicopter Passenger Service in Major Urban	Area Journey to Work Statistics*	000757
Demographic and Economic Structure of Nonmetropolitan	Areas*	000164
Times Between the Metropolitan Centers of BSA Economic	Areas in the 1970's*	000398
#Development of Lithium/Metal Sulfide Batteries at	Areas: 1950, 1960, and 1970, with Projections for 1980*	000483
#Regulating and Insuring Pre-	Argonne National Laboratory: Summary Report for 1976*	000035
#Electric Propulsion for Road Vehicles. State of the	Arranged Ride Sharing*	000770
and Evaluation of 23 Electric Vehicles for State-of-the-	Art and Problems*	000087
Electric Vehicle R&D Program Review*	Art Assessment*	000188
#Intercity Passenger Demand Models: State-of-the-	Art (SOA) Test and Data Project Review and Near-Term	000194
#Transportation System Management: State-of-the-	Art*	000288
#Aggregate Auto Travel Forecasting: State-of-the-	Art*	000344
#Preliminary Power Train Design for a	Art and Suggestions for Future Research*	000408
#State-of-the-	Art Electric Vehicle*	000412
#State-Of-The-	Art in Passenger Rail-Rolling Stock Equipment*	000420
#State-Of-The-	Art Assessment of Electric and Hybrid Vehicles*	000466

REPORTED TITLE INDEX

Reports, Volume I* #Twelve State-of-the-Art Individual Electric and Hybrid Vehicle Test 000467
 #Preliminary Power Train Design for a State-of-the-Art Electric Vehicle* 000549
 #Rural Passenger Transportation: State-of-the-Art Overview* 000702
 #Light Rail Transit: State-of-the-Art Overview* 000703
 #Asphalt Improvements* 000734
 Compared to #Lean Combustion in Automotive Engines: An Assessment of the Addition of Hydrogen to Gasoline as Regulated Motor Carriers* #A Preliminary Assessment of Empty Miles Traveled by Selected 000009
 of the Hybrid Vehicle Interest and Capability Assessment* Workshops* #Proceedings 000072
 Accounting Model for Automobile Technology Impact Assessment* #Computer-Based Resource 000163
 Evaluation of 23 Electric Vehicles for State-of-the-Art Assessment* #Test and 000176
 Volumes I and II (#Definition Study for a Net Energy Assessment: The Washington, D.C. Metrorail System. 000188
 #Automotive Data Base for Manufacturing Assessment System* 000250
 #State-Of-The-Art Assessment of Electric and Hybrid Vehicles* 000378
 Development and Demonstration Act #Opportunity and Risk Assessment of the Electric and Hybrid Vehicle Research, 000466
 Availability* #Assessment and Forecast of Marine Fuels Price and Assessment of Passenger Transportation Alternatives* 000507
 #A Methodology for Making a Quantitative #Assessment of Community Planning for Mass Transit. 000556
 #Volume I: Summary* #Assessment of the Exemption of Motor Gasoline from the Assistance* 000618
 #Mandatory Allocation and Price #Environmental Assistance* 000632
 #Urban Mass Transportation: Options for Federal #Associated with AVN* 000660
 #A Study of the Costs and Benefits #Association, America's Number 1 Passenger 000434
 Transportation Service* #1977-78 Truck Trailer Manufacturers #Association Directory* 000518
 #Report from the American Bus #Association* Action and Federal Expenditures 000202
 #1977-78 Truck Trailer Manufacturers #Atlanta - Miami, Volume II. Urban Data: Milwaukee - 000621
 Related to the Final System Plan of the U.S. Railway #Atlantic Region* 000758
 Washington, #Urban Data Book, Volume I. Urban Data: #Atlantic and Their Pricing Implications* 000097
 #The Energy Situation in the Mid- #Atlantic and Their Pricing Implications* 000440
 #Airline Demand Functions in the North #Atmosphere of Advanced Catalysts and Catalyst Supports 000604
 for Automotive Gas Turbine #Durability Testing at One #Attitude Surveys, Transit Planning, and Automobile-Use 000290
 Constraints* #Attitudes, Knowledge, and Behavior Regarding Energy 000304
 Conservation* #Consumers' #Attitudes and Energy Conservation* 000213
 #Travelers' #Attitudes* 000377
 #Impact of the Energy Shortage on Travel Patterns and #Attitudes (Abridgment)* #Marketing Approach Using 000552
 Product Diffusion Knowledge to Measure Consumer Transit #An #Attitudinal Model of Carpooling Behavior* 000565
 #An #Attributes* #A Non-Compensatory Model of Transportation 000309
 Behavior Based on Sequential Consideration of #August 6, 1976* #Profiles of Scheduled Air 000514
 Carrier Passenger Traffic for Top 100 U.S. Airports, #Authority Facilities* Ridership, Service, and Electric 000707
 Power Requirements for Metropolitan Transportation #Authorized Mercedes-Benz Dealers* 000508
 #Directory of Diesel Fuel Stations and #Auto Ownership and Mode to Work: A Joint Choice Model* 000411
 #Location, Housing, #Auto Fuel Economy and Performance in Recent Model Years* 000371
 #Concise Description of #Auto Travel Forecasting: State of the Art and 000386
 Suggestions for Future Research* #Materials Are the Key in #Auto Weight Watching* 000808
 #Energy Study of #Automated Guideway Transit (AGT) Systems* 000755
 Adherence Monitoring* #Effect of #Automatic Vehicle Monitoring Error on Transit Schedule 000293
 on a Thermal Energy Storage Stirling Engine #Design Considerations 000098
 #Effect of Energy Shortage and Land Use on #Automobile* 000038
 #Energy Storage Systems for #Automobile Occupancy Rate* 000061
 #Computer-Based Resource Accounting Model for #Automobile Propulsion, Volume 1. Overview and Findings* 000063
 Alternatives for Reducing Automobile #Planning for the #Automobile Drivelines* 000150
 SCAG Region: An Evaluation of Alternatives for Reducing #Automobile Technology Impact Assessment* 000176
 #Attitude Surveys, Transit Planning, and #Automobile in the SCAG Region: An Evaluation of 000297
 #Factors: First Pass Analyses and #Automobile Emissions and Fuel Consumption* in the 000297
 #Factors: Scenario Analysis* #Automobile-Use Constraints* 000304
 #Projections of #Automobile Use and Ownership Based on Lifestyle 000317
 #Projections of #Automobile Use and Ownership Based on Lifestyle 000318
 #The #Automobile Industry in 1976: An International Survey* 000357
 #A Procedure for Estimating #Automobile Fuel Consumption on Congested Urban Roads* 000375
 #Dynamic Models of the U.S. #Automobile Characteristics Historical Data Base* 000414
 Drive Turbine of the Department of Energy Baseline #Automobile Fleet* 000511
 the Demand for Automobiles. Volume I. The Wharton EPA #Automobile Gas-Turbine Engine* of the Compressor- 000544
 of the Demand for Automobiles. #An Analysis of the #Automobile Demand Model* the Long-Run Determinants of 000558
 of the Demand for Automobiles. #An Analysis of the #Automobile Market: Modeling the Long-Run Determinants 000559
 Volume II: Simulation Analysis Using the Wharton E.P.A. #Automobile Market: Modeling the Long-Run Determinants 000559
 Volume III: Appendices to the Wharton E.P.A. #Automobile Demand Model* of the Demand for Automobiles. 000560
 of the Demand for Automobiles. #An Analysis of the #Automobile Market: Modeling the Long-Run Determinants 000560
 Requirements for Electric #The Computer Simulation of #Automobile Use Patterns for Defining Battery 000562
 #The Economic Impact of #Automobile Travel Cost Increases on Households* 000605
 #Alternative #Automobile Engines* 000766
 of Alternative Power Sources for Low-Emission #Automobiles* #An Evaluation 000073
 of Regenerative Braking Systems on Electric and Other #Automobiles, Volume I - Summary* and Feasibility 000167
 of Regenerative Braking Systems on Electric and Other #Automobiles, Volume II: Design Study and Analysis* 000168
 Effects of Winds on the Aerodynamic Resistance of #Automobiles* #Realistic 000171
 Testing and Other Procedures for 1978 and Later Model #Automobiles* to Proposed Fuel Economy and Emissions 000249
 #Gasoline Use by #Automobiles* 000399
 for Development of High-Energy Batteries for Electric #Automobiles* #The Need 000471
 Modeling the Long-Run Determinants of the Demand for #Automobiles, Volume I. The Wharton EPA Automobile 000558
 Modeling the Long-Run Determinants of the Demand for #Automobiles, Volume II: Simulation Analysis Using the 000559
 Modeling the Long-Run Determinants of the Demand for #Automobiles, Volume III: Appendices to the Wharton E.P. 000560
 Hydrogen to Gasoline as Compared to #Lean Combustion in #Automotive Engines: An Assessment of the Addition of 000009
 Analysis of a Mass Production Forging Technique for #Automotive Turbine Wheels: Phase II. Final Report, 000017
 Evaluation of Improvement Concepts* #Upgrading #Automotive Gas Turbine Technology. An Experimental 000034
 #New #Automotive Power Systems* 000044
 Impact of Mass Production of Alternative Low Emissions #Automotive Power Systems and Appendices* #Economic 000046
 Population and Implications to Refining Operations* #Automotive Fuel Requirements with Increasing Diesel Car 000049
 Engines, 1985-2010: Implications for #The Outlook for #Automotive Fuel Supplies and Alternative Vehicle 000052
 Conservation* #Impact of Diagnostic Inspection on #Automotive Fuel Economy and Emissions* 000055
 #Report on the Aspects of #Automotive Fleet Operations on Transportation Energy 000075
 Implementation Planning Process: Selected New #Automotive Engines* #Trial Application of the Technology 000099
 Reliability Program. Final Annual Report for Period #Automotive Gas Turbine Ceramic Regenerator Design and 000154

PERMUTED TITLE INDEX

and Methanol* #Comparative #Automotive News* 000158
 Availability, and Efficiency* #The Lithium-Water-Air Battery for #Automotive Engine Operation When Fueled with Ethanol 000190
 York State* #Automotive Energy Forecasts: Impact of Price, 000199
 of Advanced Catalysts and Catalyst Supports for #Automotive Propulsion* 000241
 Period June 1975-April 1977* #Automotive Energy Use: A Baseline Projection for New 000260
 and Systems Analysis* #Automotive Gas Turbine Engine Combustors, Part 1* 000290
 #Advanced #Automotive Diesel Technology Program: Final Report, 000298
 #An Analysis of Marketing Trends in the #Automotive Power Systems, Part 1: Morphological System 000305
 Gasoline Blends* #Methanol as an #Automotive Service Industry Through 1975* 000332
 #Current Status of Alternative #Automotive Fuel with Special Emphasis on Methanol- 000361
 #Automotive Power Systems and Fuels, Volumes 1-4* 000363
 #Automotive Data Base for Manufacturing Assessment System 000378
 and Power Characteristics of the 1975 Datsun 119-CID #Automotive Engine--Experimental Data* Emissions, 000392
 and Power Characteristics of the 1975 Ford 140-CID #Automotive Engine--Experimental Data* Emissions, 000393
 #Light Duty #Automotive Fuel Economy ... Trends Through 1978* 000441
 #Proceedings of the Fourth International Symposium on #Automotive Propulsion Systems, Volumes I and II* 000478
 #Evaluation of #Automotive Fuel Flowmeters* 000540
 Hydrides* #Automotive Storage of Hydrogen Using Modified Magnesium 000545
 of a 150 kW (200 HP) Stirling Engine for Medium Duty #Automotive Application--A Status Report*The Development 000547
 Air Lubricated Compliant Surface Bearing for an #Automotive Gas Turbine Engine, I - Journal Bearing 000551
 #Characteristics of #Automotive Fleets in the United States: 1966-1977* 000576
 1975)* #Automotive Fuel Economy (Selected SAE Papers 1965 - 000585
 Summary* #Identification of Probable #Automotive Fuels Composition: 1985-2000 and Executive 000592
 Test on Compounding the Internal Combustion Engine for #Automotive Vehicles, Task II, Final Report*Feasibility 000616
 to the Congress* #Automotive Fuel Economy Program: Second Annual Report 000695
 Meeting: Summary Report* #Automotive Fuel Economy Contractors' Coordination 000697
 #Automotive Trade Statistics, 1964-76* 000715
 #Design of the 4-215 D.A. #Automotive Stirling Engine* 000738
 #Ward's #Automotive Yearbook: 1978* 000750
 #Automotive Energy Forecasts: Impact of Price, Availability, and Efficiency* 000199
 #The Influence of Gasoline Price and Availability Upon Recreation Travel Propensity* 000222
 Between Rural Regional Transportation and Energy Availability* #Evaluation of Interaction 000533
 #Assessment and Forecast of Marine Fuels Price and Availability* 000556
 -Coach Class: Traffic, Revenue, Yield, Enplanements and Average On-Flight Trip Length by Fare Category (48 000135
 #Uncertainties in Estimates of Fleet Average Fuel Economy: A Statistical Evaluation* 000509
 to Include Interactions in the Forecasting of General Aviation Activity, Volumes I-IV* the Cost Impact Study 000186
 Study to Include Interactions in the #General Aviation Dynamics: An Extension of the Cost Impact 000186
 Conservation Programs Could Save Millions of Gallons of #Automotive Fuel, Report to the Congress by the 000246
 #Air Travel and #Automotive Facilities Planning* 000452
 #Automotive Turbine Fuels, 1977* 000574
 Agency Regulations* #Report to Congress by the Federal #Automotive Administration on the Energy Efficiency of 000682
 1976* #Current #Automotive Forecasts - Fiscal Years 1978-1989* 000683
 #A Study of the Costs and Benefits Associated with #Automotive Statistics: Air Traffic Activity, Fiscal Year 000687
 #Automotive AVM* 000518
 #Background Material for States* 000043
 #Automotive Programs for Urban Transportation Planning: PLANPAC/ #Automotive BACFAC, General Information Manual* #Computer 000689
 #Balancing Requirements for World Oil and Energy* 000474
 #Economic and Engineering Analysis of Truck, Belt, Rail, #Automotive Barge and Coal Slurry and Pneumatic Pipelines, Volumes 000531
 #Vanpooling Institutional #Automotive Barriers* 000169
 Data Bases, Part I: Digest of Detailed Data #Automotive Base Descriptions, Part II: Detailed Data Base 000071
 Detailed Data Base Descriptions, Part II: Detailed Data #Automotive Base Descriptions* Data Bases, Part I: Digest of 000071
 #End Use Energy Consumption Data #Automotive Base: Series 1 Tables* 000191
 #Automotive Data #Automotive Base for Manufacturing Assessment System* 000378
 #Automobile Characteristics Historical Data #Automotive Base* 000414
 Energy Price Forecasts: Final Report, Volume II - Data #Automotive Base* #Fuel and 000598
 #Impact of Selected Energy Conservation Technologies on #Automotive Baseline Demands* 000179
 #Automotive Energy Use: A #Automotive Baseline Projection for New York State* 000260
 #Transportation: A Review and Evaluation* #Automotive Baseline Energy Consumption Forecasts for 000354
 Compressor-Drive Turbine of the Department of Energy #Automotive Baseline Automobile Gas-Turbine Engine* of the 000544
 Quarterly Progress Report* #Automotive Baseline Gas Turbine Development Program, Eighteenth 000561
 #Results of #Automotive Baseline Tests of the Kordesch Hybrid Passenger Vehicle* 000589
 #Automotive Baseline Tests of the Lucas Limousine* 000590
 Environmental Data Bases. #Automotive Bases Extracted from the National Index of Energy and 000071
 the National Index of Energy and Environmental Data #Automotive Bases, Part I: Digest of Detailed Data Base 000071
 #The Role of Accessibility in #Automotive Basic Transportation Choice Behavior* 000102
 #Automotive Basic Requirements for Urban Cars* 000280
 Report for 1976* #Automotive Batteries at Argonne National Laboratory: Summary 000035
 Vehicle Propulsion, Progress Reports* #Automotive Batteries for Stationary Energy Storage and Electric- 000036
 #Near-Term Advanced Electric Vehicle #Automotive Batteries* 000111
 Results* #Automotive Batteries for Chopper-Controlled Discharge: Preliminary 000115
 #Response of Lead-Acid #Automotive Batteries for Electric Vehicle Propulsion* 000126
 #Design and Testing of Lithium/Iron Sulfide #Automotive Batteries for Load-Leveling and Electric Vehicle 000127
 for High-Energy Lithium-Aluminum/Iron Sulfide #Automotive Batteries* #Lithium Requirements 000155
 for Electric Vehicles Using Lithium-Water-Air #Automotive Batteries for Electrically-Driven Vehicles* 000178
 #Development of #Automotive Batteries for Electric Vehicle Propulsion, Volume 1* 000201
 #Cost and Design Study to Develop Lead-Acid #Automotive Batteries for Electric Automobiles* 000471
 #The Need for Development of High-Energy #Automotive Batteries and Their Impact on Electric Vehicles* 000563
 #New #Automotive Batteries for Electric Vehicles* 000564
 #The Requirements for #Automotive Batteries* #Mathematical 000736
 Model for the Design of Grids for Electric Vehicle #Automotive Battery-Flywheel Hybrid Electric Power System for Near 000166
 Term Application, Volume 1: System Description Volume #Automotive Battery for Automotive Propulsion* 000241
 #The Lithium-Water-Air #Automotive Battery Powered Electric Vehicle Drive* #Development 000272
 of a High Performance and Lightweight Hybrid Flywheel/ #Automotive Battery Research Sponsored by the U.S. Energy Research 000360
 and Development Administration* #Automotive Battery System: Annual Report, May 19, 1975 - May 19, 000374
 1976* #Automotive Battery: A Viable Alternative for Vehicle Powering* 000492
 #Sodium-Sulfur #Automotive Battery Requirements for Electric Cars* #The Computer 000562
 #The Nickel-Zinc #Automotive Battery/Electric System* #Long Term 000599
 Simulation of Automobile Use Patterns for Defining #Automotive Battery and Electrochemical Systems Program Summary: FY 000753
 Energy Alternatives Propulsion: Synthetic Fuel Versus 1977*

PERMUTED TITLE INDEX

Consumption Capability* #An Experimental ICE/ 000771
 Operating Times Between the Metropolitan Centers of 000483
 for an Automotive Gas Turbine Engine. I - Journal 000551
 Journal #Hydrodynamic Air Lubricated Compliant Surface 000551
 Literature Search* #Consumer 000060
 Role of Accessibility in Basic Transportation Choice 000083
 Review* #Consumer 000102
 #Travel 000122
 #Consumers' Attitudes, Knowledge, and 000157
 #Travel 000213
 #Ridesharing 000237
 #An Attitudinal Model of Carpooling 000287
 #Changes in Individual Travel 000309
 #Travel 000341
 #Travel 000445
 #Travel 000453
 * #A Non-Compensatory Model of Transportation 000514
 Costs: An Economic and Engineering Analysis of Truck, 000531
 of the Commercial Air Transportation System. #Cost/ 000356
 of the Commercial Air Transportation System. #Cost/ 000737
 #A Synthesized Engine Oil Providing Fuel Economy 000257
 #A Study of the Costs and 000518
 of Diesel Fuel Stations and Authorized Mercedes- 000411
 #Engine Control Optimization for 000534
 in Transportation Systems and Their Potential for 000546
 #Dual Mode Transportation (A 000006
 Vacation Travel: State and Local Government Planning (A 000006
 Transportation. Part 1. National and General Studies (A 000007
 1976* #Transportation Systems Center 000016
 #Production and Use of Methanol (A 000021
 Fuel Consumption and Travel Demand: A Review and 000123
 #Recreational Vehicles: A Subject 000193
 Center* #Travel Research Bibliography: A 000229
 Travel Reference Center* #Travel Research 000230
 Energy Conservation Data Book: A Selected, Annotated 000253
 #Natural Gas: Marine Transportation (A 000253
 #Electric Vehicles, 1890-1966: A 000314
 Bibliography* #Transportation 000368
 Bibliography* 000397
 #Bibliography on Electric Vehicles: 1967-1976* 000421
 #Bibliography for Transportation Energy Conservation* 000479
 #Bibliography from Highway Safety Literature* 000698
 Bibliography* #Social 000752
 #Bibliography on Highway Travel Exposure Research Methods 000769
 #Characteristics of the Regular Adult 000337
 #The 000454
 #Bicycle Strategies to Reduce Air Pollution* 000713
 Biennial Edition* 000633
 #1975 Business Statistics. Twentieth 000096
 Driveability of Vehicles Fueled with Alcohol-Gasoline 000361
 Fuel with Special Emphasis on Methanol-Gasoline 000436
 #Denaturants for Ethanol/Gasoline 000620
 A Report of an Informal Transportation Research 000141
 #State 000391
 #Boating Statistics: 1977* 000679
 #Boating Surveys#Recreational Boating in the Continental 000680
 Boating in the Continental United States in 1973 and 000680
 Boiler Technology for Rankine Cycle Power Systems* 000487
 Book, 1977-78 Edition* 000023
 Urban Data: Milwaukee - Washington, Notes #Urban Data 000097
 #Regional Transportation Energy Conservation Data 000266
 #Transportation Energy Conservation Data 000314
 Energy Use: 1973 and 1975 National Surveys, Code 000473
 #Transportation Energy Conservation Data 000577
 #Trinc's Blue 000620
 Effect of Oil and Coolant Temperatures on Diesel Engine 000080
 of the Effectiveness and Feasibility of Regenerative 000167
 of the Effectiveness and Feasibility of Regenerative 000168
 Improvement of Electric Vehicles by Regenerative 000338
 Braking* #The Efficiency 000207
 #The United States Budget in 000674
 U.S. Dept. of Transportation Fiscal Year 1979 Budget in 000612
 Levels* #Brief* 000402
 Volume 2: Ceramic Turbine Rotar Technology* #Alternative 000030
 Fuels for Transportation: Implications of the 000207
 #The United States 000674
 #U.S. Dept. of Transportation Fiscal Year 1979 000148
 #Intercity Rail Patronage in the NYC - 000419
 #Track Data Characteristics for New York City - 000751
 #A Purpose- 000637
 #1972 000638
 Census of Wholesale Trade. Subject Series: Petroleum 000007
 on Vessels Engaged in #United States Foreign Trade: 000020
 Studies (A Bibliography with Abstracts)* #Report from the American 000153
 Transportation Service* #Trends in 000311
 #An Aggregate Supply Model for Urban 000355
 #Modal-Choice Analysis of an Exclusive 000437
 #Regional 000462
 Battery-Electric Hybrid with Low Emissions and Low Fuel 000771
 BEA Economic Areas: 1950, 1960, and 1970, with 000483
 Bearing Performance* Compliant Surface Bearing 000551
 Bearing for an Automotive Gas Turbine Engine. I - 000551
 Behavior of Car Owners During the Gasoline Shortage* 000060
 Behavior Toward Fuel-Efficient Vehicles: Report of the 000083
 Behavior* #The 000102
 Behavior Toward Fuel Efficient Vehicles: Literature 000122
 Behavior Under Increases in Gasoline Prices* 000157
 Behavior Regarding Energy Conservation* 000213
 Behavior - A Synthesized Theory* 000237
 Behavior: A Review of Recent Findings* 000287
 Behavior* 000309
 Behavior During the Energy Crisis, 1973-74* 000341
 Behavior* 000445
 Behavior and Values* 000453
 Behavior Based on Sequential Consideration of Attributes 000514
 Belt, Rail, Barge and Coal Slurry and Pneumatic 000531
 Benefit Tradeoffs for Reducing the Energy Consumption 000356
 Benefit Tradeoffs for Reducing the Energy Consumption 000737
 Benefits* 000257
 Benefits Associated with AVH* 000518
 Best Dealers* #Directory 000411
 Best Fuel Economy with Emission Constraints* 000534
 Bias Toward Vehicles of Particular Characteristics* 000546
 Bibliography with Abstracts)* 000006
 Bibliography with Abstracts)* #Tourism and 000006
 Bibliography with Abstracts)* #Bus 000007
 Bibliography of Technical Reports: July 1970 - December 000016
 Bibliography 1960-1977)* 000021
 Bibliography* #Price Elasticity Estimates for Transport 000123
 Bibliography Energy Extension Service* 000193
 Bibliography from Highway Safety Literature* 000229
 Bibliography from Highway Safety Literature* 000230
 Bibliography of the Holdings of the Travel Reference 000253
 Bibliography: A Bibliography of the Holdings of the 000253
 Bibliography. Edition 2* #Transportation 000314
 Bibliography with Abstracts)* 000368
 Bibliography* 000397
 #Bibliography on Electric Vehicles: 1967-1976* 000421
 #Bibliography for Transportation Energy Conservation* 000479
 #Bibliography from Highway Safety Literature* 000698
 Bibliography* #Social 000752
 #Bibliography on Highway Travel Exposure Research Methods 000769
 #Bicycle User* 000337
 Bicycle as a Transportation Mode* 000454
 Bicycle Strategies to Reduce Air Pollution* 000713
 Biennial Edition* 000633
 Blends* #Exhaust Emissions, Fuel Economy, and 000096
 Blends* #Methanol as an Automotive 000361
 Blends* 000436
 Blue Book of the Trucking Industry: 1977 Edition* 000620
 Board Workshop* Improved Motor Vehicle Efficiency. 000141
 Boat Registration 1967 - 1975* 000391
 #Boating Statistics: 1977* 000679
 #Boating Surveys#Recreational Boating in the Continental 000680
 Boating in the Continental United States in 1973 and 000680
 Boiler Technology for Rankine Cycle Power Systems* 000487
 Book, 1977-78 Edition* 000023
 Book. Volume I. Urban Data: Atlanta - Miami. Volume II. 000097
 Book. Edition 1* 000266
 Book: A Selected, Annotated Bibliography. Edition 2* 000314
 Book and Processing Guide* #Lifestyles and Household 000473
 Book: Edition 2* 000577
 Book of the Trucking Industry: 1977 Edition* 000620
 Brake Specific Fuel Consumption* #A Study of the 000080
 Braking Systems on Electric and Other Automobiles. 000167
 Braking Systems on Electric and Other Automobiles. 000168
 Braking* #The Efficiency 000338
 Brief - Fiscal Year 1978* 000207
 Brief* # 000674
 #British Airways - An Analysis of Efficiency and Cost 000612
 Brittle Materials Design, High Temperature Gas Turbine. 000402
 Broad-Cut Option* #Alternative 000030
 Budget in Brief - Fiscal Year 1978* 000207
 Budget in Brief* 000674
 Buffalo Corridor: Models and Forecasts. Volume III* 000148
 Buffalo Corridor* 000419
 Built Electric Taxi* 000751
 Bulk Stations and Terminals* #1972 000637
 Bunker Fuels. Oil and Coal Laden in the United States 000638
 Bus Transportation. Part 1. National and General 000007
 Bus Association. America's Number 1 Passenger 000020
 Bus Transit Operations: 1960-1974* 000153
 Bus Transit (Abridgment)* 000311
 Bus Passenger Service-Time Distributions* 000355
 Bus and Car-Pool Lane (Abridgment)* 000437
 Bus Transportation* 000462

PERMUTED TITLE INDEX

Drag Related Flow Field Characteristics of Trucks and Buses* #Mini-bus Profile* 000705
 #Where Express Buses* #The 000396
 #1975 Buses Work* 000776
 #Electric and Hybrid Vehicle Program: Small Business Statistics, Twentieth Biennial Edition* 000633
 #Voluntary Business Planning Grants* 000646
 Mileage Label and 1976 Gas Mileage Guide for New Car Business Energy Conservation Program: Progress Report 000648
 Study for a Wet Energy Assessment: The Washington, D. Buyers, Volume I: Executive Summary* of the FEA/EPA Gas 000003
 #Aircraft Operating Cost and Performance Report for C. Metrorail System, Volumes I and II (Appendices)* 000250
 Operations of the U.S. Supplemental Air Carriers, Calendar Years 1975 and 1976* 000131
 #Waterborne Commerce of the United States: Calendar 1963 - Fiscal 1975* Domestic and International 000132
 Transportation: Administrative Summary* Calendar Year 1976, Parts 1-5* 000644
 #Motor Vehicle Factory Sales from Plants in U.S. & Caltech Seminar Series on Energy Consumption in Private 000296
 Nonmetropolitan Patterns, 1965-75* Canada* 000432
 #Per Capita Income: Regional and Metropolitan- 000238
 UMTA Rail Modernization Program. The Distribution of Capital Grant Funds for Rail Rehabilitation and 000710
 Gasoline: A Market Share Approach* #The Capitol Stock Adjustment Process and the Demand for 000117
 Gas Mileage Label and 1976 Gas Mileage Guide for New Car Buyers, Volume I: Executive Summary* of the FEA/EPA 000003
 #Automotive Fuel Requirements with Increasing Diesel Car Population and Implications for Refining Operations* 000049
 #Potential Passenger Car Demand for Diesel Fuel and Refining Implications* 000053
 #Behavior of Car Owners During the Gasoline Shortage* 000060
 Fuels Utilization Program* #Passenger Car and Locomotive Cyclopedias of American Practices* 000147
 a Gasoline Engine into a Diesel Engine for Passenger Car Fuel Economy in Short Trip Operation: Alternative 000273
 #An Overall Design Approach to Improving Passenger Car Service* #Considerations in Redesigning 000275
 #A Low NO(x) Lightweight Car Technology for Demonstration and Development* 000278
 for the Year Ended December 31, 1975. Part 4: Private Car Fuel Economy* 000284
 Turbine #engines and Resulting Fuel Economy in a Compact Car Diesel Engine* 000299
 #Development of a System of Comparable Car Lines* #Transport Statistics in the United States 000328
 #Optimizing Engine and Car* #Analysis of Regenerated Single-Shaft Ceramic Gas- 000350
 #Modal-Choice Analysis of an Exclusive Bus and Car Classification Using Interior Volume: A 1978 Up-Date 000403
 Progress Report for Period May 1, 1977 - #Passenger Car Classes for Fuel Economy Labeling* 000405
 Gasoline Demand: An Economic Analysis of the EPCA New Car Design for Fuel Economy and Emissions* 000413
 #The Consumer's Electric Car-Pool Lane (Abridgment)* 000437
 #How Passenger Car Fuel Economy in Short Trip Operation. Technical 000494
 #Energy Analysis and the Electric Car Efficiency Standard* #U.S. 000607
 Car* 000745
 Car Maintenance Affects Fuel Economy and Emissions* 000748
 Car* 000763
 Car and Driver* 000775
 Cargo Activity at U.S. Air Hubs* #Forecasting 000394
 Carpooling Behavior* 000309
 Carpools, Vanpools, and Public Transportation* for 000107
 Carrier Statistical Summary* 000026
 1977* #Commuter Air Carrier Traffic Statistics: 12 Months Ended June 30, 000134
 1976 and 1975* #Trunkline Carrier Domestic Passenger Enplanements: Fiscal Years 000138
 August 6, 1976* #Profiles of Scheduled Air Carrier Passenger Traffic for Top 100 U.S. Airports, 000707
 of Empty Miles Traveled by Selected Regulated Motor Carriers* #A Preliminary Assessment 000072
 #Potential Fuel Conservation Measures by Motor Carriers in the Intercity Freight Market, Volumes I and 000124
 #International Operations of the U.S. Supplemental Air Carriers, Calendar 1963 - Fiscal 1975* Domestic and 000132
 Enplanements and Average On-Flight Trip Length #Truck Carriers--Coach Class: Traffic, Revenue, Yield, 000135
 1975* #Local Service Carriers Passenger Enplanements: Fiscal Years 1976 and 000137
 #Airport Activity Statistics of Certified Route Air Carriers for 12 Months Ended December 31, 1976* 000139
 #Freight Commodity Statistics: Motor Carriers of Property, Year Ended December 31, 1974* 000324
 States for the Year Ended December 31, 1975. Part 5: Carriers by Water* #Transport Statistics in the United 000325
 for the Year Ended December 31, 1975. Part 2: Motor Carriers* #Transport Statistics in the United States 000329
 Impact Statement: Regulations for U.S. Tank Vessels Carrying Oil in Foreign Trade and Foreign Tank Vessels 000681
 Stratified #Fuel Consumption in European Passenger Cars Powered by Gasoline, Diesel, and Direct Injection 000130
 #Energy Impacts of Electric Cars* 000152
 #Diesel Cars in the United States* 000254
 Applications and Energy Impacts of Future Electric Cars* #Urban 000279
 #Basic Requirements for Urban Cars* 000280
 #Impacts of Future Use of Electric Cars in U.S. Cities* 000281
 #Applicability of Electric Cars* 000282
 and Actual In-Use Experience, 1974-1977 Model Year Cars* Comparison of Fuel Economy Results from EPA Tests 000404
 Patterns for Defining Battery Requirements for Electric Cars* #The Computer Simulation of Automobile Use 000562
 #Engines for Tomorrow's Passenger Cars* 000768
 #The Carter Energy Plan - Some Answers to the Questions* 000156
 #Mandatory Energy Conservation Amendments to President Carter's Energy Program* 000716
 Study* Carter's Energy Program* 000718
 #Testing at One Atmosphere of Advanced Catalysts and Catalog of Tabulations: 1974 National Transportation 000701
 #Durability Testing at One Atmosphere of Advanced Catalyst Supports for Automotive Gas Turbine Engine 000290
 #Performance and Emissions of a Catalysts and Catalyst Supports for Automotive Gas 000290
 Prevaporizing Fuel Injection Concepts for a Gas Turbine Catalytic Reactor with Propane, Diesel, and Jet A Fuels* 000031
 Enplanements and Average On-Flight Trip Length by Fare Category (48 State Basis)* Evaluation of Premixing- 000610
 Planning in Rebuilding City Centers: An Examination of Cedar-Riverside in Minneapolis* Use and Transportation 000135
 #Development of Large Size Nickel-Zinc Cells for Electric Vehicles* Traffic, Revenue, Yield, 000087
 for the Commercial Manufacture of Lithium/Iron Sulfide Cells for Load-Leveling* #Cost Estimate 000146
 Transportation Costs of Fossil Fuels Shipped Between Census Regions* #Volumes and 000619
 Survey - Commodity Groups: Part 2, Selected Major #1967 Census of Transportation, Commodity Transportation 000634
 Survey - Traffic Patterns of Small Manufacturing #1967 Census of Transportation, Commodity Transportation 000635
 Bulk Stations and Terminals* #1972 Census of Wholesale Trade, Subject Series: Petroleum 000637
 December 1976* #Transportation Systems Center Bibliography of Technical Reports: July 1970 - 000016
 #A Bibliography of the Holdings of the Travel Reference Center* #Travel Research Bibliography: 000253
 #Conservation: The Centerpiece* 000594
 Land Use and Transportation Planning in Rebuilding City Centers: An Examination of Cedar-Riverside in 000087
 Planning, Part I: Interaction Between Urban Centers as a Potential Process* for Transportation 000319
 of Truck Operating Times Between the Metropolitan Centers of BSA Economic Areas: 1950, 1960, and 1970, 000483
 Families and Persons in the United States and the North Central Region, by Divisions and States (Spring 1976 000640

REPORTED TITLE INDEX

- Final Annual Report for Period #Automotive Gas Turbine in a Compact Car* #Analysis of Regenerated Single-Shaft Design, High Temperature Gas Turbine. Volume 2: December 31, 1976* #Airport Activity Statistics of #The Free Access Concept--A New Continuous Combustion Systems* #Fundamental Vehicles* #A Pictorial Transmission System for Electric Vehicles: Technical #Transmission System for Electric Vehicles* and #Ethyl Fuels* by Gasoline, Diesel, and Direct Injection Stratified System* #System Flow Study: Transportation Characteristics of School #The Role of Accessibility in Basic Transportation #Economic Approach to Value of Time and Transportation #Modal #A Study of the Determinants of Freight Modal Housing, Auto Ownership and Mode to Work: A Joint Household Decisions* #Application of #Modal- (Abridgment)* #Predicting Transporter's #An Experiment in Freight Modal #Response of Lead-Acid Batteries to #The 1978 and Power Characteristics of the 1975 Datsun 119- and Power Characteristics of the 1975 Ford 140- #Impacts of Future Use of Electric Cars in U.S. Social Physics for Modern Societies - The Role of the #Tourist Traffic in Small Historic Land Use and Transportation Planning in Rebuilding #High Performance Electric Commercial Vehicles for #The Townobile Electric #Track Data Characteristics for New York #Analysis of User Response to the 1975 New York Railroad Material Prices and Wage Rates: Railroads of Average On-Flight Trip Length by #Truck Carriers--Coach for the Twelve Months Ended December 31, 1975* #Development of a System of Comparable Car - Commodity Groups: Part 2, Selected Major TCC 3-Digit #Passenger Car Exhaust Emissions* #The 1978 Chrysler Torque Converter Lock-Up Average On-Flight Trip Length by #Truck Carriers-- #Evaluation System (PIES) Documentation. Volume 13. #Energy Efficiency Improvement Targets: Petroleum and #A Study of Potential #Clean Fuel from Engineering Analysis of Truck, Belt, Rail, Barge and Analysis of Truck, Belt, Rail, Barge and #Comparative #United States Foreign Trade: Bunker Fuels. Oil and Household Energy Use: 1973 and 1975 National Surveys, #Performance of Gasoline and Diesel Fuels Produced from the Department of Energy Baseline Automobile Gas- #Energy Analysis: Handbook for Addition of Hydrogen to Gasoline as Compared to #Lean of Alternate Fuel Effects in Continuous Fuels and Fuel Additives for Highway Vehicles and Their #Closed-Loop Control of Internal #Final #Feasibility Test on Combusting the Internal Fuel Injection Concepts for a Gas Turbine Catalytic and Catalyst Supports for Automotive Gas Turbine Engine #The Diesels Are #1976 Inland Waterborne #1977* #91st Annual Report of the Interstate Parts 1-5* #Waterborne #High Performance Electric Tradeoffs for Reducing the Energy Consumption of the for Load-Leveling* #Cost Estimate for the Tradeoffs for Reducing the Energy Consumption of the #91st Annual Report of the Interstate Commerce Ten-Year Supply-Demand Profiles for Mineral and Fuel #Transport of Solid #Demand for Gasoline: Application of #Freight #Urban of Transportation. Commodity Transportation Survey - Part 2, Selected Major #1967 Census of Transportation. Small Manufacturing #1967 Census of Transportation. #Assessment of #Forecasts of of Selected Drive Components for a #Flywheel Powered #The Dollar, Energy and Labor Intensity of an Electric Mile Energy Consumption and Costs for Suburban #Energy Savings for Work Trips: Analysis of Alternative Gas-Turbine Engines and Resulting Fuel Economy in a 1975. Part 1: Railroads, Their Lessors and Proprietary Ceramic Regenerator Design and Reliability Program. 000154
Ceramic Gas-Turbine Engines and Resulting Fuel Economy 000350
Ceramic Turbine Rotar Technology* #Brittle Materials 000402
Certified Route Air Carriers for 12 Months Ended 000139
Challenge to Human Factors* 000352
Characterization of Alternate Fuel Effects in 000208
Characterization of Worldwide Electric and Hybrid 000349
Characterization Study of an Electric Motor- 000389
Characterization Study of an Electric Motor- 000407
Characterization and Research Investigation of Methanol 000488
Charge Engines* in European Passenger Cars Powered 000130
Chart. Phase I: Comprehensive Human Resources Data 000347
Children* #Nationwide Personal Transportation 000690
Choice Behavior* 000102
Choice* 000271
Choice and the Value of Travel Time* 000292
Choice* 000334
Choice Model* #Location, 000371
Choice Theory to Residential Location and Related 000372
Choice Analysis of an Exclusive Bus and Car-Pool Lane (000437
Choice of Mode* 000555
Choice: Delineating the Rail-Truck Interface* 000601
Chopper-Controlled Discharge: Preliminary Results* 000115
Chrysler Torque Converter Lock-Up Clutch* 000074
CID Automotive Engine--Experimental Data* Emissions, 000392
CID Automotive Engine--Experimental Data* Emissions, 000393
Cities* 000281
Cities*Models for Transportation Problems. Part II: The 000320
Cities: Analysis, Strategies, and Recommendations* 000613
City Centers: An Examination of Cedar-Riverside in 000087
City Use* 000285
City Transit System* 000367
City - Buffalo Corridor* 000419
City Transit-Fare Increase (Abridgment)* 000480
Class # #Indexes of 000041
Class: Traffic, Revenue, Yield, Expenditures and 000135
Class I Railroads: Financial and Operating Statistics 000330
Classes for Fuel Economy Labeling* 000405
Classes*Transportation. Commodity Transportation Survey 000634
Classification Using Interior Volume: A 1978 Up-Date* 000403
Clean Fuel from Coal Is Goal of U-Gas Process* 000486
Closed-Loop Control of Internal Combustion Engine 000500
Clutch* 000074
Coach Class: Traffic, Revenue, Yield, Expenditures and 000135
Coal and Electric Utility Conventions for PIES* 000219
Coal Products (SIC 29). Volume 2: Technical Appendices* 000261
Coal Utilization: 1985-2000* 000274
Coal Is Goal of U-Gas Process* 000486
Coal Slurry and Pneumatic Pipelines. Volumes 1-8* and 000531
Coal Transportation Costs: An Economic and Engineering 000531
Coal Laden in the United States on Vessels Engaged in 000638
Code Book and Processing Guide* #Lifestyles and 000473
Coal Synchronism* 000058
Cold-Air Performance of the Compressor-Drive Turbine of 000544
Combining Process and Input-Output Analysis* 000100
Combustion in Automotive Engines: An Assessment of the 000009
Combustion Systems* #Fundamental Characterization 000208
Combustion Products: A Guide to Evaluation of Their 000444
Combustion Engine Exhaust Emissions* 000500
Combustion Engine for Automotive Vehicles, Task II. 000616
Combustor* Evaluation of Preheating-Preheating 000610
Combustors. Part 1*One Atmosphere of Advanced Catalysts 000290
Coming* 000333
Commerce Statistics* 000028
Commerce Commission, Fiscal Year Ending September 30, 000323
Commerce of the United States: Calendar Year 1976. 000644
Commercial Vehicles for City Use* 000285
Commercial Air Transportation System. Volume I: 000356
Commercial #Manufacture of Lithium/Iron Sulfide Cells 000619
Commercial Air Transportation System. Volume II: Market 000737
Commission, Fiscal Year Ending September 30, 1977* 000323
Commodities (1966-75)* #Minerals in the U.S. Economy: 000671
Commodities via Freight Pipeline. Volumes I-V* 000774
Commodity Hierarchy Theory* 000116
Commodity Statistics: Motor Carriers of Property, Year 000324
Commodity Flow* 000449
Commodity Groups: Part 2, Selected Major TCC 3-Digit 000634
Commodity Transportation Survey - Commodity Groups: 000634
Commodity Transportation Survey - Traffic Patterns of 000635
Community Planning for Mass Transit. Volume I: Summary* 000632
Computer Air Carrier Traffic Statistics: 12 Months 000134
Computer Airlines Activity* 000174
Computer Vehicle. Final Report. Phase I* #Evaluation 000381
Computer Railroad* 000489
Computer Service Diesel Trains* #Per Passenger- 000746
Computing Patterns for New Jersey* 000383
Compact Car* of Regenerated Single-Shaft Ceramic 000350
Companies, and Electric Railways* Ended December 31, 000326

PERMUTED TITLE INDEX

with Ethanol and Methanol* §Development of a System of Comparable Car Classes for Fuel Economy Labeling* 000405
 Engineering Analysis of Truck, Belt, Rail, Barge and §Comparative Automotive Engine Operation When Fueled 000190
 Requirements, Volumes I and II* §Comparative Coal Transportation Costs: An Economic and 000531
 §Methodology of §Comparative Costs of Urban Transportation Systems* 000582
 Sequential Consideration of Attributes* §A Non- §Comparative Analysis of Urban Transportation 000624
 Engine. I - Journal §Hydrodynamic Air Lubricated Comparing Modes in Urban Transport* 000416
 §Electrical Compensatory Model of Transportation Behavior Based on 000514
 Final Report. Phase I* §Evaluation of Selected Drive Compliant Surface Bearing for an Automotive Gas Turbine 000551
 1977)* Component Modeling and Sizing for EV Simulation* 000731
 Components for a Flywheel Powered Computer Vehicle. 000381
 Composite Flywheel Development (January 1 - March 31, 000315
 Composite Flywheel Development (April 1 - June 30, 1977) 000316
 Composite Fiber Flywheel for Energy Storage* 000532
 Composition: 1985-2000 and Executive Summary* 000592
 Compounding the Internal Combustion Engine for 000616
 Comprehensive Human Resources Data System. Task 8, 000346
 Comprehensive Human Resources Data System* 000347
 Compressor-Drive Turbine of the Department of Energy 000544
 Comptroller General of the United States* Millions of 000246
 Baseline Automobile Gas- §Cold-Air Performance of the Computer-Based Model for Exploring Land Use and Energy 000112
 Gallons of Aviation Fuel. Report to the Congress by the §Computer Simulation of an Advanced Hybrid Electric- 000120
 Relationships* §Land Use - Energy Simulation Model: A Computer-Based Resource Accounting Model for Automobile 000176
 Powered Vehicle* Technology Impact Assessment* Computer Model: Version 1* 000262
 §Highway Fuel Consumption Computer Simulations of Emissions and Fuel Economy* 000335
 Defining Battery Requirements for Electric Cars* §The Computer Simulation of Automobile Use Patterns for 000562
 Mass Transit Vehicles* §A Computer Program (POWREQ) for Power Requirements of 000595
 §A Stirling Engine Computer Model for Performance* 000615
 PLANPAC/BACKPAC. General Information Manual* §A Digital Computer Programs for Urban Transportation Planning: 000689
 Performance* §The Free Access Computer Program for Simulating Electric Vehicle 000759
 Concept--A New Challenge to Human Factors* 000352
 Concepts* §Upgrading Automotive Gas Turbine 000034
 Concepts for a Gas Turbine Catalytic Combustor* 000610
 Conceptual Problems in Evaluation of Travel Time* 000521
 Concise Description of Auto Fuel Economy and 000386
 Conditioning and Heating Systems for Trucks* 000161
 Conference. Volumes 1 and 2* §Proceedings 000022
 Conference Report: Energy Conservation in 000103
 Conference. Volumes I and II* § 000212
 Conference on the Effects of Energy Constraints on 000418
 Conference Proceedings* 000685
 Conference on the "Effects of Energy Constraints on 000730
 Conference. Volumes I - III* 000740
 Configuration with Electrical Transmission System. 000012
 Configuration with Electrical Transmission System. 000013
 Congested Urban Roads* §A 000375
 Congress Proposing Legislation* 000114
 Congress January 1978* Together with the Annual Report 000206
 Congress by the Comptroller General of the United States 000246
 Congress: An Evaluation of the National Energy Plan* 000247
 Congress on the Implementation of Public Law 94-413: 000652
 Congress: 1977. Volume I* 000662
 Congress. Volume II: Projections of Energy Supply and 000663
 Congress. Volume III: Statistics and Trends of Energy 000664
 Congress by the Federal Aviation Administration on the 000682
 Congress* §Automotive 000695
 Congress, Pursuant to Section 3, Public Law 89-139* 000699
 Congressional Action and Federal Expenditures Related 000758
 Conservation* §Report on the Aspects 000075
 Conservation* 000086
 Conservation* §Fuel Economy 000094
 Conservation in Transportation and Construction* 000103
 Conservation Plans: Guidelines for Travel Demand 000107
 Conservation Measures by Motor Carriers in the 000124
 Conservation Technologies on Baseline Demand* 000179
 Conservation Network (TECNET): A Summary Description* 000180
 Conservation Using TECNET* 000181
 Conservation* §Consumers' 000213
 Conservation Programs Could Save Millions of Gallons of 000246
 Conservation Data Book. Edition 1* 000266
 Conservation Strategies* 000289
 Conservation Data Book: A Selected, Annotated 000314
 Conservation: Tools to Meet the National Objective* 000359
 Conservation: The State of the States* 000365
 Conservation* 000377
 Conservation in the United States: 1979-1985* 000469
 Conservation* 000479
 Conservation. Highlight Report. Volume XXI* 000484
 Conservation* §The 000499
 Conservation* 000513
 Conservation. Volume II: Analysis* 000541
 Conservation. Volume I: Executive Summary* 000542
 Conservation Data Book: Edition 2* 000577
 Conservation and Demand* 000579
 Conservation: The Centerpiece* 000594
 Conservation* 000596
 Conservation Policy Options in the Northeast* 000609
 Conservation, FY 1977* §Environmental 000647
 Conservation Program: Progress Report No. 6* 000648

PERMUTED TITLE INDEX

Program*	#Mandatory Energy Conservation Amendments to President Carter's Energy Conservation Program. Parts 1 and 2*	000718
	#Status of Federal Energy Conservation Act of 1977*	000719
	#Diesel Fuel and Gasoline Consolidation*	000720
	#Institutional Issues in Urban Freight Consolidation*	000106
	#Proceedings of the Workshop on Urban Freight Consolidation*	000689
	the PIPS Oil and Gas Supply Curves to Respond to Non-Constant Prices* Volume 8. Methodology for Enabling Constraints and Potentials*	000217
	#Joint Development: Institutional Constraints*	000196
#Attitude Surveys, Transit Planning, and Automobile-Use Constraints*	000304	
	#Third National Conference on the Effects of Energy Constraints on Transportation Systems*	000418
	Optimization for Best Fuel Economy with Emission Constraints* #Engine Control	000534
#Fourth National Conference on the "Effects of Energy Construction* #Conference	000730	
Report: Energy Conservation in Transportation and Construction* #Optimizing	000103	
the Use of Materials and Energy in Transportation Construction* #Optimizing	000142	
#Multiproject Scheduling for Transportation Construction Programs*	000438	
#Pipeline and Underground Utilities Construction: Annual Contractors Issue 1978*	000496	
#Energy Costs of Heavy Rail Transit Construction*	000762	
of the Use of Self-Supporting Plastic Sandwich Considerations	000512	
Transportation Issues in Consumer Motivation*	000050	
Report of the Literature Search* #Consumer Behavior Toward Fuel-Efficient Vehicles:	000083	
Literature Review* #Consumer Behavior Toward Fuel Efficient Vehicles:	000122	
	Consumer Technologies*	000235
	#Application of New Energy Analysis to Consumer Orientation in Public Transportation Systems*	000439
	#Mass Transit Guidelines Versus a Consumer Transit Attitudes (Abridgment)* #Marketing	003565
Approach Using Product Diffusion Knowledge to Measure 1975 of Families and Persons in the United States and #Consumer Income: Money Income and Poverty Status in	000640	
	Consumer's Electric Car*	000745
#President's Proposed Energy Tax Measures Costly for Consumers*	000032	
Energy Conservation* #Consumers' Attitudes, Knowledge, and Behavior Regarding	000213	
	Consumers' Preferences for Transportation Modes*	000258
#Comparison of Segmentations for Modeling Consumption of Electric and Gasoline Powered Vehicles*	000018	
#A Comparison Between the Primary Energy Modeling Personal Consumption of Goods in the PILOT Energy Model*	000045	
of Past and Expected Future Trends in U.S. Energy Consumption, 1947-2000* #Analysis	000062	
Temperatures on Diesel Engine Brake Specific Fuel Consumption* #A Study of the Effect of Oil and Coolant	000080	
#Price Elasticity Estimates for Transport Fuel Consumption and Travel Demand: A Review and Bibliography	000123	
Gasoline, Diesel, and Direct Injection Stratified Fuel Consumption in European Passenger Cars Powered by	000130	
A Report of an #Strategies for Reducing Gasoline Consumption Through Improved Motor Vehicle Efficiency.	000141	
Highway Transportation Sector* #Fuel Consumption and Engine Horsepower Projections for the	000183	
	Consumption in the Transportation Sector*	000187
	End Use Energy Consumption Data Base: Series 1 Tables*	000191
Driving Schedule Data* #Exhaust Emissions, Fuel Consumption and Traffic: Relations Derived from Urban	000204	
	Gasoline Consumption in Urban Traffic*	000205
	Monthly Florida Motor Gasoline Consumption: January 1968 through December 1976*	000227
of A Methodology to Allocate Liquid Fossil Fuel Consumption by County* #Development	000256	
#An Investigation of the Variability of Gasoline Consumption Computer Model: Version 1*	000262	
	Energy Consumption Among States*	000265
Summary* #Caltech Seminar Series on Energy Consumption, Income, and Housing*	000270	
Alternatives for Reducing Automobile Emissions and Fuel Consumption in Private Transportation: Administrative	000296	
#Railroads and the Environment: Estimation of Fuel Consumption* in the SCAG Region: An Evaluation of	000297	
#Railroads and the Environment: Estimation of Fuel Consumption in Rail Transportation. Volume I:	000307	
Evaluation* #Baseline Energy Consumption in Rail Transportation. Volume II - Freight	000308	
System. #Cost/Benefit Tradeoffs for Reducing the Energy Consumption Forecasts for Transportation: A Review and	000354	
the 1975 Datsun 119-CID Automotive Engine-- #Fuel Consumption of the Commercial Air Transportation	000356	
the 1975 Ford 140-CID Automotive Engine-- #Fuel Consumption on Congested Urban Roads*	000375	
#Engine Developments and Agricultural Equipment Fuel Consumption, Emissions, and Power Characteristics of	000392	
#Evaluation of Maritime Industry Energy Consumption, Emissions, and Power Characteristics of	000393	
#Statistical Report on Urban Energy Consumption Trends*	000520	
s Proposed Gasoline Tax and Gas-Guzzler Tax on Gasoline Consumption Profiles*	000593	
Northeast* #Transportation Energy Consumption*	000606	
System. #Cost/Benefit Tradeoffs for Reducing the Energy Consumption and Conservation Policy Options in the	000609	
Diesel Trains* #Per Passenger-Mile Energy Consumption of the Commercial Air Transportation	000737	
Battery-Electric Hybrid with Low Emissions and Low Fuel Consumption and Costs for Suburban Consumer Service	000746	
#A Profile of Airline Service in the 48 Consumption Capability* #An Experimental ICE/	000771	
Nationwide Boating Survey* #Recreational Boating in the Contiguous States, June 1, 1975*	000136	
of Proposed Rulesmaking and Public Hearing to Establish Continental United States in 1973 and 1976: The	000680	
Pipeline and Underground Utilities Construction: Annual Contingency Gasoline Rationing Plan* #Notice	000657	
	Contractors' View on Optimizing Materials and Energy*	000129
	Contractors Issue 1978*	000496
	Contractors Coordination Meeting*	000656
Transient System Optimization of an Experimental Engine Contractors' Coordination Meeting: Summary Report*	000697	
Emission Constraints* #Closed-Loop Control System Over the Federal Emissions Driving	000182	
	Engine Control of Internal Combustion Engine Exhaust Emissions*	000500
	Noise Control Optimization for Best Fuel Economy with	000534
	Control Act of 1972*	000628
	Response of Lead-Acid Batteries to Chopper- Controlled Discharge: Preliminary Results*	000115
	New Frontiers for Land Development Controls*	000387
Documentation. Volume 13. Coal and Electric Utility Conventions for PIRS* Evaluation System (PIRS)	000219	
#Proceedings of the 12th Intersociety Energy Conversion Engineering Conference. Volumes 1 and 2*	000022	
Gasoline* #Development Studies on Conversion of Methanol and Related Oxygenates to	000741	
	the 1978 Chrysler Torque Converter Lock-Up Clutch*	000074
Fuel Consumption* #A Study of the Effect of Oil and Coolant Temperatures on Diesel Engine Brake Specific	000080	
Developing Transportation Facilities: What Can We Coordination of Urban Development and Planning and	000306	
#Highway Vehicle Systems Contractors' Coordination Meeting*	000656	
for Alternative Technologies in Fleets Operated by Coordination Meeting: Summary Report*	000697	
#Intercity Rail Patronage in the NYC - Buffalo Corporations and State and Local Governments* Potential	000744	
#Track Data Characteristics for New York City - Buffalo Corridor: Models and Forecasts. Volume III*	000148	
for Automotive Turbine #Rail Passenger Statistics in the Northeast Corridor*	000419	
	Corridor: 1974-75*	000693
	Cost Analysis of a Mass Production Forging Technique	000017

PERMUTED TITLE INDEX

Gross Vehicle Weight, Payload, Effective Range, and
 Between Three Travel Modes* #An Individual
 Fruits and Vegetables* #Aircraft Operating
 1976* #Aircraft Operating
 Operations of the #Turbojet/Turbofan Aircraft Operating
 #General Aviation Dynamics: An Extension of the
 for Electric Vehicle Propulsion. Volume 1*
 Consumption of the Commercial Air Transportation
 #The Total Energy
 Physical Distribution #Analysis of the Incremental
 Urban Mass Transit Systems* #Model for
 #The Economic Impact of Automobile Travel
 #British Airways - An Analysis of Efficiency and
 Iron Sulfide Cells for Load-Leveling*
 #Motor Vehicle Information and
 Consumption of the Commercial Air Transportation
 #President's Proposed Energy Tax Measures
 #A Study of the
 #Transit
 Belt, Rail, Barge and #Comparative Coal Transportation
 #Volumes and Transportation
 #Comparative
 #Per Passenger-Mile Energy Consumption and
 #Energy
 to the Congress #Effective Fuel Conservation Programs
 of the President Together with the Annual Report of the
 II: Program Documentation* #Traffic
 P.A.D. Districts and Imports into the United States, by
 to Allocate Liquid Fossil Fuel Consumption by
 and Characteristics of a Prototype Inductive Power
 and Options* #Highway Safety Effects of the Energy
 Changes in Individual Travel Behavior During the Energy
 #The Energy
 #Will There Be a Materials
 #The Energy
 #Regulation of Domestic
 and Fuels. Volumes 1-4*
 States*
 Fiscal Year 1976*
 the Price Sensitivity of the PIES Oil and Gas Supply
 8. Methodology for Enabling the PIES Oil and Gas Supply
 Fuels for Transportation: Implications of the Broad-
 #Driving
 #Driving
 Obtaining Them* #Car and Locomotive
 Economy of the Turbulent Flow System for European #
 #Development of Electric Vehicles in
 Data Project Review and Near-Term Electric Vehicle #
 Study for a Net Energy Assessment: The Washington,
 #Making Federal R and
 D. Part II: Military Fuel Options--Performance and R &
 D Implications* #DoD Energy R &
 Country: #Supply, Demand, and Stocks of All Oils by P.A.
 #Design of the 4-215
 Car Classification Using Interior Volume: A 1978 Up-
 #Emissions, and Power Characteristics of the 1975
 Summary - Final Report on the Operation and Effects of
 Report on the Operation and Effects of Daylight #The
 of Diesel Fuel Stations and Authorized Mercedes-Benz
 Center Bibliography of Technical Reports: July 1970 -
 and Their Operated Mileage in the Several States in a
 of Certified Route Air Carriers for 12 Months Ended
 Motor Gasoline Consumption: January 1968 through
 Statistics: Motor Carriers of Property, Year Ended
 Statistics in the United States for the Year Ended
 Statistics in the United States for the Year Ended
 Statistics in the United States for the Year Ended
 Statistics in the United States for the Year Ended
 and Operating Statistics for the Twelve Months Ended
 and Motor Ships of 1,000 Gross Tons and Over as of
 Age, Size, Speed, and Draft by Frequency Grouping #
 Safety Information Report: October, November, and
 Economic Considerations* #Roadway
 Theory to Residential Location and Related Household
 #The Computer Simulation of Automobile Use Patterns for
 Transmission System. Phase II Final Report: Design
 Washington, D.C. Metrorail System. Volumes I and II (#
 Time Limits in Urban Growth (A Postulated Urban Area
 #A Handbook for the Estimation of Airside
 #An Experiment in Freight Modal Choice)
 the United States Energy Industry, 1975-90--A
 #Econometric Dimensions of Energy
 #Potential Passenger Car
 National Studies* #Energy Supply-
 #State Energy Conservation Plans: Guidelines for Travel
 Cost of Electric Vehicles* #On the Relationship between
 Cost Minimizing Method of Determining Modal Split
 Cost of Operating Refrigerated Trucks for Hauling Fresh
 Cost and Performance Report for Calendar Years 1975 and
 Cost and Performance Trends: Domestic and International
 Cost Impact Study to Include Interactions in the
 Cost and Design Study to Develop Lead-Acid Batteries
 Cost/Benefit Tradeoffs for Reducing the Energy
 Cost of Freight Transport*
 Cost and Trade-offs Between Energy Efficiency and
 Cost-Effective Maintenance of Rail Transit Vehicles in
 Cost Increases on Households*
 Cost Levels*
 Cost Estimate for the Commercial Manufacture of Lithium/
 Cost Savings Act*
 Cost/Benefit Tradeoffs for Reducing the Energy
 Costly for Consumers*
 Costs and Energy Efficiency of a Dual-Mode System*
 Costs and Benefits Associated with AVH*
 Costs During Peak and Off-Peak Hours*
 Costs: An Economic and Engineering Analysis of Truck,
 Costs of Fossil Fuels Shipped Between Census Regions*
 Costs of Urban Transportation Systems*
 Costs for Suburban Computer Service Diesel Trains*
 Costs of Heavy Rail Transit Construction*
 Could Save Millions of Gallons of Aviation Fuel. Report
 Council of Economic Advisers Transmitted to the
 Count Program. Volume I: Design and Development. Volume
 Country: 1977*Supply, Demand, and Stocks of All Oils by
 Country* #Development of a Methodology
 Coupling for Electric Highway Systems* the Performance
 Crisis on U.S. Toll Roads*
 Crisis and Low-Income Americans: An Analysis of Impact
 Crisis, 1973-74*
 Crisis? #
 Crisis: Fact or Fiction*
 Crude Oil Prices*
 Current Status of Alternative Automotive Power Systems
 Current Demographic Change in Regions of the United
 Current Aviation Statistics: Air Traffic Activity,
 Curves* Volume 6. Methodology for Improving
 Curves to Respond to Non-Constant Prices* Volume
 Cut Option* #Alternative
 Cycles for Fuel Economy Testing Summary*
 Cycles for Electric Urban Vehicles and Methods for
 Cyclopedias of American Practices* #Emissions and Fuel
 Cyl Engines* #Emissions and Fuel
 Czechoslovakia*
 D Program Review* #State-of-the-Art (SOA) Test and
 D.C. Metrorail System. Volumes I and II (Appendices)*
 D Useful: A Case Study of the Implementation Process*
 D Implications* #DoD Energy R &
 D. Part II: Military Fuel Options--Performance and R &
 D. Districts and Imports into the United States, by
 D.A. Automotive Stirling Engine*
 Data* #Passenger
 Data: 119-CYD Automotive Engine--Experimental Data*
 Daylight Saving Time* Saving Time Study. Executive
 Daylight Saving Time Study. Executive Summary - Final
 Dealers* #Directory
 December 1976* #Transportation Systems
 December 31, 1974* #Railroads
 December 31, 1976* #Airport Activity Statistics
 December 1976* #Monthly Florida
 December 31, 1974* #Freight Commodity
 December 31, 1975. Part 3: Carriers by Water*#Transport
 December 31, 1975. Part 1: Railroads, Their Lessors and
 December 31, 1975. Part 3: Freight Forwarders*#Transport
 December 31, 1975. Part 4: Private Car Lines*#Transport
 December 31, 1975. Part 2: Motor Carriers* #Transport
 December 31, 1975* #Class I Railroads: Financial
 December 31, 1975*#Fleets of the World: Ocean-going Steam
 December 31, 1976* the World's Merchant Fleets Showing
 Decision 1977 and Annual Summary* #Transportation
 Decision-Making and Implications for Energy Use - Some
 Decisions* #Application of Choice
 Defining Battery Requirements for Electric Cars*
 Definition* Propulsion Configuration with Electrical
 Definition Study for a Net Energy Assessment: The
 Definition)* #The Role of Travel
 Delays at Major Airports (Quick Approximation Method)*
 Delineating the Rail-Truck Interface*
 Demand Elasticities for Gasoline: Another View*
 Demand and Supply of Nonfuel Minerals and Materials for
 Demand and Supply*
 Demand for Diesel Fuel and Refining Implications*
 Demand Integrations to the Year 2000: Global and
 Demand Analyses of Program Measures to Promote
 000019
 000033
 000076
 000131
 000132
 000186
 000201
 000356
 000525
 000539
 000548
 000605
 000612
 000619
 000627
 000737
 000832
 000891
 000918
 000923
 000931
 000970
 000982
 000746
 000762
 000246
 000206
 000735
 000665
 000256
 000079
 000110
 000160
 000341
 000390
 000401
 000717
 000363
 000429
 000687
 000216
 000217
 000030
 000223
 000754
 000147
 000203
 000567
 000194
 000250
 000313
 000530
 000530
 000665
 000738
 000403
 000392
 000189
 000189
 000411
 000016
 000042
 000139
 000227
 000324
 000325
 000326
 000327
 000328
 000328
 000330
 000330
 000642
 000643
 000706
 000128
 000372
 000562
 000012
 000250
 000739
 000481
 000601
 000004
 000014
 000037
 000053
 000054
 000107

PERMUTED TITLE INDEX

Theory*
 #The Capital Stock Adjustment Process and the
 #Methodology for Predicting the
 Estimates for Transport Fuel Consumption and Travel
 #A Study of the
 #Gasoline
 System (PIES) Documentation. Volume 2. PIES Econometric
 #Intercity Passenger
 #Energy Supply and
 #Forecasting Models for Air Freight
 #Travel
 of Empirical Evidence on the Elasticity of Travel
 #Applications of Value of Travel Time to Travel
 #Factors Influencing the
 #Forecasting Freight Flows Using a Disaggregate Freight
 Market: Modeling the Long-Run Determinants of the
 for Automobiles. Volume I. The Wharton EPA Automobile
 Market: Modeling the Long-Run Determinants of the
 Simulation Analysis Using the Wharton E.P.A. Automobile
 Market: Modeling the Long-Run Determinants of the
 Volume III: Appendices to the Wharton E.P.A. Automobile
 #Transportation Energy Conservation and
 #Derivation of Values of Time from Travel
 Pricing Implications*
 #Airline
 #Efficiency Standard*
 #U.S. Gasoline
 Congress. Volume II: Projections of Energy Supply and
 Volume III: Statistics and Trends of Energy Supply,
 Imports into the United States, by Country: #Supply,
 75)* #Minerals in the U.S. Economy: Ten-Year Supply-
 Selected Energy Conservation Technologies on Baseline
 #Projections of 1980 Freight
 Areas in the 1970's*
 #The Changing
 #Current
 Forging Technique for Automotive Turbine
 #Process
 #Vaspooling
 #Electric Car Technology for
 #Urban Goods Movement
 Summary*
 Electric and Hybrid Vehicle Research, Development and
 Electric and Hybrid Vehicle Research, Development and
 #Electric and Hybrid Vehicle
 #Where Transit Works: Urban
 #Economies of Traffic
 Air Performance of the Compressor-Drive Turbine of the
 #Management by Objectives Program of the Florida
 Fiscal Year 1976*
 #U.S.
 #Tire Rolling Resistance - A Speed
 Technologies: Report of Technology #The Need for and
 #U.S.
 Data Base Descriptions. Part II: Detailed Data Base
 Data Bases. Part I: Digest of Detailed Data Base
 Electrical Transmission System. Phase II Final Report:
 Stirling Engine Automobile*
 #Transit (Abridgment) (Discussion)*
 #Electric and Hybrid Vehicle Performance and
 for Electric Vehicle Propulsion*
 Period July #Automotive Gas Turbine Ceramic Regenerator
 Volume 1: System Description Volume 2: System
 Systems on Electric and Other Automobiles. Volume II:
 #Methodology for the
 Electric Vehicle Propulsion. Volume 1*
 #Cost and
 #An Overall
 #Urban Goods Movement Demonstration Project
 Turbine Rotar Technology*
 #Stirling Engine
 #Brittle Materials
 #Preliminary Power Train
 #Optimizing Engine and Car
 #Study
 #Travel*
 Transit Vehicle*
 #The
 #Preliminary Power Train
 #Engineering Know-How in Engine
 #Traffic Count Program. Volume I:
 #Mathematical Model for the
 #Walk Time from Vehicle to Final
 #Developing Freight Origin-
 #A Study of the
 of the Automobile Market: Modeling the Long-Run
 of the Automobile Market: Modeling the Long-Run
 of the Automobile Market: Modeling the Long-Run
 Propulsion. Volume 1*
 #Cost and Design Study to
 #Coordination of Urban Development and Planning and
 Freight Planning*
 #Demand for Gasoline: Application of Commodity Hierarchy
 Demand for Gasoline: A Market Share Approach*
 Demand for New Electricity-Using Goods*
 Demand: A Review and Bibliography* #Price Elasticity
 Demand for Gasoline*
 Demand for Owner Characteristics*
 Demand Model* #Project Independence Evaluation
 Demand Models: State-of-the-Art*
 Demand in the Northeast United States - 1972*
 Demand and Projection of Cargo Activity at U.S. Air Hubs
 Demand Forecasting*
 Demand* #Pricing in Urban Transportation: A Survey
 Demand Estimation*
 Demand for Goods Movement*
 Demand Model*
 Demand for Automobiles. Volume I. The Wharton EPA
 Demand Model* the Long-Run Determinants of the Demand
 Demand for Automobiles. Volume II: Simulation Analysis
 Demand Model* of the Demand for Automobiles. Volume II:
 Demand for Automobiles. Volume III: Appendices to the
 Demand Model* of the Demand for Automobiles.
 Demand*
 Demand Models*
 Demand Functions in the North Atlantic and Their
 Demand: An Economic Analysis of the EPCA New Car
 Demand and Their Impacts. (Also Executive Summary)* to
 Demand, and Prices* Annual Report to Congress.
 Demand, and Stocks of All Oils by P.A.D. Districts and
 Demand Profiles for Mineral and Fuel Commodities (1966-
 Demands* #Impact of
 Demands for Selected Midwestern Railroads*
 Demographic and Economic Structure of Nonmetropolitan
 Demographic Change in Regions of the United States*
 Demonstration and Cost Analysis of a Mass Production
 Demonstration Project*
 Demonstration and Development*
 Demonstration Project Design Phases I and II. Executive
 Demonstration Act of 1976* and Risk Assessment of the
 Demonstration Act of 1976* of Public Law 94-413: The
 Demonstration: 1978*
 Denaturants for Ethanol/Gasoline Blends*
 Densities for Public Transportation*
 Density in the Rail Freight Industry*
 Department of Energy Baseline Automobile Gas-Turbine
 Department of Transportation*
 Department of Energy Position Paper on Alcohol Fuels*
 Department of Transportation. 10th Annual Report:
 Department of Energy Organization Act*
 Department of Energy Organization Act*
 Department of Energy Organization Act*
 Department of Energy Organization Act*
 Dependent Contribution*
 Deployment of Inexhaustible Energy Resource
 Dept. of Transportation Fiscal Year 1979 Budget in Brief
 Derivation of Values of Time from Travel Demand Models*
 Descriptions* Data Bases. Part I: Digest of Detailed
 Descriptions. Part II: Detailed Data Base Descriptions*
 Design Definition* Hybrid Propulsion Configuration with
 Design Considerations on a Thermal Energy Storage
 Design of Elevated Guideway Structures for Light Rail
 Design Goal Determination Study*
 Design and Testing of Lithium/Iron Sulfide Batteries
 Design and Reliability Program. Final Annual Report for
 Design*Electric Power System for Near Term Application.
 Design Study and Analysis* of Regenerative Braking
 Design of Urban Transportation Interface Facilities*
 Design Study to Develop Lead-Acid Batteries for
 Design Approach to Improving Passenger Car Fuel Economy*
 Design Phases I and II. Executive Summary*
 Design Manual*
 Design, High Temperature Gas Turbine. Volume 2: Ceramic
 Design for a State-of-the-Art Electric Vehicle*
 Design for Fuel Economy and Emissions*
 Design for a Method of Projecting Vehicle Miles of
 Design and Development of a Hybrid-Electric Urban
 Design for a State-of-the-Art Electric Vehicle*
 Design. Part 24: Economy in Engine Performance*
 Design and Development. Volume II: Program Documentation
 Design of Grids for Electric Vehicle Batteries*
 Design of the 4-215 D.A. Automotive Stirling Engine*
 Destination*
 Destination Data for Use in Freight Planning*
 Determinants of Freight Modal Choice*
 Determinants of the Demand for Automobiles. Volume I.
 Determinants of the Demand for Automobiles. Volume II:
 Determinants of the Demand for Automobiles. Volume III:
 Develop Lead-Acid Batteries for Electric Vehicle
 Developing Transportation Facilities: What Can We Learn
 Developing Freight Origin-Destination Data for Use in

PERMUTED TITLE INDEX

#Survey of Driver Aid Devices for Improved Fuel Economy* 000301
 #Evaluation Methodology for Near Term Devices and Strategies to Reduce Highway Vehicle Use. 000302
 #Impact of Diagnostic Inspection on Automotive Fuel Economy and Diesel, and Jet A Fuels* #Performance 000055
 #Automotive Fuel Requirements with Increasing Diesel Car Population and Implications to Refining 000031
 #Potential Passenger Car Demand for Diesel Fuel and Refining Implications* 000049
 #Performance of Gasoline and Diesel Fuels Produced from Coed Syncrude* 000053
 Study of the Effect of Oil and Coolant Temperatures on Diesel Engine Brake Specific Fuel Consumption* #A 000080
 in European Passenger Cars Powered by Gasoline, Diesel, and Direct Injection Stratified Charge Engines* 000130
 #Gas Emissions and Fuel Economy of the Light Duty Diesel Truck* 000209
 #Diesel Cars in the United States* 000254
 #Considerations in Redesigning a Gasoline Engine into a Diesel Engine for Passenger Car Service* 000275
 1975-April 1977* #Automotive Diesel Technology Program: Final Report, Period June 000298
 #A Low NO(X) Lightweight Car Diesel Engine* 000299
 #Directory of Diesel Fuel Properties and Engine Performance* 000300
 #Performance Characteristics of a Diesel Fuel Stations and Authorized Mercedes-Benz 000411
 Fuel Supplement (#Performance Characteristics of a Diesel Engine Using Low- and Medium-Energy Gases as a 000423
 #Diesel Fuel Oils, 1977* 000572
 #Diesel Fuel and Gasoline Conservation Act of 1977* 000720
 Consumption and Costs for Suburban Computer Service Diesel Trains* #Per Passenger-Mile Energy 000746
 #The Diesels Are Coming* 000333
 Attitudes (Abridgment) #Marketing Approach Using Product Diffusion Knowledge to Measure Consumer Transit 000565
 Index of Energy and Environmental Data Bases. Part I: Digest of Detailed Data Base Descriptions. Part II: 000071
 Survey - Commodity Groups: Part 2, Selected Major TCC 3-Digit Classes* Transportation. Commodity Transportation 000634
 Vehicle Performance* #A Digital Computer Program for Simulating Electric 000759
 #Econometric Dimensions of Energy Demand and Supply* 000037
 Improved Transportation System Performance* #Directing the Evolution of Urban Land Use to Achieve 000140
 #A New Direction for the Highway Program* 000231
 Resources* #TRISNET: Directory to Transportation Research Information 000331
 Mercedes-Benz Dealers* #Directory of Diesel Fuel Stations and Authorized 000411
 #1977-78 Truck Trailer Manufacturers Association Directory* 000621
 #Forecasting Freight Flows Using a Disaggregate Freight Demand Model* 000537
 #Response of Lead-Acid Batteries to Chopper-Controlled Discharge: Preliminary Results* 000115
 #A Variable Displacement Spark-Ignition Engine* 000498
 and Trade-offs Between Energy Efficiency and Physical Distribution Effectiveness in Intercity Freight Markets* 000539
 #The UMTA Rail Modernization Program. The Distribution of Capital Grant Funds for Rail 000710
 and Application of the Phase I Comprehensive Human #The Distributional Impact of Energy Policies: Development 000346
 #Bus Passenger Service-Time Distributions* 000355
 #The Effects of Transportation Systems on the Spatial Distributions of Population and Jobs* 000773
 #Supply, Demand, and Stocks of All Oils by P.A.D. Districts and Imports into the United States, by 000665
 in the United States and the North Central Region, and Divisions and States (Spring 1976 Survey of Income and 000640
 Program (ATTP)* #Program Planning Document: Highway Vehicle Alternative Fuels Utilization 000653
 Flows in the U.S., 1973 and 1974. Volume II. Program Documentation* to the National Energy Accounts: Energy 000210
 #Project Independence Evaluation System (PIES) Documentation. Volume 2. PIES Econometric Demand Model* 000214
 #Project Independence Evaluation System (PIES) Documentation. Volume 14. A User's Guide* 000215
 Price #Project Independence Evaluation System (PIES) Documentation. Volume 6. Methodology for Improving the 000216
 PIPS Oil #Project Independence Evaluation System (PIES) Documentation. Volume 8. Methodology for Enabling the 000217
 Activity #Project Independence Evaluation System (PIES) Documentation. Volume 9. Allocation of Exploratory 000218
 #Project Independence Evaluation System (PIES) Documentation. Volume 13. Coal and Electric Utility 000219
 Project #Project Independence Evaluation System (PIES) Documentation. Volume I: The Integrating Model of the 000220
 Volume I: Design and Development. Volume II: Program Documentation* #Traffic Count Program. 000735
 Performance and R & D Implications* #DoD Energy R & D. Part II: Military Fuel Options-- 000530
 #DOE Proposes Emergency Gasoline Rationing Plan* 000667
 Computer Railroad* #The Dollar, Energy and Labor Intensity of an Electric 000489
 Aircraft Operating Cost and Performance Trends: Domestic and International Operations of the U.S. 000132
 1975* #Trunkline Carrier Domestic Passenger Enplanements: Fiscal Years 1976 and 000138
 Foreign Trade: 1970* #Domestic and International Transportation of U.S. 000636
 #Regulation of Domestic Crude Oil Prices* 000717
 World's Merchant Fleets Showing Age, Size, Speed, and Draft by Frequency Grouping as of December 31, 1976*the 000643
 Buses* #The Drag Related Flow Field Characteristics of Trucks and 000396
 #The Hybrid Flywheel/Battery Powered Electric Vehicle Drive*Development of a High Performance and Lightweight 000272
 Vehicle. Final Report. Phase I* #Evaluation of Selected Drive Components for a Flywheel Powered Computer 000381
 Automobile Gas- #Cold-Air Performance of the Compressor Drive Turbine of the Department of Energy Baseline 000544
 Blends* #Exhaust Emissions, Fuel Economy, and Driveability of Vehicles Fueled with Alcohol-Gasoline 000096
 Tests* #Tire Aerodynamic Friction and Motor Driveline Efficiency of Electric Vehicles from Track 000088
 #Automobile Drivelines* 000150
 #Development of Batteries for Electrically-Driven Vehicles* 000178
 #Survey of Driver Aid Devices for Improved Fuel Economy* 000301
 #Car and Driver Aid and Education Test Project. Final Report* 000666
 #Driving for Fuel Economy* 000775
 #Fuel Economy through Teamwork: Driving Schedule*System Optimization of an Experimental 000092
 Engine Control System Over the Federal Emissions Driving Schedule Data* #Exhaust Emissions, Fuel 000182
 Consumption and Traffic: Relations Derived from Urban Driving Cycles for Fuel Economy Testing Summary* 000204
 #Driving and Energy Conservation. Highlight Report. 000223
 #Driving Cycles for Electric Urban Vehicles and Methods 000484
 #Dual Mode Transportation (A Bibliography with Abstracts) 000754
 #Dual Mode Electric Transportation System* 000005
 #Dual-Mode Transportation* 000078
 #Dual-Mode System* 000144
 #Durability Testing at One Atmosphere of Advanced 000291
 Duty Diesel Truck* 000290
 #Duty Automotive Fuel Economy ... Trends Through 1978* 000209
 #Duty Automotive Application--A Status Report* 000441
 #Duty Highway Fleets: The Potential for Alternative 000547
 Dynamic Programming* 000744
 #Dynamic Models of the U.S. Automobile Fleet* 000495
 Dynamics: An Extension of the Cost Impact Study to 000511
 000186

*P*RO*T*E*D T*IT*LE I*ND*E*X

*missions and Fuel Economy for	*The Effect of	Dynamometer Inertia Increment and Power Setting on	000711
Volume II: Simulation Analysis Using the Wharton	E.P.A. Automobile Demand Model*	E.P.A. Automobile Demand Model*	000559
or Automobiles. Volume III: Appendices to the Wharton	E.P.A. Automobile Demand Model	of the Demand	000560
*Airline Financial Performance 1976-1977: A Look at	*Employment and	Earnings and Needs*	000011
			000264
*valuation System (PIES) Documentation, Volume 2. PIES	*Econometric Dimensions of Energy Demand and Supply*		000037
	Econometric Demand Model*	*Project Independence	000214
	Economic Growth, 1975-2010*		000015
Emissions Automotive Power Systems and Appendices*	Economic Impact of Mass Production of Alternative Low		000046
	Economic-Social-Environmental Planning*		000069
Decision-Making and Implications for Energy Use - Some	Economic Considerations*	*Roadway	000128
*together with the Annual Report of the Council of	Economic Advisers Transmitted to the Congress January		000206
Annual Report of the Council of Economic Advisers	Economic Report of the President Together with the		000206
Choice*	Economic Approach to Value of Time and Transportation		000271
Interaction Between	Economic Modeling for Transportation Planning. Part I:		000319
Physical Foundations for Socio-	Economic Personal Vehicle		000382
Flywheel/Heat Engine Power for an Energy-	Economic Structure of Nonmetropolitan Areas in the 1970		000398
*The Changing Demographic and	Economic, and Environmental Implications in		000459
*Social,	Economic Areas: 1950, 1960, and 1970, with Projections		000483
Transportation Planning	Economic and Engineering Analysis of Truck, Belt, Rail,		000531
Operating Times Between the Metropolitan Centers of BEA	Economic and Technical Feasibility Study for Energy		000543
Barge and	Economic Evaluation of Transport Investment Alternatives		000602
Storage Flywheels*	Economic Impact of Automobile Travel Cost Increases on		000605
	Economic Analysis of the EPCA New Car Efficiency		000607
Households*	Economic and Regulatory Analysis of the Proposed		000661
Standard*	Economic Impact of President Carter's Energy Program*		000716
Standby Gasoline Rationing Plan*	Economic Analyses* Energy Consumption of the Commercial		000737
	Economic Considerations of the Use of Self-Supporting		000512
Air Transportation System, Volume II: Market and	Economics, and Hazards (Excerpts)*		000276
Plastic Sandwich Constructions in	Economics of Traffic Density in the Rail Freight		000286
Technical and	Economies: 1976*		000727
Industry*	Economy Information Program: An Evaluation of the PEA/		000003
	Economy and Emissions*		000055
*The Impact of Travel on State	Economy in Transportation Systems by Use of Energy		000056
EPA Gas Mileage Label and	Economy*		000059
Impact of Diagnostic Inspection on Automotive Fuel	Economy Through Teamwork: The Science of Saving Fuel		000090
Management - Third Year's Program*	Economy*		000091
Valve Timing--Its Effect on Emissions and Fuel	Economy Through Teamwork: Operating for Fuel Economy		000092
	Economy*		000092
Fuel Economy Through Teamwork: Operating for Fuel	Economy through Teamwork: Driving for Fuel Economy		000093
	Economy through Teamwork: Purchasing for Fuel Economy*		000094
*Fuel Economy through Teamwork: Driving for Fuel	Economy through Teamwork: Pupil Transportation and		000095
	Economy Management Handbook* School Transportation		000096
*Fuel Economy through Teamwork: Purchasing for Fuel	Economy, and Driveability of Vehicles Fueled with		000177
Energy Conservation*	Economy: A Realistic Appraisal of Prospects and Impacts*		000197
Effective Energy Management (ESTEEM). A Fuel	Economy Van*		000203
Alcohol-Gasoline Blends*	Economy of the Turbulent Flow System for European 4-Cyl		000209
	Economy of the Light Duty Diesel Truck*		000223
Exhaust Emissions, Fuel	Economy Testing Summary		000226
The Hydrogen Energy	Economy Potential of Six 1976-Model Vehicles		000249
*The Origin and Uses of the	Economy and Emissions Testing and Other Procedures for		000257
Emissions and Fuel	Economy Benefits*		000273
Gas Emissions and Fuel	Economy		000284
Driving Cycles for Fuel	Economy		000301
An Investigation of Fuel	Economy		000335
1978 and	Economy in a Compact Car*Analysis of Regenerated Single-		000350
General Motors Response to Proposed Fuel	Economy, Final Report		000369
A Synthesized Engine Oil Providing Fuel	Economy and Performance in Recent Model Years		000386
Utilization Program*	Economy Results from EPA Tests and Actual In-Use		000404
Overall Design Approach to Improving Passenger Car Fuel	Economy Labeling*	*Development	000405
Survey of Driver Aid Devices for Improved Fuel	Economy and Emissions*		000413
Computer Simulations of Emissions and Fuel	Economy ... Trends Through 1978*		000441
Shaft Ceramic Gas-Turbine Engines and Resulting Fuel	Economy in Short Trip Operation. Technical Progress		000494
Utilization of Waste Heat in Trucks for Increased Fuel	Economy: A Statistical Evaluation*		000509
Concise Description of Auto Fuel	Economy with Emission Constraints		000534
Experience, 1974-1977 Model Year	Economy (Selected SAE Papers 1965 - 1975)*		000585
A Comparison of Fuel	Economy in Engine Performance		000586
of a System of Comparable Car Classes for Fuel	Economy: Ten-Year Supply-Demand Profiles for Mineral		000671
*Optimizing Engine and Car Design for Fuel	Economy Test Procedures Panel Report*Study of Potential		000676
*Light Duty Automotive Fuel	Economy Improvement: Fuel Economy Test Procedures Panel		000677
Report for Period May 1, 1977 -	Economy Improvement: Safety Implications Panel Report*		000678
*Uncertainties in Estimates of Fleet Average Fuel	Economy Improvement: Air Quality and Emissions Panel		000695
Engine Control Optimization for Best Fuel	Economy Program: Second Annual Report to the Congress		000697
	Economy Contractors' Coordination Meeting: Summary		000698
*Automotive Fuel	Economy ... A Subject Bibliography from Highway Safety		000711
*Engineering Know-How in Engine Design, Part 24:	Economy for Motorcycles. Technical Support Report for		000748
and Fuel Commodities (1966-75)*	Economy and Emissions*		000023
Minerals in the U.S.	Edition		000040
for Motor Vehicle Fuel Economy Improvement: Fuel	Edition 1*		000266
Report*	Edition 2*	*Transportation Energy Conservation	000314
Study of Potential for Motor Vehicle Fuel	Edition 1975		000322
Report*	Edition*		000431
Study of Potential for Motor Vehicle Fuel	Edition 2		000577
Report*	Edition*		000620
Automotive Fuel	Edition		000633
*Automotive Fuel			
Literature*			
Increment and Power Setting on Emissions and Fuel			
*How Passenger Car Maintenance Affects Fuel			
*Transit Fact Book, 1977-78			
*Yearbook of Railroad Facts: 1978			
*Regional Transportation Energy Conservation Data Book.			
Data Book: A Selected, Annotated Bibliography.			
*World Road Statistics: 1970-1974.			
*World Motor Vehicle Data: 1977			
*Transportation Energy Conservation Data Book:			
*Trinc's Blue Book of the Trucking Industry: 1977			
*1975 Business Statistics. Twentieth Biennial			

PERMUTED TITLE INDEX

Plans, FY 1978*	#Environmental Development Plan (EDP): Transportation Energy Conservation, FY 1977*	000647
Divisions and States (Spring 1976 Survey of Income and	EDP): Summary and Status of Environmental Development Education)* States and the North Central Region, by Education Test Project. Final Report*	000651
o' the Demand for Automobiles. Volume I. The Wharton	EPA Automobile Demand Model* the Long-Run Determinants Effecting Intercity Energy Use*	000640
#Alternative Policies for	Effective Range, and Cost of Electric Vehicles* #On	000666
the Relationship between Gross Vehicle Weight, Payload,	Effective Energy Management (ESTEEM). A Fuel Economy	000558
Management Handbook* #Encouraging School Transportation	Effective Fuel Conservation Programs Could Save	000587
Millions of Gallons of Aviation Fuel. Report to the #	Effective Maintenance of Rail Transit Vehicles in Urban	000019
Mass Transit Systems* #Model for Cost-	Effectiveness Methodology. Phase I Research*	000095
Systems on Electric and Other #Determination of the	Effectiveness and Feasibility of Regenerative Braking	000246
Systems on Electric and Other #Determination of the	Effectiveness and Feasibility of Regenerative Braking	000548
Between Energy Efficiency and Physical Distribution	Effectiveness in Intercity Freight Markets* Trade-offs	000149
#An Analysis of Transportation Planning	Effectiveness*	000167
#Consumer Behavior Toward Fuel-	Efficient Vehicles: Report of the Literature Search*	000168
#Consumer Behavior Toward Fuel	Efficient Vehicles: Literature Review*	000539
#Airframe Technology for Energy	Efficient Transport Aircraft*	000600
#Baseline Gas Turbine Development Program.	Eighteenth Quarterly Progress Report*	000083
#Demand	Elasticities for Gasoline: Another View*	000122
Travel Demand: A Review and Bibliography*	Elasticity Estimates for Transport Fuel Consumption and	000370
Transportation: A Survey of Empirical Evidence on the	Elasticity of Travel Demand* #Pricing in Urban	000561
#A Comparison Between the Primary Energy Consumption of	Electric and Gasoline Powered Vehicles*	000004
Vehicle Weight, Payload, Effective Range, and Cost of	Electric Vehicles* #On the Relationship between Gross	000123
Performance Batteries for Stationary Energy Storage and	Electric-Vehicle Propulsion. Progress Reports* #High-	000505
and Problems*	Electric Propulsion for Road Vehicles. State of the Art	000018
#Investigation of the Feasibility of a Dual Mode	Electric Vehicles in Germany - Present and Future*	000019
of a Prototype Inductive Power Coupling for	Electric Transportation System*	000036
Aerodynamic Friction and Motor-Driveline Efficiency of	Electric Highway Systems* and Characteristics	000047
Determination Study*	Electric Vehicles from Track Tests* #Tire	000048
Foreign (U)*	Electric and Hybrid Vehicle Performance and Design Goal	000078
#Impact of a Future Population of	Electric Vehicle Research, Development, and Technology-	000079
of a Future Population of Electric Vehicles on the	Electric Vehicles on the Electric Power Industry*	000088
#Analysis of On-Road	Electric Power Industry* #Impact	000089
#Near-Term Advanced	Electric Vehicle Experiences of 62 U.S. Utilities*	000104
#Computer Simulation of an Advanced Hybrid	Electric Vehicle Batteries*	000108
and Testing of Lithium/Iron Sulfide Batteries for	Electric Vehicle Experiences of 62 U.S. Utilities*	000108
Aluminum/Iron Sulfide Batteries for Load-Leveling and	Electric Vehicle Experiences of 62 U.S. Utilities*	000109
#Development of Large Size Nickel-Zinc Cells for	Electric Vehicle Experiences of 62 U.S. Utilities*	000111
#Energy Impacts of	Electric Vehicle Experiences of 62 U.S. Utilities*	000120
#Lithium Requirements for	Electric Vehicle Experiences of 62 U.S. Utilities*	000126
#United States Postal Service	Electric Vehicle Experiences of 62 U.S. Utilities*	000127
1: System Description Volume #Battery-Plywheel Hybrid	Electric Vehicle Experiences of 62 U.S. Utilities*	000146
and Feasibility of Regenerative Braking Systems on	Electric Vehicle Experiences of 62 U.S. Utilities*	000152
and Feasibility of Regenerative Braking Systems on	Electric Vehicle Experiences of 62 U.S. Utilities*	000155
#Test and Evaluation of 23	Electric Vehicle Experiences of 62 U.S. Utilities*	000159
#Proceedings of the Third International	Electric Vehicle Experiences of 62 U.S. Utilities*	000166
Art (SOA) Test and Data Project Review and Near-Term	Electric Vehicle Experiences of 62 U.S. Utilities*	000167
#Environmental Development Plan:	Electric Vehicle Experiences of 62 U.S. Utilities*	000168
and Design Study to Develop Lead-Acid Batteries for	Electric Vehicle Experiences of 62 U.S. Utilities*	000188
System (PIES) Documentation. Volume 13. Coal and	Electric Vehicle Experiences of 62 U.S. Utilities*	000192
#Near-Term	Electric Vehicle Experiences of 62 U.S. Utilities*	000194
#Relation Between Efficiency and Range of	Electric Vehicle Experiences of 62 U.S. Utilities*	000195
and Lightweight Hybrid Plywheel/Battery Powered	Electric Vehicle Experiences of 62 U.S. Utilities*	000201
#Energy Requirement for	Electric Vehicle Experiences of 62 U.S. Utilities*	000202
Development*	Electric Vehicle Experiences of 62 U.S. Utilities*	000219
#Urban Applications and Energy Impacts of Future	Electric Vehicle Experiences of 62 U.S. Utilities*	000248
#Impacts of Future Use of	Electric Vehicle Experiences of 62 U.S. Utilities*	000255
#Applicability of	Electric Vehicle Experiences of 62 U.S. Utilities*	000272
#High Performance	Electric Vehicle Experiences of 62 U.S. Utilities*	000277
#Development of	Electric Vehicle Experiences of 62 U.S. Utilities*	000278
Railroads, Their Lessors and Proprietary Companies, and	Electric Vehicle Experiences of 62 U.S. Utilities*	000279
#The Potential Market for On-the-Road	Electric Vehicle Experiences of 62 U.S. Utilities*	000281
#The Efficiency Improvement of	Electric Vehicle Experiences of 62 U.S. Utilities*	000282
#A Pictorial Characterization of Worldwide	Electric Vehicle Experiences of 62 U.S. Utilities*	000285
#Market Objectives for	Electric Vehicle Experiences of 62 U.S. Utilities*	000321
#The Townobile	Electric Vehicle Experiences of 62 U.S. Utilities*	000326
#An Advanced Electric Motor Transmission for	Electric Vehicle Experiences of 62 U.S. Utilities*	000336
Development Plan. Technical Report*	Electric Vehicle Experiences of 62 U.S. Utilities*	000338
Study of an Electric Motor-Transmission System for	Electric Vehicle Experiences of 62 U.S. Utilities*	000349
Vehicles: Technical Report*Characterization Study of an	Electric Vehicle Experiences of 62 U.S. Utilities*	000353
Study of an Electric Motor-Transmission System for	Electric Vehicle Experiences of 62 U.S. Utilities*	000367
#Characterization Study of an	Electric Vehicle Experiences of 62 U.S. Utilities*	000388
#Preliminary Power Train Design for a State-of-the-Art	Electric Vehicle Experiences of 62 U.S. Utilities*	000388
Years of a Service Test Program* #Comparison of an	Electric Vehicle Experiences of 62 U.S. Utilities*	000389
#Bibliography on	Electric Vehicle Experiences of 62 U.S. Utilities*	000389
#State-Of-The-Art Assessment of	Electric Vehicle Experiences of 62 U.S. Utilities*	000397
Twelve State-of-the-Art Individual	Electric Vehicle Experiences of 62 U.S. Utilities*	000407
#The Need for Development of High-Energy Batteries for	Electric Vehicle Experiences of 62 U.S. Utilities*	000407
Applications*	Electric Vehicle Experiences of 62 U.S. Utilities*	000412
#The Dollar, Energy and Labor Intensity of an	Electric Vehicle Experiences of 62 U.S. Utilities*	000421
#The Advisability of Regulating	Electric Vehicle Experiences of 62 U.S. Utilities*	000466
Demonstration #Opportunity and Risk Assessment of the	Electric Vehicle Experiences of 62 U.S. Utilities*	000467
FTA: An Examination of Future Ridership, Service, and	Electric Vehicle Experiences of 62 U.S. Utilities*	000471
#The Design and Development of a Hybrid-	Electric Vehicle Experiences of 62 U.S. Utilities*	000477
	Electric Vehicle Experiences of 62 U.S. Utilities*	000489
	Electric Vehicle Experiences of 62 U.S. Utilities*	000499
	Electric Vehicle Experiences of 62 U.S. Utilities*	000507
	Electric Vehicle Experiences of 62 U.S. Utilities*	000508
	Electric Vehicle Experiences of 62 U.S. Utilities*	000535

PERMUTED TITLE INDEX

*Preliminary Power Train Design for a State of the Art	000549
#Near-Term	000550
#J.K.	000551
Use Patterns for Defining Battery Requirements for	000562
#New Batteries and Their Impact on	000563
#The Requirements for Batteries for	000564
#Near-Term	000566
#Development of	000567
#A Cycle Timer for Testing	000568
Alternatives Propulsion: Synthetic Fuel Versus Battery/	000599
Planning Grants*	000646
on the Implementation of Public Law 94-413: The	000652
#Applicability of Federal Motor Vehicle Standards to	000655
#Recommended Performance Standards for	000696
#Mathematical Model for the Design of Brigs for	000729
#The Consumer	000745
#Contribution to the Theory of the	000749
#A Purpose-Built	000751
#Driving Cycles for	000754
#A Digital Computer Program for Simulating	000759
#Energy Analysis and the	000763
Consumption Capability*	000771
#An Experimental ICE/Battery-	000012
Engine/Flywheel: Hybrid Propulsion Configuration with	000013
Engine/Flywheel: Hybrid Propulsion Configuration with	000512
of Self-Supporting Plastic Sandwich Constructions in	000731
Simulation*	000178
#Development of Batteries for	000121
#Methodology for Predicting the Demand for New	000569
#Railroad	000694
#A Review of Factors Influencing Railroad	000753
#Battery and	000070
#Design of	000622
#Allocation of Natural Gas Under Energy	000645
#Energy	000667
#DOE Proposes	000073
#An Evaluation of Alternative Power Sources for Low-	000224
and Plausibility Limit Effects on Exhaust Hydrocarbon	000534
#Engine Control Optimization for Best Fuel Economy with	000031
and Jet A Fuels*	000046
#Performance and	000055
#Economic Impact of Mass Production of Alternative Low	000059
of Diagnostic Inspection on Automotive Fuel Economy and	000096
#Valve Timing--Its Effect on	000182
Fueled with Alcohol-Gasoline Blends*	000203
#An Experimental Engine Control System Over the Federal	000204
for European 4-Cyl Engines*	000209
Derived from Urban Driving Schedule Data*	000249
#Exhaust	000297
#Gas	000335
#General Motors Response to Proposed Fuel Economy and	000392
An Evaluation of Alternatives for Reducing Automobile	000393
#Computer Simulations of	000413
#Fuel Consumption,	000500
#Fuel Consumption,	000678
#Optimizing Engine and Car Design for Fuel Economy and	000711
Loop Control of Internal Combustion Engine Exhaust	000748
Motor Vehicle Fuel Economy Improvement: Air Quality and	000771
of Dynamometer Inertia Increment and Power Setting on	000361
#New Passenger Car Maintenance Affects Fuel Economy and	000505
#An Experimental ICE/Battery-Electric Hybrid with Low	000264
#Methanol as an Automotive Fuel with Special	000072
#Pricing in Urban Transportation: A Survey of	000217
Carriers*	000095
#A Preliminary Assessment of	000134
System (PIES) Documentation, Volume 9, Methodology for	000139
Management (ESTEM). A Fuel Economy Management Handbook*	000324
#Consumer Air Carrier Traffic Statistics: 12 Months	000325
of Certified Route Air Carriers for 12 Months	000326
Commodity Statistics: Motor Carriers of Property, Year	000327
#Transport Statistics in the United States for the Year	000328
#Transport Statistics in the United States for the Year	000329
#Transport Statistics in the United States for the Year	000330
#Transport Statistics in the United States for the Year	000001
#Transport Statistics in the United States for the Year	000008
and Operating Statistics for the Twelve Months	000010
#Federal	000014
#Mode Shift Strategies to Effect	000015
#Engines and	000018
of Nonfuel Minerals and Materials for the United States	000022
#U.S.	000032
Vehicles*	000036
2*	000037
#A Comparison Between the Primary	000038
#Proceedings of the 12th Intersociety	000045
#President's Proposed	000054
Progress	000054
#High-Performance Batteries for Stationary	000054
#Geometric Dimensions of	000054
#Design Considerations on a Thermal	000054
#Modeling Personal Consumption of Goods in the PILOT	000054
Global and National Studies*	000054
Fuel Economy in Transportation Systems by Use of	000054
Electric Vehicle Program: Phase 1, Final Report*	000550
Electric Vehicle Development Program*	000551
Electric Cars* #The Computer Simulation of Automobile	000562
Electric Vehicles*	000563
Electric Vehicles*	000564
Electric Vehicle Program: Phase 1, Final Report*	000566
Electric Vehicles in Czechoslovakia*	000567
Electric Vehicles*	000568
Electric Systems* #Long Term Energy	000599
Electric and Hybrid Vehicle Program: Small Business	000646
Electric and Hybrid Vehicle Research, Development and	000652
Electric and Hybrid Vehicle Demonstration: 1978*	000655
Electric and Hybrid Vehicles*	000696
Electric and Hybrid Vehicles*	000729
Electric Vehicle Research*	000745
Electric Car*	000749
Electric Vehicle*	000751
Electric Taxi*	000754
Electric Urban Vehicles and Methods for Obtaining Them*	000759
Electric Vehicle Performance*	000763
Electric Car*	000771
Electric Hybrid with Low Emissions and Low Fuel	000012
Electrical Transmission System, Phase II Final Report:	000013
Electrical Transmission System, Phase I: Final Report*	000512
Electrical Vehicles* Considerations of the Use	000731
Electrical Component Modeling and Sizing for EV	000178
Electrically-Driven Vehicles*	000121
Electricity-Using Boats*	000569
Electrification: The Issues*	000694
Electrification*	000753
Electrochemical Systems Program Summary: FY 1977*	000070
Elevated Guideway Structures for Light Rail Transit (000622
Emergencies: Analysis of Selected Federal Actions*	000645
Emergencies*	000667
Emergency Gasoline Rationing Plan*	000073
Emission Automobiles*	000224
Emission, Final Report, Phase 2, October 1, 1976 -	000534
Emission Constraints*	000031
Emissions of a Catalytic Reactor with Propane, Diesel,	000046
Emissions Automotive Power Systems and Appendices*	000055
Emissions* #Impact	000059
Emissions and Fuel Economy*	000096
Emissions, Fuel Economy, and Driveability of Vehicles	000182
Emissions Driving Schedule* System Optimization of	000203
Emissions and Fuel Economy of the Turbulent Flow System	000204
Emissions, Fuel Consumption and Traffic: Relations	000209
Emissions and Fuel Economy of the Light Duty Diesel	000249
Emissions Testing and Other Procedures for 1978 and	000297
Emissions and Fuel Consumption* in the SCAG Region:	000335
Emissions and Fuel Economy*	000392
Emissions, and Power Characteristics of the 1975 Datsun	000393
Emissions, and Power Characteristics of the 1975 Ford	000413
Emissions*	000500
Emissions* #Closed-	000678
Emissions Panel Report* #Study of Potential for	000711
Emissions and Fuel Economy for Motorcycles, Technical	000748
Emissions*	000771
Emissions and Low Fuel Consumption Capability*	000361
Emphasis on Methanol-Gasoline Blends*	000505
Empirical Evidence on the Elasticity of Travel Demand*	000264
Employment and Earnings*	000072
Empty Mile: Traveled by Selected Regulated Motor	000217
Enabling the PIES Oil and Gas Supply Curves to Respond	000095
Encouraging School Transportation Effective Energy	000134
Ended June 30, 1977*	000139
Ended December 31, 1976* #Airport Activity Statistics	000324
Ended December 31, 1974* #Freight	000325
Ended December 31, 1975, Part 5: Carriers by Water*	000326
Ended December 31, 1975, Part 1: Railroads, Their	000327
Ended December 31, 1975, Part 3: Freight Forwarders*	000328
Ended December 31, 1975, Part 4: Private Car Lines*	000329
Ended December 31, 1975, Part 2: Motor Carriers*	000330
Ended December 31, 1975* #Class I Railroads: Financial	000001
Energy Reorganization: Historical Perspective*	000008
Energy Savings in Intercity Transportation*	000010
Energy--Future Trends*	000014
Energy Industry, 1975-90--A Preliminary Report* Supply	000015
Energy and Economic Growth, 1975-2010*	000018
Energy Consumption of Electric and Gasoline Powered	000022
Energy Conversion Engineering Conference, Volumes 1 and	000032
Energy Tax Measures Costly for Consumers*	000036
Energy Storage and Electric-Vehicle Propulsion.	000037
Energy Demand and Supply*	000038
Energy Storage Stirling Engine Automobile*	000045
Energy Model*	000054
Energy Supply-Demand Integrations to the Year 2000:	000054
Energy Management - Third Year's Program* #Increased	000054

PERMUTED TITLE INDEX

Fate* #Effect of Energy Shortage and Land Use on Automobile Occupancy 000061
 #Analysis of Past and Expected Future Trends in U.S. Energy Consumption, 1947-2000* 000062
 Volume 1. Overview and Findings* #Energy Storage Systems for Automobile Propulsion. 000063
 Examination of Four Existing Scenarios* #Transportation Scenario Analysis Technical Report No. 1: 000067
 Related Data Bases Extracted from the National Index of Energy and Environmental Data Bases. Part I: Digest of 000071
 of Automotive Fleet Operations on Transportation Energy Conservation* #Report on the Aspects 000075
 Transportation* #Application of Energy Storage Power Systems to Nonhighway 000077
 Volume IV: Task III-Efficiency Improvements, Task IV- #Energy Use in the Marine Transportation Industry. 000082
 #Opportunities and Strategies for Energy Conservation* 000086
 Fuel Economy through Teamwork: Pupil Transportation and Energy Conservation* 000094
 Handbook* #Encouraging School Transportation Effective Input-Output Analysis* #Energy Management (ESTEEM). A Fuel Economy Management 000095
 #Analyses of the National #Conference Report: Energy Analysis: Handbook for Combining Process and 000100
 Analyses of Program Measures to Promote #State Energy Plan: The Effects on Transportation* 000101
 #Highway Safety Effects of the Energy Conservation in Transportation and Construction* 000103
 A Computer-Based Model for Exploring Land Use and Energy Conservation Plans: Guidelines for Travel Demand 000107
 Exploring Land Use and Energy Relationships* #Land Use - Energy Crisis on U.S. Toll Roads* 000110
 Between Land Use and Energy Utilization* #The Planner's Energy Relationships* Use - Energy Simulation Model: 000112
 Manual for Exploring Relationships Between Land Use and Energy Simulation Model: A Computer-Based Model for 000112
 Leveling and Electric- #Lithium Requirements for High- Energy Workshop: A Manual for Exploring Relationships 000113
 #Roadway Decision-making and Implications for Energy Utilization* #The Planner's Energy Workshop: A 000113
 #Contractors' View on Optimizing Materials and Energy Lithium-Aluminum/Iron Sulfide Batteries for Load- 000127
 #Optimizing the Use of Materials and Energy Use - Some Economic Considerations* 000128
 #Energy in Transportation Construction* 000129
 #Energy Impacts of Electric Cars* 000142
 Impact and Options* #The Carter Energy Plan - Some Answers to the Questions* 000152
 Impacts* #The Hydrogen Energy Crisis and Low-Income Americans: An Analysis of 000156
 #Impact of Selected Energy Economy: A Realistic Appraisal of Prospects and 000160
 Description* #The Transportation Energy Conservation Technologies on Baseline Demands* 000177
 #Ten Scenarios of Transportation Energy Conservation Network (TECNET): A Summary 000179
 #Energy Conservation Using TECNET* 000180
 #Energy, the Environment and Land Use: Literature Review* 000184
 #Energy, the Environment, and Land Use. Final Report* 000185
 #Energy Consumption in the Transportation Sector* 000187
 #End Use Energy Consumption Data Base: Series 1 Tables* 000191
 Efficiency* #Bibliography Energy Extension Service* 000193
 Programs #Update to the National Energy Accounts: Energy Forecasts: Impact of Price, Availability, and 000199
 1974. Volume II. Programs #Update to the National Energy Flows in the U.S., 1973 and 1974. Volume II. 000210
 Methodology* #Update to the National Energy Accounts: Energy Accounts: Energy Flows in the U.S., 1973 and 000210
 1974. Volume 1: Methodology* #Update to the National Energy Flows in the U.S., 1973 and 1974. Volume 1: 000211
 Conference. Volumes I and II* #Energy Use Management: Proceedings of the International 000212
 Consumers' Attitudes, Knowledge, and Behavior Regarding Energy Conservation* 000213
 #Application of New Energy Analysis to Consumer Technologies* 000235
 #The Impact of the U.S. Energy Situation on High Speed Ground Transportation* 000236
 #Federal Energy Data System (FEDS): Statistical Summary* 000239
 #Toward Establishing a National Energy Policy* 000240
 #Report to the Congress: An Evaluation of the National Energy Plan* 000247
 System. Volumes I and II (#Definition Study for a Net Energy Assessment: The Washington, D.C. Metrorail 000250
 #Automotive Energy Analysis: A New Public Policy Tool* 000251
 Coal Products (SIC 29). Volume 2: Technical Appendices* Energy Use: A Baseline Projection for New York State* 000260
 #Regional Transportation Energy Efficiency Improvement Targets: Petroleum and 000261
 #Energy Conservation Data Book. Edition 1* 000266
 #Energy Consumption, Income, and Housing* 000270
 #Energy Requirements for Electric Road Vehicle Propulsion* 000277
 #Urban Applications and Energy Impacts of Future Electric Cars* 000279
 #Energy Conservation Strategies* 000289
 #Costs and Energy Efficiency of a Dual-Mode System* 000291
 2: Description of Operating Systems* #Energy Study of Automated Guideway Transit (AGT) Systems 000293
 Administrative Summary* #Caltech Seminar Series on Energy Study of Rail Passenger Transportation. Volume 000294
 #Energy Consumption in Private Transportation: 000296
 #Energy Use in the United States by State and Region* 000303
 Bibliography. Edition 2* #Transportation Energy Conservation Data Book: A Selected, Annotated 000314
 Transportation Equipment Industry (SIC 37). Volume 1* #Energy Efficiency Improvement Targets in the 000339
 #Changes in Individual Travel Behavior During the Energy Crisis, 1973-74* 000341
 #Energy Flow Patterns for 1975* 000345
 Phase I Comprehensive #The Distributional Impact of Energy Policies: Development and Application of the 000346
 Review and Evaluation* #Baseline Energy Consumption Forecasts for Transportation: A 000354
 System. Volume #Cost/Benefit Tradeoffs for Reducing the Energy Consumption of the Commercial Air Transportation 000356
 #Urban Transportation and Energy: The Potential Savings of Different Modes* 000358
 Objective* #Transportation Energy Conservation: Tools to Meet the National 000359
 #Battery Research Sponsored by the U.S. Energy Research and Development Administration* 000360
 #Energy Conservation: The State of the States* 000365
 - 1972* #Energy Supply and Demand in the Northeast United States 000366
 #Airframe Technology for Energy Efficient Transport Aircraft* 000370
 #National Energy Transportation. Volume III: Issues and Problems* 000376
 #Travelers' Attitudes and Energy Conservation* 000377
 #Flywheel/Heat Engine Power for an Energy-Economic Personal Vehicle* 000382
 Counting Patterns for New Jersey* #Energy Savings for Work Trips: Analysis of Alternative 000383
 Studies* #Energy Supply to the Year 2000: Global and National 000394
 #The Energy Crisis: Fact or Fiction* 000401
 #Energy Intensity of Intercity Passenger Rail* 000417
 #Energy Constraints on Transportation Systems* 000418
 #Third National Conference on the Effects of Energy Gases as a Fuel Supplement (Fumigation)* 000423
 of a Diesel Engine Using Low- and Medium- #Energy Study of Railroad Freight Transportation. Volume 000424
 1: Executive Summary* #Energy Study of Railroad Freight Transportation. Volume 000425
 2: Industry Description* #Energy Study of Railroad Freight Transportation. Volume 000426
 4: Efficiency Improvements and Industry Future* and Comparison of Railroad and Truck Line-Haul Work (Energy) Requirements* #An Engineering Analysis 000428

DERIVED TITLE INDEX

	#Evaluating the National Energy Situation in the Mid-Atlantic Region*	000440
	#Development Schedules for Vehicle Energy Storage Systems*	000441
Nodes of Transportation*	#Energy Research Needs and Priorities. A Report to the Energy Research and Development Administration*	000464
Energy	#Scope and Plan for a Study of Transportation Energy Research Needs and Priorities. A Report to the Energy Research and Development Administration*	000465
	#Potential for Energy Conservation in the United States: 1979-1985*	000469
	#The Need for Development of High-Energy Batteries for Electric Automobiles*	000471
	#Public Opinion Survey on Energy and Transportation*	000472
and Processing Guide*	#Lifestyles and Household Energy Use: 1973 and 1975 National Surveys, Code Book*	000473
	#Balancing Requirements for World Oil and Energy*	000474
	#Bibliography for Transportation Energy Conservation*	000479
Railroad*	#Driving and Energy Conservation. Highlight Report. Volume III*	000488
1: Regulation and Tariff*	#The Dollar, Energy and Labor Intensity of an Electric Computer Energy Study of Railroad Freight Transportation. Volume I*	000491
	#The Advinability of Regulating Electric Vehicles for Energy Conservation*	000499
	#The Potential for Transit as an Energy Saving Option*	000507
	of the Presidential Task Force on Reform of Federal Energy Administration Regulations. Volume 1 and Volume Energy Conservation*	000503
	#Transportation Policies and Energy Conservation*	000511
	#The Total Energy Cost of Freight Transport*	000525
	#1975 Energy Conditions in the South*	000527
Performance and R & D Implications*	#DoD Energy Conditions in the South*	000528
	#Composite Fiber Plywheel for Energy R & D. Part II: Military Fuel Options-- Energy Storage*	000530
Interaction Between Rural Regional Transportation and Energy Availability*	#Evaluation of Energy Efficiency and Physical Distribution*	000531
Analysis of the Incremental Cost and Trade-offs Between Energy Conservation. Volume II: Analysis*		000539
#Intercity Passenger Transportation: Mode/ Energy Conservation. Volume I: Executive Summary*		000541
#Intercity Passenger Transportation: Mode/ Energy Storage Plywheels*		000542
#Economic and Technical Feasibility Study for Energy Baseline Automobile Gas-Turbine Engine*		000543
of the Compressor-Drive Turbine of the Department of Energy Shortage on Travel Patterns and Attitudes*		000544
	#Impact of the Energy Conservation Data Book: Edition 2*	000552
	#Transportation Energy Conservation and Demand*	000577
	#Alternative Policies for Effecting Intercity Energy Use*	000579
	#Evaluation of Maritime Industry Energy Consumption Profiles*	000587
Marginal Prices. Final Report. Volume I*	#Fuel and Energy Price Forecasts: Quantities and Long-Term Energy Price Forecasts: Final Report. Volume II - Data*	000597
Base*	#Fuel and Energy Price Forecasts: Final Report. Volume II - Data*	000598
Battery/Electric System*	#Long Term Energy Alternatives Propulsion: Synthetic Fuel Versus Energy Consumption*	000599
	#Statistical Report on Urban Energy Consumption and Conservation Policy Options in the Northeast*	000606
Report of Technology Study Panel, Inexhaustible Energy Resources Study*	#The Need for and Deployment of Inexhaustible Energy Resource Technologies: Report of Technology Energy Resource Technologies: Report of Technology*	000609
* Allocation of Natural Gas Under Energy Emergencies: Analysis of Selected Federal Actions*		000614
Transportation*	#Energy Program 8: Energy Tax Proposals Relating to Transportation*	000622
	#Analysis of the Proposed National Energy Program 8: Energy Tax Proposals Relating to Energy Plan*	000630
#Environmental Development Plan (EDP): Transportation Energy Emergencies*		000631
#Voluntary Business Energy Conservation, FY 1977*		000645
Congress: 1977. Volume I*	#Energy Conservation Program: Progress Report No. 6*	000647
Annual Report to Congress. Volume II: Projections of Energy Information Administration Annual Report to Congress. Volume II: Projections of Energy Supply 1977 to Congress. Volume III: Statistics and Trends of Energy Supply, Demand, and Prices*		000648
Congress. Volume III: Statistics and Trends of Energy Information Administration Annual Report to Congress. Volume III: Statistics and Trends of Energy Information Administration Annual Report to Energy Position Paper on Alcohol Fuels*		000661
	#Department of Energy Efficiency of Agency Regulations* #Report to Energy Organization Act*	000662
	#Economic Impact of President Carter's Energy Program*	000714
Energy Conservation Amendments to President Carter's Energy Program*	#Mandatory Energy Conservation Amendments to President Carter's Energy Program*	000716
	#Status of Federal Energy Conservation Programs. Parts 1 and 2*	000718
	#Department of Energy Organization Act*	000719
	#Department of Energy Organization Act*	000721
	#Department of Energy Organization Act*	000722
	#Fourth National Conference on the "Effects of Energy Constraints on Transportation Systems"*	000730
#Cost/Benefit Tradeoffs for Reducing the Energy Consumption of the Commercial Air Transportation Conference. Volumes I - III*		000737
#First World Hydrogen Energy Conference. Volumes I - III*		000740
#Per Passenger-Mile Energy Consumption and Costs for Suburban Computer Service Diesel Trains*		000746
#Social Organization and Transportation Energy: An Annotated Bibliography*		000752
	#Energy Costs of Heavy Rail Transit Construction*	000762
	#Energy Analysis and the Electric Car*	000763
	#Energy Efficiency*	000764
	#Energy: Global Prospects 1985-2000*	000765
	#Energy Considerations in Urban Transportation Planning* Engaged in Foreign Trade* Foreign Trade: Bunker Fuels. Engine/Plywheel: Hybrid Propulsion Configuration with Engine/Plywheel: Hybrid Propulsion Configuration with Engine Automobile*	000772
Oil and Coal Laden in the United States on Vessels Electrical Transmission System. Phase II #Study of Heat Engine Automobile*		000838
#An Investigative Study of Engine Automobile*		000838
of the Effect of Oil and Coolant Temperatures on Diesel Engine Limiting*		000838
#Transient System Optimization of an Experimental Engine Brake Specific Fuel Consumption* #A Study of the Effect of Oil and Coolant Temperatures on Diesel Engine Control System Over the Federal Emissions Engine Horsepower Projections for the Highway*		000880
#Fuel Consumption and Engine Operation When Fueled with Ethanol and Methanol*		000882
#Cooperative Automotive Engine Oil Providing Fuel Economy Benefits*		000883
#A Synthesized Engine into a Diesel Engine for Passenger Car Service*		000885
#Considerations in Redesigning a Gasoline Engine for Passenger Car Service* #Considerations in Redesigning a Gasoline Engine into a Diesel Engine for Passenger Car Service*		000886
and Catalyst Supports for Automotive Gas Turbine Engine Combustors. Part 1* of Advanced Catalysts Engine*		000887
#A Low NO(x) Lightweight Car Diesel Engine*		000888
#Diesel Fuel Properties and Engine Performance*		000889

PERMUTED TITLE INDEX

Characteristics of the 1975 Datsun 119-CID Automotive Engine--Experimental Data* Emissions, and Power 000382
 Characteristics of the 1975 Ford 140-CID Automotive Engine--Experimental Data* Emissions, and Power 000392
 Stirling Engine Design Manual* 000393
 Representation of Engine Data by Multi-Variate Least-Squares Regression* 000409
 Optimizing Engine and Car Design for Fuel Economy and Emissions* 000413
 Supplement (Performance Characteristics of a Diesel Engine Using Low- and Medium-Energy Gases as a Fuel 000423
 A Variable-Displacement Spark-Ignition Engine* 000498
 Closed-Loop Control of Internal Combustion Engine Exhaust Emissions* 000500
 Consumption Trends* Engine Developments and Agricultural Equipment Fuel 000520
 Emission Constraints* Engine Control Optimization for Best Fuel Economy with 000534
 Department of Energy Baseline Automobile Gas-Turbine Engine* of the Compressor-Drive Turbine of the 000544
 Report* The Development of a 150 kW (200 HP) Stirling Engine for Medium Duty Automotive Application--A Status 000547
 Compliant Surface Bearing for an Automotive Gas Turbine Engine. I - Journal Bearing Performance* Air Lubricated 000551
 Engineering Know-How in Engine Design. Part 24: Economy in Engine Performance* 000586
 Know-How in Engine Design. Part 24: Economy in Engine Performance* Engineering 000586
 Feasibility Test on Compounding the Internal Combustion Engine Computer Model for Performance* 000615
 Design of the 4-215 D.A. Automotive Stirling Engine for Automotive Vehicles, Tank II. Final Report* 000616
 Proceedings of the 12th Intersociety Energy Conversion Engineering Conference. Volumes 1 and 2* 000222
 Transbus Engineering Test Program* 000084
 Truck Line-Haul Work (Energy) Requirements* An Engineering Analysis and Comparison of Railroad and 000428
 Comparative Coal Transportation Costs: An Economic and Engineering Analysis of Truck, Belt, Rail, Barge and 000531
 in Engine Performance* Engineering Know-How in Engine Design. Part 24: Economy 000586
 Gasoline as Compared to Lean Combustion in Automotive Engines: An Assessment of the Addition of Hydrogen to 000009
 Engines and Energy--Future Trends* 000010
 for Automotive Fuel Supplies and Alternative Vehicle Engines, 1985-2010: Implications for Transportation and 000052
 Planning Process: Selected New Automotive Engines* Application of the Technology Implementation 000099
 Diesel, and Direct Injection Stratified Charge Engines* in European Passenger Cars Powered by Gasoline, 000130
 Economy of the Turbulent Flow System for European 4-Cyl Engines* Emissions and Fuel 000203
 of Regenerated Single-Shaft Ceramic Gas-Turbine Engines and Resulting Fuel Economy in a Compact Car* 000350
 Alternative Automobiles* 000766
 Engines for Tomorrow's Passenger Cars* 000768
 Truck Carriers--Coach Class: Traffic, Revenue, Yield, Enplanements and Average On-Flight Trip Length by Fare 000135
 Local Service Carriers Passengers Enplanements: Fiscal Years 1976 and 1975* 000137
 Trunkline Carrier Domestic Passenger Enplanements: Fiscal Years 1976 and 1975* 000138
 Oil in Foreign Trade and Foreign Tank Vessels that Enter the Navigable Waters of the United States* 000681
 Land Use and the Environment - An Anthology of Readings* 000162
 Energy, the Environment and Land Use: Literature Review* 000184
 Energy, the Environment, and Land Use. Final Report* 000185
 Transportation. Volume I: Analytical Railroads and the Environment: Estimation of Fuel Consumption in Rail 000307
 Transportation. Volume II - Freight Railroads and the Environment: Estimation of Fuel Consumption in Rail 000308
 Integrated Economic-Social Environmental Planning* 000069
 Bases Extracted from the National Index of Energy and Environmental Data Bases. Part I: Digest of Detailed 000071
 Systems, FY 1978* Environmental Development Plan: Electric Vehicle 000195
 Social, Economic, and Environmental Implications in Transportation Planning* 000459
 Totality Indexes for Evaluating Environmental Impacts of Highway Alternatives* 000482
 Energy Conservation, FY 1977* Environmental Development Plan (EDP): Transportation 000647
 Development Plan (EDP): Summary and Status of Environmental Development Plans, FY 1978* 000651
 Status of Environmental Development Plans, FY 1978* Environmental Development Plans, FY 1978* 000651
 Gasoline from the Mandatory Allocation and Price Environmental Development Plan (EDP): Summary and 000660
 Tank Vessels Carrying Oil in Foreign Trade and Final Environmental Assessment of the Exemption of Rotor 000681
 Economy Information Program: An Evaluation of the FEA/ Environmental Impact Statement: Regulations for U.S. 000003
 the FEA/EPA Gas Mileage Label and Impact of the FEA/ EPA Gas Mileage Label and 1976 Gas Mileage Guide for 000003
 EPA Fuel Economy Information Program: An Evaluation of EPA Mileage Tests* 000118
 New EPA Tests and Actual In-Use Experience, 1974-1977 Model 000404
 Year Cars* A Comparison of Fuel Economy Results from EPA New Car Efficiency Standards* 000407
 U.S. Gasoline Demand: An Economic Analysis of the Airline Equipment Needs and Financing Through 1985* 000133
 Efficiency Improvement Targets in the Transportation Equipment Industry (SIC 37). Volume 1* Energy 000339
 State of the Art in Passenger Rail-Rolling Stock Equipment* 000420
 Engine Developments and Agricultural Equipment Fuel Consumption Trends* 000520
 Multi-Objective Function Analysis of ERDA Forecast-2, Year-2000 Scenario* 000125
 Effect of Automatic Vehicle Monitoring Error on Transit Schedule Adherence Monitoring* 000098
 School Transportation Effective Energy Management (ESTEEM). A Fuel Economy Management Handbook* Encouraging 000095
 Sulfide Cells for Load-Leveling* Estimate for the Commercial Manufacture of Lithium/Iron 000619
 Demand: A Review and Bibliography* Price Elasticity Estimates for Transport Fuel Consumption and Travel 000123
 Evaluation* Uncertainties in Estimates of Fleet Average Fuel Economy: A Statistical 000509
 Urban Roads* A Procedure for Estimating Automobile Fuel Consumption on Congested 000375
 Volume I: Analytical Railroads and the Environment: Estimation of Fuel Consumption in Rail Transportation. 000307
 Volume II - Freight Railroads and the Environment: Estimation of Fuel Consumption in Rail Transportation. 000308
 Approximation Method* A Handbook for the Estimation of Airside Delays at Major Airports (Quick 000481
 Applications of Value of Travel Time to Travel Demand Estimation* 000522
 Symposium on Alcohol Fuel Technology - Methanol and Automotive Engine Operation When Fueled with 000068
 Ethanol* Proceedings: International 000190
 and Direct Injection Stratified Denaturants for Ethanol and Methanol* Comparative 000436
 Fuel Consumption in Ethanol/Gasoline Blends* 000130
 and Fuel Economy of the Turbulent Flow System for European Passenger Cars Powered by Gasoline, Diesel, 000203
 Electrical Component Modeling and Sizing for European 4-Cyl Engines* Emissions 000731
 Transportation System Performance* Directing the EV Simulation* 000140
 Urban Transportation Alternatives: Evolution of Urban Land Use to Achieve Improved 000145
 Its Synthesis, Use as a Fuel, Economics, and Hazards (Evolution of Federal Policy* 000276
 Excerpts* Methanol: 000037
 1976 Gas Mileage Guide for New Car Buyers. Volume I: Exclusive Bus and Car-Pool Lane (Abridgment)* 000037
 Effects of Daylight The Daylight Saving Time Study. Executive Summary* of the FEA/EPA Gas Mileage Label and 000003
 Movement Demonstration Project Design Phases I and II. Executive Summary - Final Report on the Operation and 000189
 Study of Railroad Freight Transportation. Volume I: Executive Summary* Urban Goods 000340
 Transportation: Mode/Energy Conservation. Volume I: Executive Summary* Energy 000424
 of Probable Automotive Fuels Composition: 1985-2000 and Executive Summary* Intercity Passenger 000542
 Identification 000592

PERMUTED TITLE INDEX

of Energy Supply and Demand and Their Impacts. (Also
 Petroleum Allocation #Findings and Views Concerning the
 #Preliminary Findings and Views Concerning the
 Petroleum Allocation #Findings and Views Concerning the
 Allocation and Price #Environmental Assessment of the
 Vehicles Fueled with Alcohol-Gasoline Blends*
 Relations Derived from Urban Driving Schedule Data*
 October #Wall Quench and Flammability Limit Effects on
 #Closed-Loop Control of Internal Combustion Engine
 Analysis Technical Report No. 1: Examination of Four
 2000* #Review of Studies Leading to
 #Analysis of Past and
 #1976 National Travel
 Reorganization: Congressional Action and Federal
 Fuel Economy Results from EPA Tests and Actual In-Use
 #Analysis of On-Road Electric Vehicle
 System (PIES) Documentation, Volume 9: Allocation of
 - Energy Simulation Model: A Computer-Based Model for
 Utilization#The Planner's Energy Workshop: A Manual for
 #Improved
 #Annotated Bibliography on Highway Travel
 #Where
 Interactions in the #General Aviation Dynamics: An
 #Bibliography Energy
 #Impact of Transit Line
 Environmental Data #Transportation-Related Data Bases
 Volume II: Simulation Analysis Using the Wharton E.
 Automobiles, Volume III: Appendices to the Wharton E.
 #Third Annual
 for the Design of Urban Transportation Interface
 Development and Planning and Developing Transportation
 #Air Travel and Aviation
 Requirements for Metropolitan Transportation Authority
 #Transit
 #The Energy Crisis:
 #1978 National Petroleum News
 #Motor Vehicle
 #Yearbook of Railroad
 #Motor Vehicle
 #Financial
 #Recreation Vehicle Figures,
 Production and Shipments of the Recreation Vehicle
 Income: Money Income and Poverty Status in 1975 of
 #Employments and Average On-Flight Trip Length by
 of User Response to the 1975 New York City Transit
 Fuel Economy Information Program: An Evaluation of the
 of the FEA/EPA Gas Mileage Label and #Impact of the
 of Exploratory Activity to Oil and Natural Gas in the
 System* #Investigation of the
 and Other #Determination of the Effectiveness and
 and Other #Determination of the Effectiveness and
 #Hydrogen-Fueled Railroad Motive Power Systems, A
 Economic and Technical
 Engine for Automotive Vehicles, Task III, Final Report*
 Act of 1964 and Related Laws, as Amended Through
 #Urban Transportation Alternatives: Evolution of
 of an Experimental Engine Control System Over the
 It Off the Shelf: A Methodology for Implementing
 Implementation Process* #Making
 #Urban Mass Transportation: Options for
 #Report of the Presidential Task Force on Reform of
 Gas Under Energy Emergencies: Analysis of Selected
 of 1976*
 Efficiency of Agency #Report to Congress by the
 Vehicles* #Applicability of
 of #Railroad Reorganization: Congressional Action and
 #Federal Energy Data System
 #Composite
 #The Energy Crisis: Fact or
 #The Drag Related Flow
 #Motor Vehicle Facts &
 #Recreation Vehicle
 #Locomotive Data Acquisition Package: Phase I,
 with Electrical Transmission System, Phase II
 with Electrical Transmission System, Phase II,
 Technique for Automotive Turbine Wheels: Phase II,
 Ceramic Regenerator Design and Reliability Program,
 Energy, the Engine, and the Fuel Use,
 #The Daylight Saving Time Study, Executive Summary
 Mandatory Petroleum Allocation and Flammability
 Limit Effects on Exhaust Hydrocarbon Emission
 #Wall Time
 #Near-Term Electric Vehicle Research Strategy
 #Automotive Diesel Technology Strategy
 Executive Summary)* to Congress, Volume II: Projections
 Exemption of Motor Gasoline from the Mandatory
 Exemption of Kerojet Fuels from the Mandatory Petroleum
 Exemption of Motor Gasoline from the Mandatory
 Exemption of Motor Gasoline from the Mandatory
 Exhaust Emissions, Fuel Economy, and Drivability of
 Exhaust Emissions, Fuel Consumption and Traffic:
 Exhaust Hydrocarbon Emission, Final Report, Phase 2,
 Exhaust Emissions*
 #Transportation Energy Scenario
 Existing Values of Travel Time*
 Expected Future Trends in U.S. Energy Consumption, 1987-
 Expenditure Study: Summary Report*
 Expenditures Related to the Final System Plan of the U.
 Experience, 1974-1977 Model Year Cars* #A Comparison of
 Experiences of 62 U.S. Utilities*
 Exploratory Activity to Oil and Natural Gas in the FEA
 Exploring Land Use and Energy Relationships* #Land Use
 Exploring Relationships Between Land Use and Energy
 Exposure Measurements*
 Exposure Research Methods*
 Express Buses Work*
 Extension of the Cost Impact Study to Include
 Extension Service*
 Extension on Residential Land Use*
 Extracted from the National Index of Energy and
 F.A. Automobile Demand Model* Demand for Automobiles.
 F.A. Automobile Demand Model* of the Demand for
 FAA Forecast Conference Proceedings*
 Facilities* #Methodology
 Facilities: What Can We Learn from Abroad* of Urban
 Facilities Planning*
 Facilities* Ridership, Service, and Electric Power
 Fact Book, 1977-78 Edition*
 Fact or Fiction*
 Factbook Issue*
 Factory Sales from Plants in U.S. & Canada*
 Facts: 1978 Edition*
 Facts & Figures '78*
 Facts*
 Facts and Forecasts: 1961 - 1981*
 Facts and Trends 1977: 5th Annual Historical Review of
 Families and Persons in the United States and the North
 West Category (48 State Basis)*Traffic, Revenue, Yield,
 Fare Increase (Abridgment)* #Analysis
 FEA/EPA Gas Mileage Label and 1976 Gas Mileage Guide
 FEA/EPA Fuel Economy Information Program: An Evaluation
 FEA Oil and Gas Supply Model* Volume 9: Allocation
 Possibility of a Dual Mode Electric Transportation
 Possibility of Regenerative Braking Systems on Electric
 Possibility of Regenerative Braking Systems on Electric
 Possibility Study*
 Possibility Study for Energy Storage Flywheels*
 Possibility Test on Compounding the Internal Combustion
 February 5, 1976* #Urban Mass Transportation
 #Federal Energy Reorganization: Historical Perspective*
 Federal Policy*
 Federal Emissions Driving Schedule* System Optimization
 Federal Energy Data System (PEDS): Statistical Summary*
 Federal Research* #Getting
 Federal R and D Useful: A Case Study of the
 Federal Assistance*
 Federal Energy Administration Regulations, Volume 1 and
 Federal Actions* #Allocation of Natural
 Federal-Aid Highway Act of 1976 and Highway Safety Act
 Federal Aviation Administration on the Energy
 Federal Motor Vehicle Standards to Electric and Hybrid
 Federal Energy Conservation Programs, Parts 1 and 2*
 Federal Expenditures Related to the Final System Plan
 PEDS): Statistical Summary*
 Fiber Flywheel for Energy Storage*
 Fiction*
 #Field Evaluation of Miles-Per-Gallon Meters*
 Field Characteristics of Trucks and Buses*
 Figures '78*
 Figures, Facts and Forecasts: 1961 - 1981*
 Final Report*
 Final Report: Design Definition* Configuration
 Final Report* Flywheel: Hybrid Propulsion Configuration
 Final Report, Period January 1975 Through March 1977*
 Final Annual Report for Period July 1, 1975 to
 Final Report*
 Final Report on the Operation and Effects of Daylight
 Final Report* the Exemption of Motor Gasoline from the
 Final Report, Phase 2, October 1, 1976 - September 30,
 Final Destination*
 Final Report*
 Final Report, Period June 1975-April 1977*
 000663
 000221
 000658
 000659
 000660
 000096
 000204
 000224
 000500
 000067
 000295
 000062
 000726
 000758
 000404
 000109
 000218
 000112
 000113
 000760
 000769
 000776
 000186
 000193
 000485
 000071
 000559
 000560
 000685
 000172
 000306
 000452
 000508
 000023
 000401
 000470
 000432
 000040
 000430
 000515
 000516
 000517
 000640
 000135
 000480
 000003
 000003
 000218
 000078
 000167
 000168
 000234
 000543
 000616
 000708
 000001
 000145
 000182
 000239
 000312
 000313
 000434
 000503
 000622
 000629
 000682
 000696
 000719
 000758
 000239
 000532
 000401
 000051
 000396
 000430
 000516
 000002
 000012
 000013
 000017
 000154
 000185
 000189
 000221
 000224
 000232
 000248
 000298

PERMUTED TITLE INDEX

Methanol Fuel Modification for Highway Vehicle Use. Final Report 000342
 I Comprehensive Human Resources Data System. Task 8, Final Report* Development and Application of the Phase 000346
 of Waste Heat in Trucks for Increased Fuel Economy. Final Report* #Utilization 000369
 #A Fuel Vapor Injection/Igniter System. Final Report* 000373
 Components for a Flywheel Powered Converter Vehicle. Final Report. Phase I* #Evaluation of Selected Drive 000381
 Motor Vehicle Storage of Hydrogen Using Metal Hydrides. Final Report* 000524
 #Near-Term Electric Vehicle Program: Phase 1. Final Report* 000550
 #Near-Term Electric Vehicle Program: Phase 1. Final Report* 000566
 #Forecasts: Quantities and Long-Term Marginal Prices. Final Report. Volume I* #Fuel and Energy Price 000597
 #Fuel and Energy Price Forecasts: Final Report. Volume II - Data Base* 000598
 Combustion Engine for Automotive Vehicles, Task II. Final Report* Test on Compounding the Internal 000616
 #Driver Aid and Education Test Project. Final Report* 000666
 S. Tank Vessels Carrying Oil in Foreign Trade and #Final Environmental Impact Statement: Regulations for U. 000681
 Action and Federal Expenditures Related to the #System Plan of the U.S. Railway Association* 000758
 Needs* #Airline #Financial Performance 1976-1977: A Look at Earnings and 000011
 Months Ended December 31, 1975* #Class I Railroads: #Financial and Operating Statistics for the Twelve 000330
 #RV #Financial Facts* 000515
 #Airline Equipment Needs and Financing Through 1985* 000133
 for Automobile Propulsion. Volume 1. Overview and Findings* #Energy Storage Systems 000063
 Gasoline from the Mandatory Petroleum Allocation and #Findings and Views Concerning the Exemption of Motor 000221
 #Ridesharing Behavior: A Review of Recent Findings* 000287
 Fuels from the Mandatory Petroleum #Preliminary Findings and Views Concerning the Preemption of Kerojet 000658
 Gasoline from the Mandatory Petroleum Allocation and #Findings and Views Concerning the Exemption of Motor 000659
 of the U.S. Supplemental Air Carriers, Calendar 1963 - Fiscal 1975* Domestic and International Operations 000132
 #Local Service Carriers Passengers Enplanements: Fiscal Years 1976 and 1975* 000137
 #Trunkline Carrier Domestic Passenger Enplanements: Fiscal Years 1976 and 1975* 000138
 #The United States Budget in Brief - Fiscal Year 1978* 000207
 Annual Report of the Interstate Commerce Commission, #U.S. Dept. of Transportation Fiscal Year Ending September 30, 1977* #91st 000323
 #U.S. Department of Transportation. 10th Annual Report: #U.S. Dept. of Transportation Fiscal Year 1979 Budget in Brief* 000674
 #Aviation Forecasts - Fiscal Year 1976* 000675
 #Current Aviation Statistics: Air Traffic Activity, #Fiscal Years 1978-1989* 000683
 Emission. Final Report, Phase 2, #Wall Quench and #Fiscal Year 1976* 000687
 #Report on the Aspects of Automotive #Flammability Limit Effects on Exhaust Hydrocarbon 000224
 Gas as a Primary Vehicular Fuel for a Public Utility #Fleet Operations on Transportation Energy Conservation* 000075
 #Uncertainties in Estimates of #Fleet Owner Marketing Handbook, Number Four* 000225
 #Dynamic Models of the U.S. Automobile #Fleet* #Use of Natural 000259
 Report* #Fleet Owner Fuels and Lubricants Survey* 000400
 #Characteristics of Automotive #Fleet Average Fuel Economy: A Statistical Evaluation* 000509
 of 1,000 Gross Tons and Over as of December #Merchant #Fleet Test of Re-Refined Oil. First Annual Progress 000728
 #A Statistical Analysis of the World's Merchant #Fleets in the United States: 1966-1977* 000576
 Fleets: The Potential for Alternative Technologies in #Fleets of the World: Oceangoing Steam and Motor Ships 000642
 Fleets Operated by Corporations and #Light Duty Highway #Fleets Showing Age, Size, Speed, and Draft by Frequency 000643
 Traffic, Revenue, Yield, Enplanements and Average On- #Fleets Operated by Corporations and State and Local 000744
 through December 1976* #Monthly #Fleets: The Potential for Alternative Technologies in 000744
 #Management by Objectives Program of the #Florida Motor Gasoline Consumption: January 1968 000135
 #Emissions and Fuel Economy of the Turbulent #Florida Department of Transportation* 000227
 in 1974 by FCC Regulated Pipelines: Geographic #Flow System for European 4-Cyl Engines* 000203
 System* #Energy #Flow Patterns and Intercompany Relationships* 000222
 #System #Flow Patterns for 1975* 000345
 #The Drag Related #Flow Chart. Phase I: Comprehensive Human Resources Data 000347
 #Urban Commodity #Flow Field Characteristics of Trucks and Buses* 000396
 #Evaluation of Automotive Fuel #Flow* 000449
 #Update to the National Energy Accounts: Energy #Flow* 000540
 #Update to the National Energy Accounts: Energy #Flows in the U.S., 1973 and 1974. Volume II. Program 000210
 #Forecasting Freight #Flows in the U.S., 1973 and 1974. Volume I: Methodology* 000211
 Electrical Transmission System. #Study of Heat Engine/ #Flows Using a Disaggregate Freight Demand Model* 000537
 Electrical Transmission System. #Study of Heat Engine/ #Flywheel: Hybrid Propulsion Configuration with 000012
 #1977 #Flywheel: Hybrid Propulsion Configuration with #Flywheel Technology* Symposium Proceedings* 000013
 Application. Volume 1: System Description #Battery #Flywheel Hybrid Electric Power System for Near Term 000119
 of a High Performance and Lightweight Hybrid #Composite #Flywheel/Battery Powered Electric Vehicle Drive* 000166
 #Composite #Flywheel Development (January 1 - March 31, 1977)* 000272
 #Composite #Flywheel Development (April 1 - June 30, 1977)* 000315
 * #Evaluation of Selected Drive Components for a #Flywheel Powered Converter Vehicle. Final Report. Phase I 000316
 Personal Vehicle* #Flywheel/Heat Engine Power for an Energy-Economic #Flywheel Vehicle for Postal Service Applications* 000381
 #Electric- #Flywheel for Energy Storage* 000382
 and Technical Feasibility Study for Energy Storage #Composites #Flywheel Vehicle for Postal Service Applications* 000477
 Regulations. Volume 1 #Report of the Presidential Task #Economic #Flywheel for Energy Storage* 000532
 #Work- #Emissions, and Power Characteristics of the 1975 #Force on Reform of Federal Energy Administration 000543
 #Multi-Objective Function Analysis of ERDA #Forecast-2, Year-2000 Scenario* 000503
 #Assessment and #Forecast of Marine Fuels Price and Availability* 000526
 #Terminal Area #Forecast - 1978-1988* 000393
 #Third Annual PAA #Forecast Conference Proceedings* 000125
 and Weekend Travel Phase II. Weekend #Statewide Travel #Forecasting Procedures Including Activity Allocation 000556
 #Use of #Forecasting Models in Transportation Planning* 000684
 of the Cost Impact Study to Include Interactions in the #Forecasting of General Aviation Activity. Volumes I-IV* 000685
 Projection of Cargo Activity at U.S. Air Hubs* #Forecasting Models for Air Freight Demand and 000066
 Future Research* #Aggregate Auto Travel #Forecasting: State of the Art and Suggestions for 000186
 #Transportation #Forecasting* 000384
 #New Approaches to Travel #Forecasting* 000408
 Demand Model* #Travel Demand #Forecasting* 000446
 Patronage in the NYC - Buffalo Corridor: Models and #Forecasting Freight Flows Using a Disaggregate Freight 000458
 #Forecasts. Volume III* #Intercity Rail #Forecasting* 000537
 #Forecasts of Converter Airlines Activity* 000148
 000174

PERMUTED TITLE INDEX

#Development of A Methodology to Allocate Liquid Fossil Fuel Consumption by County* 000256
 #A Synthesized Engine Oil Providing Fuel Economy Benefits* 000257
 #Use of Natural Gas as a Primary Vehicular Fuel for a Public Utility Fleet* 000259
 Utilization Program* #Highway Fuel Consumption Computer Model: Version 1* 000262
 #Passenger Car Fuel Economy in Short Trip Operation: Alternative Fuels 000273
 #Methanol: Its Synthesis, Use as a Fuel, Economics, and Hazards (Excerpts)* 000276
 #An Overall Design Approach to Improving Passenger Car Fuel Economy* 000288
 of Alternatives for Reducing Automobile Emissions and Fuel Consumption* in the SCAG Region: An Evaluation 000297
 #Diesel Fuel Properties and Engine Performance* 000300
 #Survey of Driver Aid Devices for Improved Fuel Economy* 000301
 #Railroads and the Environment: Estimation of Fuel Consumption in Rail Transportation. Volume I: 000307
 Freight #Railroads and the Environment: Estimation of Fuel Consumption in Rail Transportation. Volume II - 000308
 #Computer Simulations of Emissions and Fuel Economy* 000335
 #Methanol Fuel Modification for Highway Vehicle Use. Final Report* 000342
 Single-Shaft Ceramic Gas-Turbine Engines and Resulting Fuel Economy in a Compact Car* #Analysis of Regenerated 000350
 #Methanol as an Automotive Fuel with Special Emphasis on Methanol-Gasoline Blends* 000361
 #Utilization of Waste Heat in Trucks for Increased Fuel Economy. Final Report* 000369
 #A Fuel Vapor Injection/Igniter System. Final Report* 000373
 #A Procedure for Estimating Automobile Fuel Consumption on Congested Urban Roads* 000375
 of the 1975 Datsun 119-CID Automotive Engine-- Concise Description of Auto Fuel Economy and Performance in Recent Model Years* 000386
 of the 1975 Ford 140-CID Automotive Engine-- #Fuel Consumption, Emissions, and Power Characteristics 000392
 Experience, 1974-1977 Model Year Cars* #A Comparison of Fuel Consumption, Emissions, and Power Characteristics 000393
 #Development of a System of Comparable Car Classes for Fuel Economy Results from EPA Tests and Actual In-Use 000404
 #Directory of Diesel Fuel Economy Labeling* 000405
 #Optimizing Engine and Car Design for Fuel Stations and Authorized Mercedes-Benz Dealers* 000411
 a Diesel Engine Using Low- and Medium-Energy Gases as a Fuel Economy and Emissions* 000413
 #Light Duty Automotive Fuel Supplement (Fusigation)* Characteristics of 000423
 Combustion Products: A Guide to Evaluation #Fuels and Fuel Economy ... Trends Through 1978* 000441
 #Clean Fuel Additives for Highway Vehicles and Their 000444
 Progress Report for Period May 1, 1977 - #Passenger Car Fuel from Coal is Goal of U-Gas Process* 000486
 #Uncertainties in Estimates of Fleet Average Fuel Economy in Short Trip Operation. Technical 000494
 #Engine Developments and Agricultural Equipment Fuel Economy: A Statistical Evaluation* 000509
 #DoD Energy R & D. Part II: Military Fuel Consumption Trends* 000520
 #Engine Control Optimization for Best Fuel Options--Performance and R & D Implications* 000530
 #Evaluation of Automotive Fuel Economy with Emission Constraints* 000534
 #Systems Study of Two Synthetic Transportation Fuel Flowmeters* 000540
 #Diesel Fuel Options* 000568
 #Automotive Fuel Oils, 1977* 000572
 #Transportation, Trucks and Fuel Economy (Selected SAE Papers 1965 - 1975)* 000585
 Term Marginal Prices. Final Report. Volume I* Fuel Conservation* 000596
 II - Data Base* #Fuel and Energy Price Forecasts: Quantities and Long- 000597
 #Long Term Energy Alternatives Propulsion: Synthetic Fuel and Energy Price Forecasts: Final Report. Volume 000598
 #Experimental Evaluation of Premixing-Prevapourizing Fuel Versus Battery/Electric System* 000599
 Ten-Year Supply-Demand Profiles for Mineral and Fuel Injection Concepts for a Gas Turbine Catalytic 000610
 Potential for Motor Vehicle Fuel Economy Improvement: Fuel Commodities (1966-75)* in the U.S. Economy: 000671
 Panel Report* #Study of Potential for Motor Vehicle Fuel Economy Test Procedures Panel Report* #Study of 000676
 #Report* #Study of Potential for Motor Vehicle Fuel Economy Improvement: Fuel Economy Test Procedures 000676
 Panel Report* #Study of Potential for Motor Vehicle Fuel Economy Improvement: Safety Implications Panel 000677
 Congress* #Study of Potential for Motor Vehicle Fuel Economy Improvement: Air Quality and Emissions 000678
 Report* #Automotive Fuel Economy Program: Second Annual Report to the 000695
 Safety Literature* #Automotive Fuel Economy Contractors' Coordination Meeting: Summary 000697
 Inertia Increment and Power Setting on Emissions and Fuel Economy for Motorcycles. Technical Support Report 000711
 #Diesel Fuel and Gasoline Conservation Act of 1977* 000720
 #How Passenger Car Maintenance Affects Fuel Economy and Emissions* 000748
 ICE/Battery-Electric Hybrid with Low Emissions and Low Fuel Consumption Capability* #An Experimental 000771
 Emissions, Fuel Economy, and Driveability of Vehicles Fueled with Alcohol-Gasoline Blends* #Exhaust 000096
 #Comparative Automotive Engine Operation When Fueled with Ethanol and Methanol* 000190
 Option* #Hydrogen- Fueled Railroad Motive Power Systems, A Feasibility 000234
 of a Catalytic Reactor with Propane, Diesel, and Jet A Fuels for Transportation: Implications of the Broad-Cut 000030
 #Performance and Emissions 000031
 #Performance of Gasoline and Diesel Fuels Produced from Coal Synchrude* 000056
 #Alternative Fuels and Intercity Trucking* 000233
 Car Fuel Economy in Short Trip Operation: Alternative Fuels Utilization Program* #Passenger 000273
 Status of Alternative Automotive Power Systems and #Current 000363
 #Fleet Owner Fuels and Lubricants Survey* 000400
 #Status of Alcohol Fuels Utilization Technology for Highway Transportation* 000435
 Combustion Products: A Guide to Evaluation of Their Fuels and Fuel Additives for Highway Vehicles and Their 000444
 and Research Investigation of Methanol and Methyl Fuels* #Characterization 000488
 #Assessment and Forecast of Marine Fuels Price and Availability* 000556
 #Volumes and Transportation Costs of Fossil Fuels Shipped Between Census Regions* 000570
 #Aviation Turbine Fuels, 1977* 000574
 #Identification of Probable Automotive Fuels Composition: 1985-2000 and Executive Summary* 000592
 Vessels Engaged in #United States Foreign Trade: Bunker Fuels. Oil and Coal Laden in the United States on 000638
 #Program Planning Document: Highway Vehicle Alternative Fuels Utilization Program (AFUP)* 000653
 #Alternative Fuels Utilization Report* 000654
 Findings and Views Concerning the Exemption of Kerojet Fuels from the Mandatory Petroleum Allocation and Price 000658
 #Alcohol Fuels Program Plan* 000666
 Yearbook: 1975. Volume 1. Metals, Minerals, and Fuels* 000669
 #1976 National Travel Survey: Full Year Report* #Minerals 000670
 Low- and Medium-Energy Gases as a Fuel Supplement (Fusigation)* Characteristics of a Diesel Engine Using 000723
 Implications* #Multi-Objective Function Analysis of ERDA Forecast-2, Year-2000 Scenario 000725
 in Continuous Combustion Systems* #Airline Demand Functions in the North Atlantic and Their Pricing 000604
 Program. The Distribution of Capital Grant #Fundamental Characterization of Alternate Fuel Effects 000208
 #Engines and Energy-- Funds for Rail Rehabilitation and Modernization, 1965- 000710
 #Electric Vehicles in Germany - Present and Future Trends* 000010
 Future* 000048

PERMUTED TITLE INDEX

#Analysis of Past and Expected Future Trends in U.S. Energy Consumption, 1947-2000* 000062
 IV: Task III-Efficiency Improvements, Task IV-Industry Future* in the Marine Transportation Industry. Volume 000082
 Power Industry* Future Population of Electric Vehicles on the Electric 000108
 #Urban Applications and Energy Impacts of Future Electric Cars* 000279
 #Impacts of Future Use of Electric Cars in U.S. Cities* 000281
 Forecasting: State of the Art and Suggestions for Future Research* #Aggregate Auto Travel 000408
 Volume 4: Efficiency Improvements and Industry Future*Energy Study of Railroad Freight Transportation. 000426
 Requirements for #Power for the MTA: An Examination of Future Ridership, Service, and Electric Power 000508
 #Study of Future Paratransit Requirements* 000743
 Development Plan: Electric Vehicle Systems, FY 1978* #Environmental 000195
 Plan (EDP): Transportation Energy Conservation, FY 1977* #Environmental Development 000647
 Summary and Status of Environmental Development Plans, FY 1978* #Environmental Development Plan (EDP): 000651
 #Battery and Electrochemical Systems Program Summary: FY 1977* 000753
 #Field Evaluation of Miles-Per-Gallon Meters* 000051
 Fuel Conservation Programs Could Save Millions of Gallons of Aviation Fuel. Report to the Congress by the 000246
 Information Program: An Evaluation of the PEA/EPA Gas Mileage Label and 1976 Gas Mileage Guide for New 000003
 An Evaluation of the PEA/EPA Gas Mileage Label and 1976 Gas Mileage Guide for New Car Buyers. Volume I: 000003
 Improvement Concepts* #Upgrading Automotive Gas Turbine Technology. An Experimental Evaluation of 000034
 Program. Final Annual Report for Period #Automotive Gas Turbine Ceramic Regenerator Design and Reliability 000154
 Truck* #Gas Emissions and Fuel Economy of the Light Duty Diesel 000209
 for Improving the Price Sensitivity of the PIES Oil and Gas Supply Curves* Documentation. Volume 6. Methodology 000216
 Volume 9. Methodology for Enabling the PIES Oil and Gas Supply Curves to Respond to Non-Constant Prices* 000217
 Activity to Oil and Natural Gas in the PEA Oil and Gas Supply Model* Volume 9. Allocation of Exploratory 000218
 Allocation of Exploratory Activity to Oil and Natural Gas in the PEA Oil and Gas Supply Model* Volume 9. 000218
 Geographic Flow Patterns and Intercompany #Natural Gas Transported in 1974 by FPC Regulated Pipelines: 000222
 Fleet* #Use of Natural Gas as a Primary Vehicular Fuel for a Public Utility 000259
 Advanced Catalysts and Catalyst Supports for Automotive Gas Turbine Engine Combustors. Part 1*One Atmosphere of 000290
 Compact #Analysis of Regenerated Single-Shaft Ceramic Gas-Turbine Engines and Resulting Fuel Economy in a 000350
 Abstracts* #Natural Gas: Marine Transportation (A Bibliography with 000368
 #Brittle Materials Design, High Temperature Gas Turbine. Volume 2: Ceramic Turbine Rotar Technology* 000402
 #Transporting Natural Gas from the Arctic: The Alternative Systems* 000406
 #Clean Fuel from Coal Is Goal of 7-Gas Process* 000486
 Turbine of the Department of Energy Baseline Automobile Gas-Turbine Engine* Performance of the Compressor-Drive 000544
 Lubricated Compliant Surface Bearing for an Automotive Gas Turbine Engine. I - Journal Bearing Performance*Air 000551
 Progress Report* #Baseline Gas Turbine Development Program. Eighteenth Quarterly 000561
 The Impact of the President's Proposed Gasoline Tax and Gas-Guzzler Tax on Gasoline Consumption* 000608
 #Premixing-Prevaporizing Fuel Injection Concepts for a Gas Turbine Catalytic Combustor* Evaluation of 000610
 Federal Actions* #Allocation of Natural Gas Under Energy Emergencies: Analysis of Selected 000622
 Annual Survey of Oil and Gas: 1976* 000639
 of a Diesel Engine Using Low- and Medium-Energy Gases as a Fuel Supplement (Fueigation)*Characteristics 000423
 #Demand Elasticities for Gasoline: Another View* 000004
 Engines: An Assessment of the Addition of Hydrogen to Gasoline as Compared to Other Techniques* in Automotive 000009
 Between the Primary Energy Consumption of Electric and Gasoline Powered Vehicles* #A Comparison 000018
 and Driveability of Vehicles Fueled with Alcohol- and Gasoline and Diesel Fuels Produced from Coed Synchrude* 000058
 #Behavior of Car Owners During the Gasoline Shortage* 000060
 #Demand for #Exhaust Emissions, Fuel Economy, 000096
 The Capitol Stock Adjustment Process and the Demand for Gasoline: Application of Commodity Hierarchy Theory* 000116
 #Fuel Consumption in European Passenger Cars Powered by Gasoline: A Market Share Approach* 000117
 Efficiency. A Report of an #Strategies for Reducing Gasoline, Diesel, and Direct Injection Stratified 000130
 #Travel Behavior Under Increases in Gasoline Consumption Through Improved Motor Vehicle 000141
 #A Study of the Demand for Gasoline Prices* 000157
 #Gasoline Demand by Owner Characteristics* 000165
 #Gasoline Consumption in Urban Traffic* 000198
 #Gasoline from the Mandatory Petroleum Allocation and Gasoline Consumption: January 1968 through December 1976 000205
 #Gasoline Consumption Among States* 000221
 #Gasoline Engine into a Diesel Engine for Passenger Car Gasoline Consumption Through Improved Motor Vehicle 000227
 #Gasoline Blends* #Methanol 000265
 #Gasoline Use by Automobiles* 000275
 #Gasoline Powered Utility Truck in Two Years of a Gasoline Engine into a Diesel Engine for Passenger Car 000361
 #Gasoline Price and Availability Upon Recreation Travel #Gasoline Blends* 000399
 #Gasoline Demand: An Economic Analysis of the EPCA New Gasoline Blends* 000415
 #Gasoline Consumption* #The Impact of the President's Proposed Gasoline Demand: An Economic Analysis of the EPCA New 000422
 #Gasoline Tax and Gas-Guzzler Tax on Gasoline Consumption #Gasoline Blends* 000436
 #Gasoline Rationing Plan* #Notice of Proposed Gasoline Demand: An Economic Analysis of the EPCA New 000607
 #Gasoline From the Mandatory Petroleum Allocation and Gasoline Rationing Plan* #The Impact of the President's 000608
 #Gasoline From the Mandatory Allocation and Price Gasoline Rationing Plan* #Notice of Proposed 000657
 #Gasoline Rationing Plan* #Economic Gasoline From the Mandatory Allocation and Price 000659
 #Gasoline Conservation Act of 1977* #Gasoline Rationing Plan* 000660
 #Gasoline* #Development Studies 000661
 Gasolines, Winter 1976-77* 000667
 Gasolines, Summer 1977* 000720
 Geographic Flow Patterns and Intercompany Relationships* 000741
 Germany - Present and Future* 000571
 Getting It Off the Shelf: A Methodology for Gasolines, Winter 1976-77* 000573
 Global and National Studies* 000222
 Global and National Studies* 000088
 Global Prospects 1985-2000* 000312
 Goal Determination Study* 000054
 Goal of N-Gas Process* 000039
 Goods in the PILOT Energy Model* 000765
 Goods* #Methodology 000089
 Goods Movement Demonstration Project Design Phases I 000486
 Goods Movement* 000045
 Goods Movement* 000121
 #Urban 000340
 #Factors Influencing the Demand for 000536
 #Urban 000732

PERMUTED TITLE INDEX

*Tourism and Vacation Travel: State and Local
 in Fleets Operated by Corporations and State and Local
 Rail Modernization Program. The Distribution of Capital
 and Hybrid Vehicle Program: Small Business Planning
 *Mathematical Model for the Design of
 Cost of Electric Vehicles* *On the Relationship between
 of the World: Oceangoing Steam and Motor Ships of 1,000
 *The Impact of the U.S. Energy Situation on High Speed
 *Reevaluation of
 Fleets Showing Age, Size, Speed, and Draft by Frequency
 *U.S. Energy and Economic
 *The Role of Travel Time Limits in Urban
 of the FEA/EPA Gas Mileage Label and 1976 Gas Mileage
 System (PIES) Documentation. Volume 14. A User's
 for Highway Vehicles and Their Combustion Products: A
 and 1975 National Surveys, Code Book and Processing
 *Factors, Trends, and
 Measures to Promote *State Energy Conservation Plans:
 Transportation Systems* *Mass Transit
 (Discussion)* *Design of Elevated
 *Energy Study of Autoated
 Impact of the President's Proposed Gasoline Tax and Gas-
 Energy Management (ESTEEM). A Fuel Economy Management
 *Energy Analysis:
 *Fleet Owner Marketing
 Airports (Quick Approximation Method)* *A
 *Motorcycling
 *Characteristics of Urban Transportation Systems: A
 Analysis and Comparison of Railroad and Truck Line-
 *Cost of Operating Refrigerated Trucks for
 *Methanol: Its Synthesis, Use as a Fuel, Economics, and
 A Guide to Evaluation of Their Potential Effects on
 *Notice of Proposed Rulemaking and Public
 with Electrical Transmission System. Phase II *Study of
 with Electrical Transmission System. Phase I: *Study of
 *Utilization of Waste
 Vehicle* *Plywheel/
 *Air Conditioning and
 *Energy Costs of
 *The Potential for
 *Demand for Gasoline: Application of Commodity
 *Driving and Energy Conservation
 of a Prototype Inductive Power Coupling for Electric
 Toll Roads*
 Proposing Legislation*
 Consumption and Engine Horsepower Projections for the
 *Recreational Vehicles: A Subject Bibliography from
 Titling and Registration: A Subject Bibliography from
 *A New Direction for the
 *Statistics with Application to
 for Near Term Devices and Strategies to Reduce
 *Methanol Fuel Modification for
 *Priority Analysis Procedure for Ranking
 *Status of Alcohol Fuels Utilization Technology for
 *Evaluation of Their *Fuels and Fuel Additives for
 *Intercity Freight Movement by Rail and
 Indexes for Evaluating Environmental Impacts of
 Programming* *Optimal
 *Optimum Staging of Projects in a
 *Federal-Aid
 *Federal-Aid Highway Act of 1976 and
 *Program Planning Document:
 AFOP)*
 *Fuel Economy ... A Subject Bibliography from
 Technologies in Fleets Operated by *Light Duty
 *Annotated Bibliography on
 *Suburban
 Secretary of Transportation *The Status of the Nation's
 Recommendations* *Tourist Traffic in Small
 *Federal Energy Reorganization:
 *Automobile Characteristics
 Recreation Vehicle *Facts and Trends 1977: 5th Annual
 *Travel Research Bibliography: A Bibliography of the
 Sector* *Fuel Consumption and Engine
 *Transit Costs During Peak and Off-Peak
 of Choice Theory to Residential Location and Related
 Code Book and Processing Guide* *Lifestyles and
 Economic Impact of Automobile Travel Cost Increases on
 *Energy Consumption, Income, and
 Choice Model* *Location,
 Application--A Status *The Development of a 150 kw (200
 Demand and Projection of Cargo Activity at U.S. Air
 Government Planning (A Bibliography with Abstracts)* 000006
 Governments* The Potential for Alternative Technologies 000744
 Grant Funds for Rail Rehabilitation and Modernization, 000710
 Grants* *Electric 000646
 Grids for Electric Vehicle Batteries* 000736
 Gross Vehicle Weight, Payload, Effective Range, and 000019
 Gross Tons and Over as of December 31, 1975* Fleets 000642
 Ground Transportation* 000236
 Ground Access to Airports* 000580
 Grouping as of December 31, 1976* the World's Merchant 000643
 Growth, 1975-2010* 000015
 Growth (A Postulated Urban Area Definition)* 000739
 Guide for New Car Buyers. Volume I: Executive Summary* 000003
 Guide* *Project Independence Evaluation 000215
 Guide to Evaluation of Their Potential Effects on Health 000444
 Guide* *Lifestyles and Household Energy Use: 1973 000473
 Guidelines Related to Trip Length* 000064
 Guidelines for Travel Demand Analyses of Program 000107
 Guidelines Versus a Consumer Orientation in Public 000439
 Guideway Structures for Light Rail Transit (Abridgment) 000070
 Guideway Transit (AGT) Systems* 000293
 Guzzler Tax on Gasoline Consumption* *The 000608
 Handbook* *Encouraging School Transportation Effective 000095
 Handbook for Combining Process and Input-Output Analysis 000100
 Handbook, Number Four* 000225
 Handbook for the Estimation of Airside Delays at Major 000481
 Handbook 1977* 000497
 Handbook for Transportation Planners* 000554
 Haul Work (Energy) Requirements* *An Engineering 000428
 Hauling Fresh Fruits and Vegetables* 000076
 Hazards (Excerpts)* 000276
 Health* Highway Vehicles and Their Combustion Products: 000444
 Hearing to Establish Contingency Gasoline Rationing Plan 000657
 Heat Engine/Plywheel: Hybrid Propulsion Configuration 000012
 Heat Engine/Plywheel: Hybrid Propulsion Configuration 000013
 Heat in Trucks for Increased Fuel Economy. Final Report* 000369
 Heat Engine Power for an Energy-Economic Personal 000382
 Heating Systems for Trucks* 000161
 Heavy Rail Transit Construction* 000762
 Helicopter Passenger Service in Major Urban Areas* 000164
 Hidden Waste 000364
 Hierarchy Theory* 000116
 Highlight Report. Volume XXI* 000484
 Highway Systems* of the Performance and Characteristics 000079
 *Highway Safety Effects of the Energy Crisis on U.S. 000110
 *Highway and Transit Programs: Message to the Congress 000114
 Highway Transportation Sector* *Fuel 000183
 Highway Safety Literature* 000229
 Highway Safety Literature* *Motor Vehicle 000230
 Highway Program* 000231
 Highway Fuel Consumption Computer Model: Version 1 000262
 Highway Traffic Analyses* 000267
 Highway Vehicle Use. Volume I: Technical Report. Volume 000302
 Highway Vehicle Use. Final Report* 000342
 Highway Improvement Projects* 000385
 Highway Transportation* 000435
 Highway Vehicles and Their Combustion Products: A Guide 000444
 Highway and Urban Transportation in the 1970's and 1980 000447
 Highway Capacity Manual: 1965 000448
 Highway* 000457
 Highway Alternatives* *Totality 000482
 Highway Safety Improvement Investments by Dynamic 000495
 Highway Plan* 000557
 Highway Act of 1976 and Highway Safety Act of 1976* 000629
 Highway Safety Act of 1976* 000629
 Highway Vehicle Alternative Fuels Utilization Program (000653
 Highway Vehicle Systems Contractors Coordination Meeting 000656
 Highway Statistics, Summary to 1975 000688
 Highway Statistics: 1976 000692
 Highway Safety Literature* 000698
 Highway Fleets: The Potential for Alternative 000744
 Highway Travel Exposure Research Methods* 000769
 Highways and Roads as Instruments of Land Use Change* 000348
 Highways: Conditions and Performance. Report of the 000699
 Historic Cities: Analysis, Strategies, and 000613
 Historical Perspective* 000001
 Historical Data Base* 000414
 Historical Review of Production and Shipments of the 000517
 Holdings of the Travel Reference Center* 000253
 Horsepower Projections for the Highway Transportation 000183
 Hours* 000523
 Household Decisions* *Application 000372
 Household Energy Use: 1973 and 1975 National Surveys, 000473
 Households* *The 000605
 Housing* 000270
 Housing, Auto Ownership and Mode to Work: A Joint 000371
 HP) Stirling Engine for Medium Duty Automotive 200547
 Hubs* *Forecasting Models for Air Freight 000384

PERNOTED TITLE INDEX

and Application of the Phase I Comprehensive
 *System Flow Chart, Phase I: Comprehensive
 *The Free Access Concept--A New Challenge to
 Transmission System. *Study of Heat Engine/Flywheel:
 *Transmission System. *Study of Heat Engine/Flywheel:
 Determination Study* *Electric and
 *Computer Simulation of an Advanced
 Workshop* *Proceedings of an Advanced
 Volume 1; System Description Volume *Battery-Flywheel
 *Development of a High Performance and Lightweight
 *A Pictorial Characterization of Worldwide Electric and
 *State-Of-The-Art Assessment of Electric and
 *Twelve State-of-the-Art Individual Electric and
 *Opportunity and Risk Assessment of the Electric and
 *The Design and Development of a
 *Baseline Tests of the Kordesch
 *Electric and
 Implementation of Public Law 94-413: The Electric and
 *Electric and
 of Federal Motor Vehicle Standards to Electric and
 *Recommended Performance Standards for Electric and
 Capability* *An Experimental ICE/Battery-Electric
 *Motor Vehicle Storage of Hydrogen Using Metal
 Automotive Storage of Hydrogen Using Modified Magnesium
 *Wall Quench and Flammability Limit Effects on Exhaust
 for an Automotive Gas Turbine Engine. I - Journal
 in Automotive Engines: An Assessment of the Addition of
 Prospects and Impacts* *The
 Feasibility Study* *Motor Vehicle Storage of
 *Automotive Storage of
 *First World
 Fuel Consumption Capability* *An Experimental
 Composition: 1985-2000 and Executive Summary*
 *A Fuel Vapor Injection/
 *A Variable-Displacement Spark-
 An Evaluation of the FEA/EPA Gas Mileage Label and
 Automotive Power Systems and Appendices* *Economic
 Economy and Emissions* *Economic
 the Electric Power Industry*
 Energy Crisis and Low-Income Americans: An Analysis of
 Resource Accounting Model for Automobile Technology
 Baseline Demands* *Computer-Based
 of *General Aviation Dynamics: An Extension of the Cost
 *Automotive Energy Forecasts:
 Ground Transportation* *The
 of the Phase I Comprehensive Human *The Distributional
 Attitudes* *The
 *New Batteries and Their
 *The Economic
 Guzzler Tax on Gasoline Consumption* *The
 Carrying Oil in Foreign Trade and *Final Environmental
 *Economic
 *The
 Energy Economy: A Realistic Appraisal of Prospects and
 Vehicle Data* *Recreational Travel
 *Urban Applications and Energy
 *Totality Indexes for Evaluating Environmental
 II: Projections of Energy Supply and Demand and Their
 Automotive Engines* *Trial Application of the Technology
 Transportation Policy* *A Progress Report:
 *Making Federal R and D Useful: A Case Study of the
 Hybrid *The First Annual Report to Congress on the
 *Getting It Off the Shelf: A Methodology for
 *Strategy For
 *Alternative Fuels for Transportation:
 Requirements with Increasing Diesel Car Population and
 Supplies and Alternative Vehicle Engines, 1985-2010:
 Passenger Car Demand for Diesel Fuel and Refining
 Considerations* *Roadway Decision-Making and
 *Social, Economic, and Environmental
 Part II: Military Fuel Options--Performance and R & D
 Functions in the North Atlantic and Their Pricing
 for Motor Vehicle Fuel Economy Improvement: Safety
 Demand, and Stocks of All Oils by P.A.D. Districts and
 Dynamics: An Extension of the Cost Impact Study to
 *The Energy Crisis and Low-
 Patterns, 1965-75* *Per Capita
 Region, by Divisions and States (Spring 1976 Survey of
 Persons in the United States *Consumer Income: Money
 Families and Persons in the United States and *Consumer
 *Energy Consumption,
 Economy for *The Effect of Dynamometer Inertia
 Efficiency and Physical Distribution *Analysis of the
 Volume 2. PHS Econometric Demand Model* *Project
 Human Resources Data System. Task 8, Final Report* 000346
 Human Resources Data System* 000347
 Human Factors* 000352
 Hybrid Propulsion Configuration with Electrical 000012
 Hybrid Propulsion Configuration with Electrical 000013
 Hybrid Vehicle Performance and Design Goal 000089
 Hybrid Electric-Powered Vehicle* 000120
 Hybrid Vehicle Interest and Capability Assessment 000163
 Hybrid Electric Power System for Near Term Application. 000166
 Hybrid Flywheel/Battery Powered Electric Vehicle Drive* 000272
 Hybrid Vehicles* 000349
 Hybrid Vehicles* 000466
 Hybrid Vehicle Test Reports. Volume I* 000467
 Hybrid Vehicle Research, Development and Demonstration 000507
 Hybrid-Electric Urban Transit Vehicle* 000535
 Hybrid Passenger Vehicle* 000589
 Hybrid Vehicle Program: Small Business Planning Grants* 000646
 Hybrid Vehicle Research, Development and Demonstration 000652
 Hybrid Vehicle Demonstration: 1978* 000655
 Hybrid Vehicles* *Applicability 000696
 Hybrid Vehicles* 000729
 Hybrid with Low Emissions and Low Fuel Consumption 000771
 Hydrides. Final Report* 000524
 Hydrides* 000545
 Hydrocarbon Emission. Final Report, Phase 2, October 1, 000224
 Hydrodynamic Air Lubricated Compliant Surface Bearing 000551
 Hydrogen to Gasoline as Compared to Other Techniques* 000009
 Hydrogen Economy: A Realistic Appraisal of 000177
 Hydrogen-Fueled Railroad Motive Power Systems, A 000234
 Hydrogen Using Metal Hydrides. Final Report* 000524
 Hydrogen Using Modified Magnesium Hydrides* 000545
 Hydrogen Energy Conference. Volumes I - III* 000740
 ICE/Battery-Electric Hybrid with Low Emissions and Low 000771
 Identification of Probable Automotive Fuels 000592
 Igniter System. Final Report* 000373
 Ignition Engine* 000498
 Impact of the FEA/EPA Fuel Economy Information Program: 000003
 Impact of Mass Production of Alternative Low Emissions 000046
 Impact of Diagnostic Inspection on Automotive Fuel 000055
 Impact of a Future Population of Electric Vehicles on 000108
 Impact and Options* *The 000160
 Impact Assessment* *Computer-Based 000176
 Impact of Selected Energy Conservation Technologies on 000179
 Impact Study to Include Interactions in the Forecasting 000186
 Impact of Price, Availability, and Efficiency* 000199
 Impact of the U.S. Energy Situation on High Speed 000236
 Impact of Energy Policies: Development and Application 000346
 Impact of Transit Line Extension on Residential Land Use 000485
 Impact of the Energy Shortage on Travel Patterns and 000552
 Impact on Electric Vehicles* 000563
 Impact of Automobile Travel Cost Increases on Households 000605
 Impact of the President's Proposed Gasoline Tax and Gas- 000608
 Impact Statement: Regulations for U.S. Tank Vessels 000681
 Impact of President Carter's Energy Program* 000716
 Impact of Travel on State Economies: 1976* 000727
 Impacts of Electric Cars* 000152
 Impacts* *The Hydrogen 000177
 Impacts: Review of Recreational Travel and Recreational 000252
 Impacts of Future Electric Cars* 000279
 Impacts of Future Use of Electric Cars in U.S. Cities* 000281
 Impacts of Highway Alternatives* 000482
 Impacts. (Also Executive Summary)* to Congress. Volume 000663
 Implementation Planning Process: Selected New 000099
 Implementation of the 1975 Statement of National 000151
 Implementation Process* 000313
 Implementation of Public Law 94-413: The Electric and 000652
 Implementing Federal Research* 000312
 Implementing Integrated Regional Transit* 000584
 Implications of the Broad-Cut Option* 000030
 Implications to Refining Operations* *Automotive Fuel 000049
 Implications for Transportation and State Tax Structures 000052
 Implications* *Potential 000053
 Implications for Energy Use - Some Economic 000128
 Implications in Transportation Planning* 000459
 Implications* *DoD Energy R & D. 000530
 Implications* *Airline Demand 000604
 Implications Panel Report* *Study of Potential 000677
 Imports into the United States, by Country: 1977* 000665
 Include Interactions in the Forecasting of General 000186
 Income Americans: An Analysis of Impact and Options* 000160
 Income: Regional and Metropolitan-Nonmetropolitan 000238
 Income and Education)* States and the North Central 000640
 Income and Poverty Status in 1975 of Families and 000640
 Income: Money Income and Poverty Status in 1975 of 000640
 Income, and Housing* 000270
 Increment and Power Setting on Emissions and Fuel 000711
 Incremental Cost and Trade-offs Between Energy 000539
 Independence Evaluation System (IES) Documentation. 000214

PERMUTED TITLE INDEX

Volume 12. A User's Guide* #Project
 Volume 6. Methodology for Improving the Price #Project
 Volume 8. Methodology for Enabling the PIES #Project
 Volume 9. Allocation of Exploratory Activity #Project
 Volume 13. Coal and Electric Utility #Project
 Volume I: The Integrating Model of the Project
 Volume I: The Integrating Model of the Project #Project
 Related Data Bases Extracted from the National
 Railroads of Class 1* #Totality
 Alternatives* #An
 Split Between Three Travel Modes* #An
 1973-74* #Changes in
 Volume I* #Twelve State-of-the-Art
 of the Performance and Characteristics of a Prototype
 Industries* #1978 U.S.
 U.S. Industrial Outlook with 5-year Projections for 200
 #Status of the Mineral
 Minerals and Materials for the United States Energy
 Reporting System. Volumes 1-4#Urban Mass Transportation
 Volume IV: Task III-Efficiency Improvements, Task IV-
 Task IV- #Energy Use in the Marine Transportation
 Population of Electric Vehicles on the Electric Power
 #Economies of Traffic Density in the Rail Freight
 Analysis of Marketing Trends in the Automotive Service
 Improvement Targets in the Transportation Equipment
 #The Automobile
 Study of Railroad Freight Transportation. Volume 2:
 Transportation. Volume 4: Efficiency Improvements and
 of Production and Shipments of the Recreation Vehicle
 #Evaluation of Maritime
 #Trinc's Blue Book of the Trucking
 States and Puerto Rico, January 1, 1977* #Mineral
 Fuel Economy for #The Effect of Dynamometer
 Technologies: Report of Technology Study Panel,
 Technology Study Panel, #The Need for and Development of
 Improved Motor Vehicle Efficiency. A Report of an
 Mileage Label and #Impact of the FEA/EPA Fuel Economy
 #TRISNET: Directory to Transportation Research
 #Transportation Statistical Data and
 #Motor Vehicle
 1977. Volume I* #Energy
 Volume II: Projections of Energy Supply #1977 Energy
 Volume III: Statistics and Trends of Energy #Energy
 Urban Transportation Planning: PLANPAC/BACKPAC. General
 #1974 National Transportation Study. Manual I: General
 1977 and Annual Summary* #Transportation Safety
 Passenger Cars Powered by Gasoline, Diesel, and Direct
 #A Fuel Vapor
 Experimental Evaluation of Premixing-Pre-vaporizing Fuel
 #1976
 #Energy Analysis: Handbook for Combining Process and
 #Revised
 #Impact of Diagnostic
 #Vanpooling
 #Joint Development:
 Their Potential for Bias Toward Vehicles of Particular #
 #Suburban Highways and Roads as
 #Regulating and
 #Strategy For Implementing
 Oriented Program Planning Study (MOPPS). Volume 1:
 Rebuilding City Centers: An Examination of Cedar-
 Evaluation System (PIES) Documentation. Volume I: The
 Studies* #Energy Supply-Demand
 #Energy
 #The Dollar, Energy and Labor
 Economic Modeling for Transportation Planning. Part I:
 Energy Availability* #Evaluation of
 An Extension of the Cost Impact Study to Include
 #Mode Shift Strategies to Effect Energy Savings in
 Fuel Conservation Measures by Motor Carriers in the
 Models and Forecasts. Volume III* #New York State
 #Alternative Fuels and
 #Energy Intensity of
 Efficiency and Physical Distribution Effectiveness in
 Conservation. Volume II: Analysis* #
 Conservation. Volume I: Executive Summary* #
 #Alternative Policies for Effecting
 FPC Regulated Pipelines: Geographic Flow Patterns and
 #Methodology for the Design of Urban Transportation
 in Freight Modal Choice: Delineating the Rail-Truck
 #Passenger Car Classification Using
 #Closed-Loop Control of
 Task II. Final #Feasibility Test on Compounding the
 Independence Evaluation System (PIES) Documentation. 000215
 Independence Evaluation System (PIES) Documentation. 000216
 Independence Evaluation System (PIES) Documentation. 000217
 Independence Evaluation System (PIES) Documentation. 000218
 Independence Evaluation System (PIES) Documentation. 000219
 Independence Evaluation System* (PIES) Documentation. 000220
 Independence Evaluation System (PIES) Documentation. 000220
 Index of Energy and Environmental Data Bases. Part I: 000071
 Indexes of Railroad Material Prices and Wage Rates: 000041
 Indexes for Evaluating Environmental Impacts of Highway 000482
 Individual Cost Minimizing Method of Determining Modal 000033
 Individual Travel Behavior During the Energy Crisis, 000341
 Individual Electric and Hybrid Vehicle Test Reports. 000467
 Inductive Power Coupling for Electric Highway Systems* 000079
 Industrial Outlook with 5-year Projections for 200 000641
 Industries* #1978 000641
 Industries: 1977* 000672
 Industry, 1975-90--A Preliminary Report* of Nonfuel 000014
 Industry Uniform System of Accounts and Records and 000029
 Industry Future* in the Marine Transportation Industry. 000082
 Industry. Volume IV: Task III-Efficiency Improvements, 000082
 Industry* #Impact of a Future 000108
 Industry* 000286
 Industry Through 1975* #An 000332
 Industry (SIC 37). Volume 1* #Energy Efficiency 000339
 Industry in 1976: An International Survey* 000357
 Industry Description* #Energy 000425
 Industry Future* #Energy Study of Railroad Freight 000426
 Industry* and Trends 1977: 5th Annual Historical Review 000517
 Industry Energy Consumption Profiles* 000593
 Industry: 1977 Edition* 000620
 Industry Surveys: Petroleum Refineries in the United 000673
 Inertia Increment and Power Setting on Emissions and 000711
 Inexhaustible Energy Resources Study* Energy Resource 000614
 Inexhaustible Energy Resource Technologies: Report of 000614
 Informal Transportation Research Board Workshop*Through 000141
 Information Program: An Evaluation of the FEA/EPA Gas 000003
 Information Resources* 000331
 Information* 000611
 Information and Cost Savings Act* 000627
 Information Administration Annual Report to Congress: 000662
 Information Administration Annual Report to Congress. 000663
 Information Administration Annual Report to Congress. 000664
 Information Manual* #Computer Programs for 000689
 Information* 000700
 Information Report: October, November, and December 000706
 Injection Stratified Charge Engines* in European 000130
 Injection/Igniter System. Final Report* 000373
 Injection Concepts for a Gas Turbine Catalytic Combustor 000610
 Inland Waterborne Commerce Statistics* 000028
 Input-Output Analysis* 000100
 Input-Output Tables for the United States: 1967* 000747
 Inspection on Automotive Fuel Economy and Emissions* 000055
 Institutional Issues in Urban Freight Consolidation* 000106
 Institutional Barriers* 000169
 Institutional Constraints and Potentials* 000196
 Institutional Factors in Transportation Systems and 000546
 Instruments of Land Use Change* 000348
 Insuring Pre-Arranged Ride Sharing* 000770
 Integrated Economic-Social-Environmental Planning* 000069
 Integrated Regional Transit* 000584
 Integrated Summary* #Market 000650
 Integrating Land Use and Transportation Planning in 000087
 Integrating Model of the Project Independence 000220
 Integrations to the Year 2000: Global and National 000054
 Intensity of Intercity Passenger Rail* 000417
 Intensity of an Electric Computer Railroad* 000489
 Interaction Between Urban Centers as a Potential Process 000319
 Interaction Between Rural Regional Transportation and 000533
 Interactions in the Forecasting of General Aviation 000186
 Intercity Transportation* 000008
 Intercity Freight Market. Volumes I and II* #Potential 000124
 Intercity Rail Patronage in the NYC - Buffalo Corridor: 000148
 Intercity Travel Data, 1975. Volume II* 000200
 Intercity Trucking* 000233
 Intercity Passenger Demand Models: State-of-the-Art* 000288
 Intercity Passenger Rail* 000417
 Intercity Freight Movement by Rail and Highway* 000457
 Intercity Freight Markets*and Trade-offs Between Energy 000539
 Intercity Passenger Transportation: Mode/Energy 000541
 Intercity Passenger Transportation: Mode/Energy 000542
 Intercity Energy Use* 000587
 Intercompany Relationships* Gas Transported in 1974 by 000222
 Interface Facilities* #An Experiment 000172
 Interface* 000601
 Interior Volume: A 1978 Up-Date* 000403
 Internal Combustion Engine Exhaust Emissions* 000500
 Internal Combustion Engine for Automotive Vehicles, 000616

PRINTED TITLE INDEX

- Methanol and Ethanol* #Proceedings: 000068
 Operating Cost and Performance Trends: Domestic and 000132
 #Proceedings of the Third 000192
 #Energy Use Management: Proceedings of the 000212
 #The Automobile Industry in 1976: An 000357
 Systems, Volumes I and II* #Proceedings of the Fourth 000478
 * 000591
 #Domestic and 000636
 #Profiles of 000686
 and Land Development: Societal Problems and 000243
 Volumes 1 and 2* #Proceedings of the 12th 000022
 September 30, 1977* #91st Annual Report of the 000323
 #An 000057
 of Travel Time to Economic Evaluation of Transport 000602
 #Optimal Highway Safety Improvement 000495
 #Design and Testing of Lithium/ 000126
 #Lithium Requirements for High-Energy Lithium-Aluminum/ 000127
 Cost Estimate for the Commercial Manufacture of Lithium/ 000619
 #1978 National Petroleum News Factbook 000470
 #Underground Utilities Construction: Annual Contractors 000496
 #Transportation #Pipeline and 000050
 #Institutional 000106
 #National Energy Transportation, Volume III: 000283
 #Railroad Electrification: The 000376
 Turbine Wheels: Phase II. Final Report, Period 000569
 of Economic Advisers Transmitted to the Congress 000017
 #Monthly Florida Motor Gasoline Consumption: 000206
 #Composite Flywheel Development (000227
 Refineries in the United States and Puerto Rico, 000315
 Analysis of Alternative Computing Patterns for New 000673
 of a Catalytic Reactor with Propane, Diesel, and 000383
 Systems on the Spatial Distributions of Population and 000031
 Potentials* #The Effects of Transportation 000773
 #Location, Housing, Auto Ownership and Mode to Work: A 000196
 Bearing for an Automotive Gas Turbine Engine. I - 000371
 #Some Urbanized Area 000551
 Systems Center Bibliography of Technical Reports: 000757
 and Reliability Program. Final Annual Report for Period 000016
 Air Carrier Traffic Statistics: 12 Months Ended 000154
 Profile of Airline Service in the 48 Contiguous States, 000134
 Diesel Technology Program: Final Report, Period 000136
 #Composite Flywheel Development (April 1 - 000298
 #U. 000316
 Findings and Views Concerning the Exemption of 000553
 #Materials Are the 000658
 #Baseline Tests of the 000755
 Application--A Status Report* #The Development of a 150 000589
 Program: An Evaluation of the FEA/EPA Gas Mileage 000547
 of a System of Comparable Car Classes for Fuel Economy 000003
 #The Dollar, Energy and 000405
 of Lithium/Metal Sulfide Batteries at Argonne National 000489
 #United States Foreign Trade: Bunker Fuels, Oil and Coal 000035
 #Effect of Energy Shortage and 000638
 Centers: An Examination of Cedar-Riverside #Integrating 000061
 Simulation Model: A Computer-Based Model for Exploring 000087
 Model for Exploring Land Use and Energy Relationships* #Land Use - Energy 000112
 #Workshop: A Manual for Exploring Relationships Between 000112
 Performance* #Directing the Evolution of Urban 000113
 #Energy, the Environment and 000140
 #Energy, the Environment, and 000162
 #Transportation and 000184
 #Suburban Highways and Roads as Instruments of 000185
 #New Frontiers for 000243
 #Impact of Transit Line Extension on Residential 000348
 #Transportation and 000387
 and Emissions Testing and Other Procedures for 1978 and 000485
 Report to Congress on the Implementation of Public 000761
 United States Congress, Pursuant to Section 3, Public 000437
 #Urban Mass Transportation Act of 1964 and Related 000652
 Preliminary Results* #Response of 000699
 Volume 1* #Cost and Design Study to Develop 000708
 #Review of Studies 000115
 the Addition of Hydrogen to Gasoline as Compared to 000201
 and Developing Transportation Facilities: What Can We 000295
 #Representation of Engine Data by Multi-Variate 000009
 and Transit Programs: Message to the Congress Proposing 000306
 #Factors, Trends, and Guidelines Related to Trip 000409
 Revenue, Yield, Enplanements and Average On-Flight Trip 000114
 #Factors and Trends in Trip 000664
 Year Ended December 31, 1975. Part 1: Railroads, Their 000135
 Energy Lithium-Aluminum/Iron Sulfide Batteries for Load- 000742
 #Manufacture of Lithium/Iron Sulfide Cells for Load- 000326
 #Projections of Automobile Use and Ownership Based on 000127
 #Projections of Automobile Use and Ownership Based on 000619
 #National Surveys, Code Book and Processing Guide* #Lifestyles and Household Energy Use: 1973 and 1975 000317
 000318
 000473

PERMUTED TITLE INDEX

*Design of Elevated Guideway Structures for
 *Gas Emissions and Fuel Economy of the
 *Projection of
 1978*
 Alternative Technologies in Fleets Operated by
 Vehicle Drive* *Development of a High Performance and
 *A Low NO(x)
 Report, Phase 2, October *Wall Quench and Flammability
 *An Investigative Study of Engine
 Definition)* *The Role of Travel Time
 *Results of Baseline Tests of the Lucas
 Analysis and Comparison of Railroad and Truck
 *Impact of Transit
 the Year Ended December 31, 1975. Part 4: Private Car
 of Alternative Station Spacings for Rapid Transit
 *Development of a Methodology to Allocate
 Behavior Toward Fuel-Efficient Vehicles: Report of the
 *Consumer Behavior Toward Fuel Efficient Vehicles:
 *Energy, the Environment and Land Use:
 Vehicles: A Subject Bibliography from Highway Safety
 A Subject Bibliography from Highway Safety
 Economy ... A Subject Bibliography from Highway Safety
 Laboratory: Summary Report for 1976* *Development of
 Propulsion* *Design and Testing of
 Iron Sulfide Batteries for Load-Leveling and Electric-
 Leveling and *Lithium Requirements for High-Energy
 *Lithium Requirements for Electric Vehicles Using
 Lithium-Water-Air Batteries*
 *The
 *Cost Estimate for the Commercial Manufacture of
 High-Energy Lithium-Aluminum/Iron Sulfide Batteries for
 Manufacture of Lithium/Iron Sulfide Cells for
 Abstracts)* *Tourism and Vacation Travel: State and
 Years 1976 and 1975*
 *Analysis of State and
 in Fleets Operated by Corporations and State and
 Joint Choice Model*
 *Application of Choice Theory to Residential
 *The 1978 Chrysler Torque Converter
 Report*
 *Car and
 *Airline Financial Performance 1976-1977: A
 *Closed-
 *Economic Impact of Mass Production of Alternative
 *An Evaluation of Alternative Power Sources for
 *The Energy Crisis and
 *A
 *Performance Characteristics of a Diesel Engine Using
 *An Experimental ICE/Battery-Electric Hybrid with
 ICE/Battery-Electric Hybrid with Low Emissions and
 *Fleet Owner Fuels and
 Gas Turbine Engine. I - Journal *Hydrodynamic Air
 *Results of Baseline Tests of the
 at Argonne National Laboratory: Summary Report for
 *Some Conditions of
 *Automotive Storage of Hydrogen Using Modified
 *Survey of Motorcycle Ownership, Usage and
 Transit Systems *Model for Cost-Effective
 *How Passenger Car
 Fuel Economy in Transportation Systems by Use of Energy
 *Encouraging School Transportation Effective Energy
 Effective Energy Management (ESTEEM). A Fuel Economy
 *Transportation System
 Conference. Volumes I and II* *Energy Use
 *Transportation System
 *Transportation Programming and
 Department of Transportation*
 *Issues and Actions for
 Concerning the Exemption of Motor Gasoline from the
 Concerning the Exemption of Kerojet Fuels from the
 Concerning the Exemption of Motor Gasoline from the
 Assessment of the Exemption of Motor Gasoline from the
 Carter's Energy Program* *The Planner's Energy Workshop: A
 Energy Utilization* *Stirling Engine Design
 *Highway Capacity
 Planning: PLANPAC/BACKPAC. General Information
 *1978 National Transportation Study.
 Leveling* *Cost Estimate for the Commercial
 *1977-78 Truck Trailer
 *Automotive Data Base for
 Transportation Survey - Traffic Patterns of Small
 Phase II. Final Report, Period January 1975 Through
 *Composite Flywheel Development (January 1 -
 and Energy Price Forecasts: Quantities and Long-Term
 Efficiency Improvements, Task IV- *Energy Use in the
 *Natural Gas:
 Light Rail Transit (Abridgment) (Discussion)* 000070
 Light Duty Diesel Truck* 000209
 Light Truck Population to Year 2025* 000379
 Light Duty Automotive Fuel Economy ... Trends Through 000441
 Light Rail Transit: State-of-the-Art Overview* 000703
 Light Duty Highway Fleets: The Potential for 000744
 Lightweight Hybrid Flywheel/Battery Powered Electric 000272
 Lightweight Car Diesel Engine* 000299
 Limit Effects on Exhaust Hydrocarbon Emission. Final 000224
 Limiting* 000057
 Limits in Urban Growth (A Postulated Urban Area 000739
 Linousine* 000590
 Line-Haul Work (Energy) Requirements* *An Engineering 000428
 Line Extension on Residential Land Use* 000485
 Lines* *Transport Statistics in the United States for 000328
 Lines (Abridgment) (Discussion)* *Evaluation 000490
 Liquid Waste Fuel Consumption by County* 000256
 Literature Search* *Consumer 000083
 Literature Review* 000122
 Literature Review* 000184
 Literature* *Recreational 000229
 Literature* *Motor Vehicle Titling and Registration: 000230
 Literature* *Fuel 000698
 Lithium/Metal Sulfide Batteries at Argonne National 000335
 Lithium/Iron Sulfide Batteries for Electric Vehicle 000126
 Lithium Requirements for High-Energy Lithium-Aluminum/
 Lithium-Aluminum/Iron Sulfide Batteries for Load-
 Lithium-Water-Air Batteries* 000127
 *Lithium Requirements for Electric Vehicles Using 000155
 Lithium-Water-Air Battery for Automotive Propulsion* 000241
 Lithium/Iron Sulfide Cells for Load-Leveling* 000619
 Load-Leveling and Electric-Vehicle Applications* for 000127
 Load-Leveling* *Cost Estimate for the Commercial 000619
 Local Government Planning (A Bibliography with 000006
 Local Service Carriers Passengers Explanations: Fiscal 000137
 Local Taxation of American Railroads* 000617
 Local Governments* for Alternative Technologies 000744
 Location, Housing, Auto Ownership and Mode to Work: A 000371
 Location and Related Household Decisions* 000372
 Lock-Up Clutch* 000074
 Locomotive Data Acquisition Package: Phase 1. Final 000002
 Locomotive Cyclopedic of American Practices* 000167
 Look at Earnings and Needs* 000011
 Loop Control of Internal Combustion Engine Exhaust 000500
 Low Emissions Automotive Power Systems and Appendices* 000046
 Low-Emission Automobiles* 000073
 Low-Income Americans: An Analysis of Impact and Options* 000160
 Low NO(x) Lightweight Car Diesel Engine* 000299
 Low- and Medium-Energy Gases as a Fuel Supplement (000423
 Low Emissions and Low Fuel Consumption Capability* 000771
 Low Fuel Consumption Capability* *An Experimental 000771
 Lubricants Survey* 000400
 Lubricated Compliant Surface Bearing for an Automotive 000551
 Lucas Linousine* 000590
 1976* *Development of Lithium/Metal Sulfide Batteries 000335
 Macroeconomic Stability in Multiregional Models* 000081
 Magnesium Hydrides* 000545
 Maintenance* 000242
 Maintenance of Rail Transit Vehicles in Urban Mass 000548
 Maintenance Affects Fuel Economy and Emissions* 000748
 Management - Third Year's Program* *Increased 000056
 Management (ESTEEM). A Fuel Economy Management Handbook* 000095
 Management Handbook* *Encouraging School Transportation 000095
 Management* 000143
 Management: Proceedings of the International 000212
 Management: State of the Art* 000344
 Management* 000427
 Management by Objectives Program of the Florida 000623
 Managing Development* 000283
 Mandatory Petroleum Allocation and Price Regulations. 000221
 Mandatory Petroleum Allocation and Price Regulations* 000658
 Mandatory Petroleum Allocation and Price Regulations: 000659
 Mandatory Allocation and Price Regulations* 000660
 Mandatory Energy Conservation Amendments to President 000718
 Manual for Exploring Relationships Between Land Use and 000113
 Manual* 000395
 Manual: 1965* 000448
 Manual* *Computer Programs for Urban Transportation 000689
 Manual I: General Information* 000700
 Manufacture of Lithium/Iron Sulfide Cells for Load- 000619
 Manufacturers Association Directory* 000671
 Manufacturing Assessment System* 000378
 Manufacturing Plants* of Transportation. Commodity 000635
 March 1977* Technique for Automotive Turbine Wheels: 000017
 March 31, 1977)* 000315
 Marginal Prices. Final Report. Volume I* *Fuel 000597
 Marine Transportation Industry. Volume IV: Task III- 000082
 Marine Transportation (A Bibliography with Abstracts)* 000368

REPORTED TITLE INDEX

	Assessment and Forecast of	Marine Fuels Price and Availability*	000556
	Evaluation of	Maritime Industry Energy Consumption Profiles*	000593
Stock Adjustment Process and the Demand for Gasoline: A	Measures by Motor Carriers in the Intercity Freight	Market Share Approach*	000117
	The Potential	Market, Volumes I and II* #Potential Fuel Conservation	000124
	Travel	Market for On-the-Road Electric Vehicles*	000336
Demand for Automobiles.	An Analysis of the Automobile	Market Objectives for Electric Vehicles*	000353
Demand for Automobiles.	An Analysis of the Automobile	Market Yearbook: 1976/1977*	000476
Demand for Automobiles.	An Analysis of the Automobile	Market: Modeling the Long-Run Determinants of the	000558
1: Integrated Summary*	of the Commercial Air Transportation System. Volume II:	Market: Modeling the Long-Run Determinants of the	000559
	Fleet Owner	Market: Modeling the Long-Run Determinants of the	000560
		Market Oriented Program Planning Study (MOPPS). Volume	000650
Through 1975*	An Analysis of	Market and Economic Analyses* the Energy Consumption	000737
Measure Consumer Transit Attitudes (Abridgment)*	Distribution Effectiveness in Intercity Freight	Marketing Handbook, Number Four*	000225
	Turbine	Marketing Plan to Accelerate the Use of Vanpools*	000269
	and Records and Reporting System. Volumes 1-4*	Marketing Trends in the Automotive Service Industry	000332
Power Systems and Appendices*	Economic Impact of	Marketing Approach Using Product Diffusion Knowledge to	000565
	Urban	Markets* offs Between Energy Efficiency and Physical	000539
	Urban	Mass Production Forging Technique for Automotive	000017
in Public Transportation Systems*	Effective Maintenance of Rail Transit Vehicles in Urban	Mass Transportation Industry Uniform System of Accounts	000029
Effective Maintenance of Rail Transit Vehicles in Urban	A Computer Program (POWERQ) for Power Requirements for	Mass Production of Alternative Low Emissions Automotive	000046
A Computer Program (POWERQ) for Power Requirements for	Assessment of Community Planning for	Mass Transportation: Options for Federal Assistance*	000434
Assessment of Community Planning for	Assessed Through February 5, 1976*	Mass Transit Guidelines Versus a Consumer Orientation	000439
Assessed Through February 5, 1976*	Indexes of Railroad	Mass Transit Systems*	000548
	Background	Mass Transit Vehicles*	000595
90--A	Demand and Supply of Nonfuel Minerals and	Mass Transit. Volume I: Summary*	000632
	Contractors' View on Optimizing	Mass Transportation Act of 1964 and Related Laws, as	000708
	Optimizing the Use of	Material Prices and Wage Rates: Railroads of Class 1*	000041
	Will There Be a	Material for States*	000043
2: Ceramic Turbine Rotar Technology*	Brittle	Materials for the United States Energy Industry, 1975-	000014
		Materials and Energy*	000129
Vehicle Batteries*	The Ton-Mile: Does It Properly	Materials and Energy in Transportation Construction*	000142
	Measure Consumer Transit Attitudes (Abridgment)*	Materials Crisis?*	000390
Marketing Approach Using Product Diffusion Knowledge to	Measure Consumer Transit Attitudes (Abridgment)*	Materials Design, High Temperature Gas Turbine. Volume	000402
in Rail Transportation. Volume II - Freight Service	Measurements* Estimation of Fuel Consumption	Materials Are the Key in Auto Weight Watching*	000755
	Measurements*	Mathematical Model for the Design of Grids for Electric	000736
	Measurements*	Measure Transportation Output?*	000228
	Measurements*	Measure Consumer Transit Attitudes (Abridgment)*	000565
Plans: Guidelines for Travel Demand Analyses of Program	Measurements*	Measurements*	000308
Market, Volumes I and II* #Potential Fuel Conservation	Measurements*	Measurements*	000760
Metropolitan Centers of SEA Economic Areas: #Synthetic	Measurements*	Measurements*	000032
Characteristics of a Diesel Engine Using Low-	Measurements*	Measurements*	000107
Development of a 150 kW (200 HP) Stirling Engine for	Measurements*	Measurements by Motor Carriers in the Intercity Freight	000124
Transportation Energy Conservation: Tools to	Measurements*	Measurements of Truck Operating Times Between the	000483
Highway Vehicle Systems Contractors Coordination	Measurements*	Medium-Energy Gases as a Fuel Supplement (Fungition)*	000423
Automotive Fuel Economy Contractors' Coordination	Measurements*	Medium Duty Automotive Application--A Status Report*The	000547
Directory of Diesel Fuel Stations and Authorized	Measurements*	Meet the National Objective*	000359
Motor Ships of 1,000 Gross Tons and Over as of	Measurements*	Meeting*	000656
Frequency	Measurements*	Meeting: Summary Report*	000697
	Measurements*	Mercedes-Benz Dealers*	000411
Summary Report for 1976*	Measurements*	Merchant Fleets of the World: Oceangoing Steam and	000642
	Measurements*	Merchant Fleets Showing Age, Size, Speed, and Draft by	000643
	Measurements*	Message to the Congress Proposing Legislation*	000114
	Measurements*	Metal Sulfide Batteries at Argonne National Laboratory:	000035
	Measurements*	Metal Hydrides. Final Report*	000524
	Measurements*	Metals, Minerals, and Fuels*	000670
	Measurements*	Meters*	000051
	Measurements*	Methanol (A Bibliography 1960-1977)*	000021
	Measurements*	Methanol and Ethanol*	000068
International Symposium on Alcohol Fuel Technology -	Measurements*	Methanol*	000190
Engine Operation When Fueled with Ethanol and	Measurements*	Methanol: Its Synthesis, Use as a Fuel, Economics, and	000276
Hazards (Excerpts)*	Measurements*	Methanol Fuel Modification for Highway Vehicle Use.	000382
Final Report*	Measurements*	Methanol-Gasoline Blends*	000361
Methanol as an Automotive Fuel with Special Emphasis on	Measurements*	Methanol as an Automotive Fuel with Special Emphasis on	000361
Methanol-Gasoline Blends*	Measurements*	Methanol and Methyl Fuels*	000488
Characterization and Research Investigation of	Measurements*	Methanol and Related Oxygenates to Gasoline*	000741
Development Studies on Conversion of	Measurements*	Methodology for Predicting the Demand for New	000121
Electricity-Using Goods*	Measurements*	Methodology. Phase I Research*	000149
	Measurements*	Methodology for the Design of Urban Transportation	000172
Interface Facilities*	Measurements*	Methodology* #Update to the National Energy Accounts:	000211
Energy Flows in the U.S., 1973 and 1974. Volume 1:	Measurements*	Methodology for Improving the Price Sensitivity of the	000216
Evaluation System (PIES) Documentation. Volume 6.	Measurements*	Methodology for Enabling the PIES Oil and Gas Supply	000217
Evaluation System (PIES) Documentation. Volume 8.	Measurements*	Methodology for Allocate Liquid Fossil Fuel Consumption	000256
by County*	Measurements*	Methodology for Near Term Devices and Strategies to	000302
Reduce Highway Vehicle Use. Volume I: #Evaluation	Measurements*	Methodology for Implementing Federal Research*	000312
Getting It Off the Shelf: A	Measurements*	Methodology for Comparing Modes in Urban Transport*	000416
	Measurements*	Methodology for Making a Quantitative Assessment of	000618
Passenger Transportation Alternatives*	Measurements*	Methyl Fuels*	000488
and Research Investigation of Methanol and	Measurements*	Metropolitan-Nonmetropolitan Patterns, 1965-75*	000238
Per Capita Income: Regional and	Measurements*	Metropolitan Centers of SEA Economic Areas: 1950, 1960,	000483
Synthetic Measures of Truck Operating Times Between the	Measurements*	Metropolitan Transportation Authority Facilities*Future	000508
Ridership, Service, and Electric Power Requirements for	Measurements*	Metrorail System. Volumes I and II (Appendices)*	000250
Study for a Wet Energy Assessment: The Washington, D.C.	Measurements*	Miami. Volume II. Urban Data: Milwaukee - Washington,	000097
Notes #Urban Data Book. Volume I. Urban Data: Atlanta -	Measurements*	Mid-Atlantic Region*	000440
The Energy Situation in the	Measurements*	Midwestern Railroads*	000506
Projections of 1980 Freight Demands for Selected	Measurements*	Migration Patterns, 1970-76*	000526
Work-Force	Measurements*	Mile: Does It Properly Measure Transportation Output?*	000228
	Measurements*	Mile Energy Consumption and Costs for Suburban Consumer	000746
Service Diesel Trains*	Measurements*	Mileage Guide for New Car Buyers. Volume II: Executive	000003
of the FRA/RPA Gas Mileage Label and 1976 Gas	Measurements*		

PERMUTED TITLE INDEX

Information Program: An Evaluation of the FEA/EPA Gas	Mileage Label and 1976 Gas Mileage Guide for New Car	000003
#Railroads and Their Operated	Mileage in the Several States As of December 31, 1974*	000042
#New EPA	Mileage Tests*	000118
#Field Evaluation of	Miles-Per-Gallon Meters*	000051
#A Preliminary Assessment of Empty	Miles Traveled by Selected Regulated Motor Carriers*	000072
#Study Design for a Method of Projecting Vehicle	Miles of Travel*	000510
Implications*	Military Fuel Options--Performance and R & D	000530
#DoD Energy R & D. Part II:	Millions of Gallons of Aviation Fuel. Report to the	000246
#Effective Fuel Conservation Programs Could Save	Milwaukee - Washington, Notes and Technical Appendixes*	000097
I. Urban Data: Atlanta - Miami. Volume II. Urban Data:	Mineral and Fuel Commodities (1966-75)*	000671
the U.S. Economy: Ten-Year Supply-Demand Profiles for	#Minerals in	000672
#Status of the	Mineral Industries: 1977*	000673
United States and Puerto Rico, January 1, 1977*	Mineral Industry Surveys: Petroleum Refineries in the	000014
Industry, 1975-90--A	Minerals and Materials for the United States Energy	000670
and Fuels*	Minerals Yearbook: 1975. Volume 1. Metals, Minerals,	000670
#Minerals Yearbook: 1975. Volume 1. Metals,	Minerals, and Fuels*	000671
Profiles for Mineral and Fuel Commodities (1966-75)*	Minerals in the U.S. Economy: Ten-Year Supply-Demand	000705
Three Travel Modes*	Mini-bus Profile*	000033
#An Individual Cost	Minimising Method of Determining Modal Split Between	000087
City Centers: An Examination of Cedar-Riverside in	Minneapolis* and Transportation Planning in Rebuilding	000475
#Analysis of Preference for	Mixed-Mode Transit*	000033
#An Individual Cost Minimising Method of Determining	Modal Split Between Three Travel Modes*	000292
#A Study of the Determinants of Freight	Modal Choice and the Value of Travel Time*	000334
Lane (Abridgment)*	Modal Choice*	000437
#An Experiment in Freight	Modal-Choice Analysis of an Exclusive Bus and Car-Pool	000601
#Dual	Modal Choice: Delineating the Rail-Truck Interface*	000005
Intercity Transportation*	Mode Transportation (A Bibliography with Abstracts)*	000008
#Investigation of the Feasibility of a Dual	Mode Shift Strategies to Effect Energy Savings in	000078
#Dual-	Mode Electric Transportation System*	000144
#Costs and Energy Efficiency of a Dual-	Mode Transportation*	000291
#Location, Housing, Auto Ownership and	Mode System*	000371
#The Bicycle as a Transportation	Mode to Work: A Joint Choice Model*	000454
#Analysis of Preference for Mixed-	Mode*	000475
#Intercity Passenger Transportation:	Mode Transit*	000541
#Intercity Passenger Transportation:	Mode/Energy Conservation. Volume II: Analysis*	000542
#Predicting Transporter's Choice of	Mode/Energy Conservation. Volume I: Executive Summary*	000555
Tripmakers*	Mode*	000691
#Nationwide Personal Transportation Study:	Mode of Transportation and Personal Characteristics of	000045
Personal Consumption of Goods in the PILOT Energy	Model*	000065
Allocation and Weekend Travel Phase II. Weekend Travel	Model* Travel Forecasting Procedures Including Activity	000112
#Land Use - Energy Simulation Model: A Computer-Based	Model for Exploring Land Use and Energy Relationships*	000112
and Energy Relationships* #Land Use - Energy Simulation	Model: A Computer-Based Model for Exploring Land Use	000176
#Computer-Based Resource Accounting	Model for Automobile Technology Impact Assessment*	000214
(PIES) Documentation. Volume 2. PIES Econometric Demand	Model* #Project Independence Evaluation System	000218
to Oil and Natural Gas in the PEA Oil and Gas Supply	Model* Volume 9. Allocation of Exploratory Activity	000220
System (PIES) Documentation. Volume I: The Integrating	Model of the Project Independence Evaluation System*	000226
#An Investigation of Fuel Economy Potential of Six 1976-	Model Vehicles*	000249
Testing and Other Procedures for 1978 and Later	Model Automobiles* Proposed Fuel Economy and Emissions	000262
#Highway Fuel Consumption Computer	Model: Version 1*	000307
in Rail Transportation. Volume I: Analytical	Model* The Environment: Estimation of Fuel Consumption	000309
#An Attitudinal	Model of Carpooling Behavior*	000311
#An Aggregate Supply	Model for Urban Bus Transit (Abridgment)*	000371
Auto Ownership and Mode to Work: A Joint Choice	Model* #Location, Housing,	000386
of Auto Fuel Economy and Performance in Recent	Model Years* #Concise Description	000408
from EPA Tests and Actual In-Use Experience, 1974-1977	Model Year Cars* #A Comparison of Fuel Economy Results	000514
Consideration of Attributes* #A Non-Compensatory	Model of Transportation Behavior Based on Sequential	000537
Freight Flows Using a Disaggregate Freight Demand	Model* #Forecasting	000548
Vehicles in Urban Mass Transit Systems*	Model for Cost-Effective Maintenance of Rail Transit	000558
Volume 1. The Wharton EPA Automobile Demand	Model* Run Determinants of the Demand for Automobiles.	000559
Analysis Using the Wharton E.P.A. Automobile Demand	Model*the Demand for Automobiles. Volume II: Simulation	000560
III: Appendices to the Wharton E.P.A. Automobile Demand	Model* of the Demand for Automobiles. Volume	000615
#A Stirling Engine Computer	Model for Performance*	000736
#Mathematical	Model for the Design of Grids for Electric Vehicle	000045
Batteries*	Modeling Personal Consumption of Goods in the PILOT	000258
Energy Model*	Modeling Consumers' Preferences for Transportation Modes	000319
#Comparison of Segmentations for	Modeling for Transportation Planning. Part I:	000558
Interaction #Physical Foundations for Socio-Economic	Modeling the Long-Run Determinants of the Demand for	000559
Automobiles. #An Analysis of the Automobile Market:	Modeling the Long-Run Determinants of the Demand for	000560
Automobiles. #An Analysis of the Automobile Market:	Modeling and Sizing for EV Simulation*	000731
Automobiles. #An Analysis of the Automobile Market:	Models in Transportation Planning*	000066
#Electrical Component	Models*	000081
#Use of Forecasting	Models and Forecasts. Volume III*	000148
Conditions of Macroeconomic Stability in Multiregional	Models: State-of-the-Art*	000288
Intercity Rail Patronage in the NYC - Buffalo Corridor:	Models for Transportation Problems. Part II: The Social	000320
#Intercity Passenger Demand	Models for Air Freight Demand and Projection of Cargo	000384
Physics for Modern Societies - The Role of the #Systems	Models of the U.S. Automobile Fleet*	000603
Activity at U.S. Air Hubs* #Forecasting	Modern Societies - The Role of the Cities*	000710
#Dynamic	Modernization Program. The Distribution of Capital	000710
#Derivation of Values of Time from Travel Demand	Modernization, 1965-1977*	000033
Problems. Part II: The Social Physics for	Nodes* #An Individual Cost Minimising	000258
Grant Funds for Rail Rehabilitation and #The DMTA Rail	Nodes* #Comparison of Segmentations	000358
of Capital Grant Funds for Rail Rehabilitation and	Nodes* #Urban Transportation	000416
Method of Determining Modal Split Between Three Travel	Nodes in Urban Transport*	000864
for Modeling Consumers' Preferences for Transportation	Nodes of Transportation*	000640
and Energy: The Potential Savings of Different	Money Income and Poverty Status in 1975 of Families and	000098
#Methodology of Comparing	Monitoring* #Effect of Automatic	000098
Energy Effects, Efficiencies, and Prospects for Various	Monitoring Error on Transit Schedule Adherence	000098
Persons in the United States and the #Consumer Income:		
Vehicle Monitoring Error on Transit Schedule Adherence		
Monitoring* #Effect of Automatic Vehicle		

PERMUTED TITLE INDEX

1969 through December 1976*

- *Consumer Air Carrier Traffic Statistics: 12 Statistics of Certified Route Air Carriers for 12 Financial and Operating Statistics for the Twelve Months Ended December 31, 1975*
- *Market Oriented Program Planning Study (Advanced Automotive Power Systems. Part 1: Transportation Issues in Consumer Hydrogen-Fueled Railroad
- *Monthly Truck Tonnage Report*
- *Monthly Petroleum Product Price Report*
- *Monthly Florida Motor Gasoline Consumption: January through June 30, 1977*
- *Monthly Florida Motor Gasoline Consumption: January through December 31, 1976*
- *Airport Activity Months Ended December 31, 1975*
- *Class I Railroads: (MOPPS). Volume 1: Integrated Summary*
- *Morphological System and System Analysis*
- *Motivation*
- *Motive Power Systems, A Feasibility Study*
- *Motor Carrier Statistical Summary*
- *Motor Carriers*
- *A Preliminary Assessment of Electric Vehicles from Motor-Driven Efficiency of Electric Vehicles from Motor Carriers in the Intercity Freight Market. Volumes
- *Motor Vehicle Efficiency. A Report of an Informal Motor Gasoline from the Mandatory Petroleum Allocation
- *Motor Gasoline Consumption: January 1968 through
- *Motor Vehicle Titling and Registration: A Subject Motor Carriers of Property, Year Ended December 31, 1976*
- *Motor Carriers*
- *Transport Statistics in the United States for the Year Ended December 31, 1975. Part 2: Plan. Technical Report*
- *An Advanced Electric Motor-Transmission System for Electric Vehicles: Development
- *Characterization Study of an Electric Motor-Transmission System for Electric Vehicles*
- *Characterization Study of an Electric Motor Vehicle Facts & Figures '78*
- *Motor Vehicle Data: 1977 Edition*
- *Motor Vehicle Factory Sales from Plants in U.S. & Canada
- *Motor Vehicle Storage of Hydrogen Using Metal Hydrides.
- *Motor Gasolines, Winter 1976-77*
- *Motor Gasolines, Summer 1977*
- *Motor Vehicles: 1973*
- *Motor Vehicle Safety Act of 1966*
- *Motor Vehicle Information and Cost Savings Act*
- *Motor Ships of 1,000 Gross Tons and Over as of December 31, 1975*
- *Motor Gasoline from the Mandatory Petroleum Allocation
- *Motor Gasoline from the Mandatory Allocation and Price
- *Motor Vehicle Fuel Economy Improvement: Fuel Economy
- *Motor Vehicle Fuel Economy Improvement: Safety
- *Motor Vehicle Fuel Economy Improvement: Air Quality and
- *Motor Vehicle Standards to Electric and Hybrid Vehicles*
- *Motorcycling Handbook 1977*
- *Motorcycle Ownership, Usage and Maintenance*
- *Motorcycle Statistical Annual*
- *Motorcycle Usage. Technical Support Report for Motorcycles. Technical Support Report for Regulatory
- *Motors Response to Proposed Fuel Economy and Emissions Movement Demonstration Project Design Phases I and II.
- *Movement by Rail and Highway*
- *Movement*
- *Movement*
- *Motor Profiles*
- *MTA: An Examination of Future Ridership, Service, and Multi-Objective Function Analysis of ERDA Forecast-2, Multi-Variate Least-Squares Regression*
- *Multiproject Scheduling for Transportation Construction
- *Multiregional Models*
- *Nation's Highways: Conditions and Performance. Report National and General Studies (A Bibliography with National Laboratory: Summary Report for 1976*
- *National Studies*
- *Energy National Index of Energy and Environmental Data Bases.
- *National Energy Plan: The Effects on Transportation*
- *National Transportation Policy*
- *A Progress National Energy Accounts: Energy Flows in the U.S., National Energy Accounts: Energy Flows in the U.S., National Energy Policy*
- *National Energy Policy*
- *National Transportation Statistics*
- *National Transportation Statistics (1965-1976)*
- *National Energy Plan*
- *National Truck Characteristic Report: 1974*
- *National Objective*
- *National Energy Transportation. Volume III: Issues and National Studies*
- *National Conference on the Effects of Energy National Energy Plan*
- *National Petroleum News Factbook Issue*
- *National Surveys, Code Book and Processing Guide*
- *National Traffic and Motor Vehicle Safety Act of 1966*
- *National Energy Plan*
- *National Transportation Study. Manual I: General National Transportation Study*
- *National Travel Survey: Full Year Report*
- *National Travel Expenditure Study: Summary Report*
- *National Conference on the "Effects of Energy National Transportation Study*
- *Nationwide Boating Survey*
- *Recreational Boating Nationwide Personal Transportation Study:
- *Nationwide Personal Transportation Study: Mode of Natural Gas in the PEA Oil and Gas Supply Model*

Freight Commodity Statistics: States for the Year Ended December 31, 1975. Part 2: Technical Report

*An Advanced Electric Motor-Transmission System for Electric Vehicles: Development

Characterization Study of an Electric Motor-Transmission System for Electric Vehicles

Characterization Study of an Electric Motor Vehicle Facts & Figures '78

Motor Vehicle Data: 1977 Edition

*Motor Vehicle Factory Sales from Plants in U.S. & Canada

*Motor Vehicle Storage of Hydrogen Using Metal Hydrides.

Motor Gasolines, Winter 1976-77

Motor Gasolines, Summer 1977

Motor Vehicles: 1973

Motor Vehicle Safety Act of 1966

Motor Vehicle Information and Cost Savings Act

Motor Ships of 1,000 Gross Tons and Over as of December 31, 1975

*Motor Gasoline from the Mandatory Petroleum Allocation

*Motor Gasoline from the Mandatory Allocation and Price

*Motor Vehicle Fuel Economy Improvement: Fuel Economy

*Motor Vehicle Fuel Economy Improvement: Safety

*Motor Vehicle Fuel Economy Improvement: Air Quality and

Motor Vehicle Standards to Electric and Hybrid Vehicles

Motorcycling Handbook 1977

Motorcycle Ownership, Usage and Maintenance

Motorcycle Statistical Annual

*Motorcycle Usage. Technical Support Report for Motorcycles. Technical Support Report for Regulatory

*Motors Response to Proposed Fuel Economy and Emissions Movement Demonstration Project Design Phases I and II.

Movement by Rail and Highway

Movement

Movement

Motor Profiles

MTA: An Examination of Future Ridership, Service, and Multi-Objective Function Analysis of ERDA Forecast-2, Multi-Variate Least-Squares Regression

*Multiproject Scheduling for Transportation Construction

Multiregional Models

Nation's Highways: Conditions and Performance. Report National and General Studies (A Bibliography with National Laboratory: Summary Report for 1976

National Studies

*Energy National Index of Energy and Environmental Data Bases.

National Energy Plan: The Effects on Transportation

National Transportation Policy

A Progress National Energy Accounts: Energy Flows in the U.S., National Energy Accounts: Energy Flows in the U.S., National Energy Policy

National Energy Policy

National Transportation Statistics

National Transportation Statistics (1965-1976)

National Energy Plan

National Truck Characteristic Report: 1974

National Objective

National Energy Transportation. Volume III: Issues and National Studies

National Conference on the Effects of Energy National Energy Plan

National Petroleum News Factbook Issue

National Surveys, Code Book and Processing Guide

National Traffic and Motor Vehicle Safety Act of 1966

National Energy Plan

National Transportation Study. Manual I: General National Transportation Study

National Travel Survey: Full Year Report

National Travel Expenditure Study: Summary Report

National Conference on the "Effects of Energy National Transportation Study

Nationwide Boating Survey

*Recreational Boating Nationwide Personal Transportation Study:

Nationwide Personal Transportation Study: Mode of Natural Gas in the PEA Oil and Gas Supply Model

*Road User and Property Taxes on Selected National Traffic and

*Merchant Fleets of the World: Oceangoing Steam and and

Findings and Views Concerning the Exemption of Environmental Assessment of the Exemption of Test Procedures Panel Report

Study of Potential for Implications Panel Report

Study of Potential for Emissions Panel Report

*Study of Potential for Applicability of Federal

*Survey of 1978

Regulatory Action

*And Power Setting on Emissions and Fuel Economy for Testing and Other Procedures for 1978 and

General Executive Summary

*Urban Goods

*Intercity Freight

*Factors Influencing the Demand for Goods

*Urban Goods

*People

Power for the Year-2000 Scenario

*Power for the

Representation of Engine Data by Programs

*Some Conditions of Macroeconomic Stability in of the Secretary of Transportation

The Status of the Abstracts

*Bus Transportation. Part 1. of Lithium/Metal Sulfide Batteries at Argonne Supply-Demand Integrations to the Year 2000: Global and

*Transportation-Related Data Bases Extracted from the Analyses of the

*Report: Implementation of the 1975 Statement of 1973 and 1974. Volume II. Program

Update to the 1973 and 1974. Volume I: Methodology

*Update to the

*Toward Establishing a

*Report to the Congress: An Evaluation of the

Transportation Energy Conservation: Tools to Meet the Problems

Energy Supply to the Year 2000: Global and Constraints on Transportation Systems

*Third

*Evaluating the

*1978

*Lifestyles and Household Energy Use: 1973 and 1975

*Analysis of the Proposed

*1974

*Catalog of Tabulations: 1974

*1976

*1976

*Fourth

*Urban Area Results of the 1974

in the Continental United States in 1973 and 1976: The Transportation Characteristics of School Children

*Transportation and Personal Characteristics of Volume 9. Allocation of Exploratory Activity to Oil and

PERMUTED TITLE INDEX

Pipelines: Geographic Flow Patterns and Intercompany Utility Fleet Abstracts*
 Selected Federal Actions*
 Foreign Trade and Foreign Tank Vessels that Enter the System, Volumes I and II (The Transportation Energy Conservation System*
 Powering*
 Business Energy Conservation Program: Progress Report
 the PIES Oil and Gas Supply Curves to Respond to on Sequential Consideration of Attributes*
 Energy Industry, 1975-90--A
 Application of Energy Storage Power Systems to Per Capita Income: Regional and Metropolitan The Changing Demographic and Economic Structure of Airline Demand Functions in the of Families and Persons in the United States and the Energy Supply and Demand in the Consumption and Conservation Policy Options in the Rail Passenger Statistics in the - Miami, Volume II, Urban Data: Milwaukee - Washington, Establish Contingency Gasoline Rationing Plan*
 Technical Progress Report for Period May 1, 1977 - Transportation Safety Information Report: October, Intercity Rail Patronage in the 2000 Scenario*
 Energy Conservation: Tools to Meet the National Transportation*
 Effect of Energy Shortage and Land Use on Automobile and Over as of December Merchant Fleets of the World: on Exhaust Hydrocarbon Emission, Final Report, Phase 2, Transportation Safety Information Report: Survey of State Travel
 Analysis of the Incremental Cost and Trade Specific Fuel Consumption*
 for Improving the Price Sensitivity of the PIES Volume 8. Methodology for Enabling the PIES Volume 9. Allocation of Exploratory Activity to Exploratory Activity to Oil and Natural Gas in the FEA A Synthesized Engine
 Engaged in United States Foreign Trade: Bunker Fuels. Annual Survey of Statement: Regulations for U.S. Tank Vessels Carrying Regulation of Domestic Crude Fleet Test of 80-Refined Diesel Fuel States, by Country: Supply, Demand, and Stocks of All 11, 1974*
 The Potential for Alternative Technologies in Plants and Vegetables*
 years 1975 and 1976*
 International Operations of Turbojet/Turboprop Aircraft Rail Passenger Transportation, Volume 2: Description of December 11, 1975*
 Economic Areas: 1950, Synthetic Measures of Truck Time Study, Executive Summary - Final Report on the Comparative Automotive Engine Passenger Car Fuel Economy in Short Trip 1977 - Passenger Car Fuel Economy in Short Trip Diesel Car Population and Implications to Refining Report on the Aspects of Automotive Fleet Cost and Performance Trends: Domestic and International Trends in Bus Transit Transit Planning and Public
 Hybrid Vehicle Research, Development and Demonstration Dynamic Programming*
 Over the Federal Emissions Driving Constraints*
 Transportation Construction*
 Emissions*
 Fuels for Transportation: Implications of the Broad-Cut The Potential for Transit as an Energy Saving and Low-Income Americans: An Analysis of Impact and
 Natural Gas Transported in 1974 by FPC Regulated Natural Gas as a Primary Vehicular Fuel for a Public Natural Gas: Marine Transportation (A Bibliography with Natural Gas from the Arctic: The Alternative Systems* Natural Gas Under Energy Emergencies: Analysis of Navigable Waters of the United States* Carrying Oil in Net Energy Assessment: The Washington, D.C. National Network (TECNET): A Summary Description*
 News*
 News Factbook Issues*
 Nickel-Zinc Cells for Electric Vehicles*
 Nickel-Zinc Battery: A Viable Alternative for Vehicle No. 1: Examination of Four Existing Scenarios*
 NO(x) Lightweight Car Diesel Engine*
 No. 6*
 Noise Control Act of 1972*
 Non-Constant Prices* Volume 8. Methodology for Enabling Non-Compensatory Model of Transportation Behavior Based Nonfuel Minerals and Materials for the United States Nonhighway Transportation*
 Nonmetropolitan Patterns, 1965-75*
 Nonmetropolitan Areas in the 1970's*
 North Atlantic and Their Pricing Implications*
 North Central Region, by Divisions and States (Spring Northeast United States - 1977*
 Northeast*
 Northeast Corridor: 1974-76*
 Notes and Technical Appendixes* 1. Urban Data: Atlanta Notice of Proposed Rulemaking and Public Hearing to November 10, 1977* Fuel Economy in Short Trip Operation, November, and December 1977 and Annual Summary*
 NYC - Buffalo Corridor: Models and Forecasts, Volume III Objective Function Analysis of ERDA Forecast 2, Year- Objectives*
 Objectives for Electric Vehicles*
 Objective Program of the Florida Department of Occupancy Rate*
 On-going Steam and Motor Ships of 1,000 Gross Tonn October 1, 1976 - September 30, 1977*
 October, November, and December 1977 and Annual Summary*
 Offsets: 1977-1978*
 Offsets Between Energy Efficiency and Physical Oil and Coolant Temperature on Diesel Engine Brake Oil and Gas Supply Curves*
 Oil and Gas Supply Curves to Respond to Non-Constant Oil and Natural Gas in the FEA Oil and Gas Supply Model*
 Oil and Gas Supply Model*
 Oil Providing Fuel Economy Benefits*
 Oil and Energy*
 Oil and Coal Laden in the United States on Vessels Oil and Gas: 1976*
 Oil in Foreign Trade and Foreign Tank Vessels that Oil Prices*
 Oil: First Annual Progress Report*
 Oils, 1977*
 Oils by P.A.D. Districts and Imports into the United Open Throttle Vehicle Performance*
 Operated Mileage in the Several States: As of December Operated by Corporations and State and Local Governments*
 Operating Refrigerated Trucks for Hauling Fresh Fruits Operating for Fuel Economy*
 Operating Cost and Performance Report for Calendar Operating Cost and Performance Trends: Domestic and Operating Systems*
 Operating Statistics for the Twelve Months Ended Operating Times Between the Metropolitan Centers of FEA Operation and Effects of Daylight Saving Time*
 Operation When Fueled with Ethanol and Methanol*
 Operation: Alternative Fuels Utilization Program*
 Operation: Technical Progress Report for Period May 1, Operation: Automotive Fuel Requirements with Increasing Operations on Transportation Energy Conservation*
 Operations of the U.S. Supplemental Air Carrier, Operations: 1960-1974*
 Operations*
 Opinion Survey on Energy and Transportation*
 Opportunities and Strategies for Energy Conservation*
 Opportunity and Risk Assessment of the Electric and Optimal Highway Safety Improvement Investments by Optimization of an Experimental Engine Control System Optimization for Best Fuel Economy with Emission Optimizing Materials and Energy*
 Optimizing the Use of Materials and Energy in Optimizing Engine and Car Design for Fuel Economy and Optimum Scheduling of Projects in a Highway Plan*
 Options*
 Options*
 Options*
 Options*
 The Energy Crisis

PERMUTED TITLE INDEX

#Urban Mass Transportation: Options for Federal Assistance* 000434
 #DoD Energy R & D. Part II: Military Fuel Options--Performance and R & D Implications* 000530
 #Systems Study of Two Synthetic Transportation Fuel Options* 000568
 Energy Consumption and Conservation Policy #Transportation 000609
 #Department of Energy Organization Act* 000714
 #Department of Energy Organization Act* 000721
 #Department of Energy Organization Act* 000722
 #Social Organization and Transportation Energy: An Annotated 000752
 #Mass Transit Guidelines Versus a Consumer Orientation in Public Transportation Systems* 000439
 Integrated Summary* #Market Oriented Program Planning Study (MOPPS). Volume 1: 000650
 #The Origin and Uses of the Economy Van* 000197
 #Developing Freight Origin-Destination Data for Use in Freight Planning* 000538
 Vehicle Engines, 1985-2010: Implications for #The Outlook for Automotive Fuel Supplies and Alternative 000052
 #1978 U.S. Industrial Outlook with 5-year Projections for 200 Industries* 000641
 #Proceedings: 1978 Travel Outlook Forum* 000724
 Analysis: Handbook for Combining Process and Input- Output Analysis* #Energy 000100
 #The Ton-Mile: Does It Properly Measure Transportation Output?# 000228
 Economy* #Revised Input- Output Tables for the United States: 1967* 000747
 Storage Systems for Automobile Propulsion. Volume 1. #An Overall Design Approach to Improving Passenger Car Fuel 000284
 #Rural Passenger Transportation: State-of-the-Art Overview and Findings* #Energy 000063
 #Light Rail Transit: State-of-the-Art Overview* 000202
 #Gasoline Demand by Overview* 000702
 #Fleet Owner Characteristics* 000198
 #Fleet Owner Marketing Handbook, Number Four* 000225
 #Behavior of Car Owner Fuels and Lubricants Survey* 000400
 #Survey of Motorcycle Owners During the Gasoline Shortage* 000060
 Analyses and #Projections of Automobile Use and Ownership, Usage and Maintenance* 000242
 #Projections of Automobile Use and Ownership Based on Lifestyle Factors: First Pass 000317
 #Location, Housing, Auto Ownership Based on Lifestyle Factors: Scenario Analysis* 000318
 Studies on Conversion of Methanol and Related Ownership and Mode to Work: A Joint Choice Model* 000371
 Country: 1977#Supply, Demand, and Stocks of All Oils by Oxygenates to Gasoline* #Development 000741
 #Locomotive Data Acquisition P.A.D. Districts and Imports into the United States, by 000665
 #Severities of Transportation Accidents Involving Large Package: Phase 1. Final Report* 000002
 Resource Technologies: Report of Technology Study Packages* 000173
 Fuel Economy Improvement: Fuel Economy Test Procedures Panel, Inexhaustible Energy Resources Study* Energy 000614
 Vehicle Fuel Economy Improvement: Safety Implications Panel Report* #Study of Potential for Motor Vehicle 000676
 Fuel Economy Improvement: Air Quality and Emissions Panel Report* #Study of Potential for Motor Vehicle 000677
 #Department of Energy Position Paper on Alcohol Fuels* 000678
 #Automotive Fuel Economy (Selected SAE Papers 1965 - 1975)* 000669
 #Study of Future Paratransit Requirements* 000585
 Use and Ownership Based on Lifestyle Factors: First Paratransit Requirements* 000743
 from the American Bus Association. America's Number 1 Pass Analyses and Scenarios* #Projections of Automobile 000317
 Implications* #Potential Passenger Transportation Service* #Report 000020
 Injection Stratified #Fuel Consumption in European Passenger Car Demand for Diesel Fuel and Refining 000553
 #Trunkline Carrier Domestic Passenger Cars Powered by Gasoline, Diesel, and Direct 000130
 #The Potential for Helicopter Passenger Emplanements: Fiscal Years 1976 and 1975* 000138
 Reorientation. Volume II* #Solving Public Passenger Service in Major Urban Areas* 000164
 Alternative Fuels Utilization Program* #Passenger Transportation Problems: A Need for Policy 000170
 Redesigning a Gasoline Engine into a Diesel Engine for #Passenger Car Fuel Economy in Short Trip Operation: 000273
 #An Overall Design Approach to Improving Passenger Car Service* #Considerations in 000275
 Operating Systems* #Energy Study of Rail Passenger Car Fuel Economy* 000284
 #Bus Passenger Demand Models: State-of-the-Art* 000288
 1978 #p-Date* #Energy Intensity of Intercity Passenger Transportation. Volume 2: Description of 000294
 #State of the Art in Passenger Service-Time Distributions* 000355
 Technical Progress Report for Period May 1, 1977 - #Passenger Car Classification Using Interior Volume: A 000403
 Volume II: Analysis* #Intercity Passenger Rail* 000417
 Volume I: Executive Summary* #Intercity Passenger Rail-Rolling Stock Equipment* 000420
 #Baseline Tests of the Kordesch Hybrid Passenger Car Fuel Economy in Short Trip Operation. 000494
 #A Methodology for Making a Quantitative Assessment of Passenger Transportation: Mode/Energy Conservation. 000541
 #Rail Passenger Transportation: Mode/Energy Conservation. 000589
 #Rural Passenger Vehicle* 000618
 #Rural Passenger Transportation Alternatives* 000693
 1976* #Profiles of Scheduled Air Carrier Passenger Statistics in the Northeast Corridor: 1974-75* 000702
 Suburban Computer Service Diesel Trains* #Per Passenger Transportation: State-of-the-Art Overview* 000704
 Emissions* #How Passenger Transportation Primer* 000707
 #Engines for Tomorrow's Local Service Carriers Passenger Traffic for Top 100 U.S. Airports, August 6, 000746
 #Profiles of International Passengers at U.S. Airports, 1976* 000748
 Consumption, 1987-2000* #Analysis of Passenger Car Maintenance Affects Fuel Economy and 000768
 Forecasts. Volume III* #Intercity Rail Passengers Emplanements: Fiscal Years 1976 and 1975* 000686
 in 1974 by FCC Regulated Pipelines: Geographic Flow Past and Expected Future Trends in U.S. Energy 000062
 Income: Regional and Metropolitan-Nonmetropolitan Patronage in the NYC - Buffalo Corridor: Models and 000148
 #Energy Flow Patterns and Intercompany Relationships*Gas Transported 000222
 for Work Trips: Analysis of Alternative Counting Patterns, 1965-75* #Per Capita 000238
 #Work-Force Migration Patterns for 1975* 000345
 #Impact of the Energy Shortage on Travel Patterns for New Jersey* #Energy Savings 000383
 Cars* #The Computer Simulation of Automobile Use Patterns, 1970-76* 000526
 Commodity Transportation Survey - Traffic Patterns and Attitudes* 000552
 #On the Relationship between Gross Vehicle Weight, Payload, Effective Range, and Cost of Electric Vehicles* 000562
 #Transit Costs During Peak and Off-Peak Hours* 000635
 #Transit Costs During Peak and Off-Peak Hours* 000019
 #Field Evaluation of Miles-Per-Gallon Meters* 000523
 Nonmetropolitan Patterns, 1965-75* #Per Capita Income: Regional and Metropolitan- 000709
 000051
 000238

PERMUTED TITLE INDEX

Suburban Commuter Service Diesel Trains*
 *Modeling
 Flywheel/Heat Engine Power for an Energy-Economic Characteristics of School Children
 Nationwide Transportation Study: Mode of Transportation and Personal Characteristics of Tripsmakers
 *Nationwide Honey Income and Poverty Status in 1975 of Families and *Federal Energy Reorganization: Historical Shifts in *Monthly
 the Exemption of Motor Gasoline from the Mandatory Technical *Energy Efficiency Improvement Targets: *1978 National *International
 1972 Census of Wholesale Trade. Subject Series: the Exemption of Motor Gasoline from the Mandatory RICO, January 1, 1977
 *Mineral Industry Surveys: *Locomotive Data Acquisition Package: Configuration with Electrical Transmission System. Configuration with Electrical Transmission System. Forging Technique for Automotive Turbine Wheels: Including Activity Allocation and Weekend Travel *Regulatory Effectiveness Methodology. Effects on Exhaust Hydrocarbon Emission. Final Report, *Near-Term Electric Vehicle Program: of Energy Policies: Development and Application of the *System Flow Chart. for a Flywheel Powered Commuter Vehicle. Final Report. *Near-Term Electric Vehicle Program: *Near-Term Electric Vehicle Program. *Urban Goods Movement Demonstration Project Design Transportation Planning. Part I: Interaction Between Cost and Trade-offs Between Energy Efficiency and Models for Transportation Problems. Part II: The Social Hybrid Vehicles*
 A Evaluation System (PIES) Documentation. Volume 2. Model
 Project Independence Evaluation System (PIES) Documentation. Volume 2. PIES Econometric Demand Model
 Project Independence Evaluation System (PIES) Documentation. Volume 14. A User's Guide
 PIES Oil and Gas Supply Curves
 *Documentation. Volume 6. Methodology for PIES Oil and Gas Supply Curves to Respond to Non-PIES Documentation. Volume 8. Methodology for Enabling Exploratory *Project Independence Evaluation System (PIES) Documentation. Volume 9. Allocation of Utility *Project Independence Evaluation System (PIES) Documentation. Volume 13. Coal and Electric the Project *Project Independence Evaluation System (PIES) Documentation. Volume I: The Integrating Model of *PILOT Energy Model*
 Pipeline and Underground Utilities Construction: Annual Pipeline. Volumes I-V*
 Pipelines: Geographic Flow Patterns and Intercompany Pipelines. Volumes 1-8* and Engineering Analysis of Plan: The Effects on Transportation*
 Plan - Some Answers to the Questions*
 Plan: Electric Vehicle Systems, FY 1978*
 *Report
 Plan to Accelerate the Use of Vanpools*
 Plan. Technical Report*
 *An Advanced Electric
 Plan*
 Plan for a Study of Transportation Energy Research
 Plan*
 Plan*
 Plan*
 Plan (EDP): Transportation Energy Conservation, FY 1977*
 Plan (EDP): Summary and Status of Environmental
 Plan*
 *Notice of Proposed Rulemaking and Public
 Plan*
 *Economic and Regulatory
 Plan*
 Plan*
 Plan of the U.S. Railway Association*
 Action
 Planner's Energy Workshop: A Manual for Exploring
 Planners*
 *Characteristics of Urban
 Planning (A Bibliography with Abstracts)*
 *
 Planning*
 Planning*
 Planning in Rebuilding City Centers: An Examination of
 Planning Process: Selected New Automotive Engines*
 Planning for the Automobile in the SCAG Region: An
 Planning, and Automobile-Use Constraints*
 Planning and Developing Transportation Facilities: What
 Planning. Part I: Interaction Between Urban Centers as
 Planning*
 Planning and Programming for Transportation*
 Planning*
 *Social, Economic,
 Planning*
 Planning*
 Planning*
 Planning*
 *Developing
 Planning Effectiveness*
 009746
 000045
 003382
 003690
 000691
 000691
 000640
 000001
 000039
 000105
 000221
 000261
 000470
 000493
 000591
 000637
 000658
 000659
 000673
 000002
 000012
 000013
 000017
 000018
 000065
 000149
 000224
 000248
 000346
 000347
 000381
 000550
 000566
 000340
 000319
 000539
 000320
 000349
 000214
 000214
 000215
 000216
 000216
 000217
 000217
 000218
 000219
 000219
 000220
 000045
 000496
 000774
 000222
 000533
 000101
 000156
 000195
 000247
 000269
 000388
 000442
 000465
 000557
 000631
 000647
 000651
 000657
 000661
 000667
 000668
 000758
 000113
 000554
 000006
 000066
 000069
 000087
 000099
 000297
 000304
 000306
 000319
 000452
 000455
 000459
 000460
 000461
 000538
 000600

PERMITTED TITLE INDEX

#Assessment of Community
 #Electric and Hybrid Vehicle Program: Small Business
 #Market Oriented Program
 Utilization Program (AFMP)* #Program
 #Computer Programs for Urban Transportation
 #Energy Considerations in Urban Transportation
 #Transit
 #Computer Programs for Urban Transportation Planning:
 Measures to Promote #State Energy Conservation
 (EPP): Summary and Status of Environmental Development
 #Motor Vehicle Factory Sales from
 Survey - Traffic Patterns of Small Manufacturing
 Economical Considerations of the Use of Self-Supporting
 #Sources of Rolling Resistance in Radial
 of Truck, Belt, Rail, Barge and Coal Slurry and
 Comprehensive #The Distributional Impact of Energy
 #Transportation
 #Alternative
 Urban Transportation Alternatives: Evolution of Federal
 of the 1975 Statement of National Transportation
 Public Passenger Transportation Problems: A Need for
 #Toward Establishing a National Energy
 #Energy Analysis: A New Public
 #Transportation Energy Consumption and Conservation
 #Transportation and Land Development
 #Bicycle Strategies to Reduce Air
 #Modal-Choice Analysis of an Exclusive Bus and Car-
 Automotive Fuel Requirements with Increasing Diesel Car
 Industry* #Impact of a Future
 #Projection of Light Truck
 Transportation Systems on the Spatial Distributions of
 #Department of Energy
 #United States
 #Electric-Flywheel Vehicle for
 #The Role of Travel Time Limits in Urban Growth (A
 Refining Implications*
 in the Intercity Freight Market. Volumes I and II*
 Urban Areas* #The
 #An Investigation of Fuel Economy
 #A Study of
 Part I: Interaction Between Urban Centers as a
 #The
 #Urban Transportation and Energy: The
 Combustion Products: A Guide to Evaluation of Their
 1979-1985* #The
 Factors in Transportation Systems and Their
 Fuel Economy Test Procedures Panel Report* #Study of
 Safety Implications Panel Report* #Study of
 Air Quality and Emissions Panel Report* #Study of
 Operated by #Light Duty Highway Fleets: The
 #Joint Development: Institutional Constraints and
 United States and #Consumer Income: Money Income and
 #New Automotive
 Mass Production of Alternative Low Emissions Automotive
 #An Evaluation of Alternative
 #Application of Energy Storage
 and Characteristics of a Prototype Inductive
 Future Population of Electric Vehicles on the Electric
 System Description #Battery-Flywheel Hybrid Electric
 #Hydrogen-Fueled Railroad Motive
 Analysis* #Advanced Automotive
 #Current Status of Alternative Automotive
 #Flywheel/Heat Engine
 Automotive Engine-- #Fuel Consumption, Emissions, and
 Automotive Engine-- #Fuel Consumption, Emissions, and
 Vehicle* #Preliminary
 Studies in Advanced Boiler Technology for Rankine Cycle
 Examination of Future Ridership, Service, and Electric
 Service, and Electric Power Requirements for
 Vehicle* #Preliminary
 #A Computer Program (POWREQ) for
 #The Effect of Dynamometer Inertia Increment and
 the Primary Energy Consumption of Electric and Gasoline
 #Computer Simulation of an Advanced Hybrid Electric-
 Stratified #Fuel Consumption in European Passenger Cars
 Performance and Lightweight Hybrid Flywheel/Battery
 #Evaluation of Selected Drive Components for a Flywheel
 program* #Comparison of an Electric Versus a Gasoline
 Nickel-Zinc Battery: A Viable Alternative for Vehicle
 #A Computer Program (POWREQ) for Power Requirements of Mass Transit Vehicles*
 #Car and Locomotive Cyclopedias of American
 #Regulating and Insuring
 #Methodology for
 #Analysis of
 #Comparison of Segmentations for Modeling Consumers'
 for the United States Energy Industry, 1975-90--A
 Planning for Mass Transit. Volume I: Summary* 000632
 Planning Grants* 000646
 Planning Study (MOPPS). Volume 1: Integrated Summary* 000650
 Planning Document: Highway Vehicle Alternatives: Fuels 000653
 Planning: PLANPAC/BACKPAC. General Information Manual* 000689
 Planning* 000772
 Planning and Operations* 000777
 PLANPAC/BACKPAC. General Information Manual* 000689
 Plans: Guidelines for Travel Demand Analyses of Program 000107
 Plans, FY 1978* #Environmental Development Plan 000651
 Plants in U.S. & Canada* 000432
 Plants* of Transportation. Commodity Transportation 000635
 Plastic Sandwich Constructions in Electrical Vehicles* 000512
 Ply Tires* 000380
 Pneumatic Pipelines. Volumes 1-8* Engineering Analysis 000531
 Policies: Development and Application of the Phase I 000346
 Policies and Energy Conservation* 000513
 Policies for Effecting Intercity Energy Use* 000587
 Policy* 000145
 Policy* #A Progress Report: Implementation 000151
 Policy Reorientation. Volume II* #Solving 000170
 Policy* 000240
 Policy Tool* 000251
 Policy Options in the Northeast* 000609
 Policy* 000761
 Pollution* 000713
 Pool Lane (Abridgment)* 000437
 Population and Implications to Refining Operations* 000049
 Population of Electric Vehicles on the Electric Power 000108
 Population to Year 2025* 000379
 Population and Jobs* #The Effects of 000773
 Position Paper on Alcohol Fuels* 000669
 Postal Service Electric Vehicle Program* 000159
 Postal Service Applications* 000477
 Postulated Urban Area Definition* 000739
 Potential Passenger Car Demand for Diesel Fuel and 000053
 Potential Fuel Conservation Measures by Motor Carriers 000124
 Potential for Helicopter Passenger Service in Major 000164
 Potential of Six 1976-Model Vehicles* 000226
 Potential Coal Utilization: 1985-2000* 000274
 Potential Process* Modeling for Transportation Planning. 000319
 Potential Market for On-the-Road Electric Vehicles* 000336
 Potential Savings of Different Modes* 000358
 Potential Effects on Health* Highway Vehicles and Their 000444
 Potential for Energy Conservation in the United States: 000469
 Potential for Transit as an Energy Saving Option* 000502
 Potential for Bias Toward Vehicles of Particular 000546
 Potential for Motor Vehicle Fuel Economy Improvement: 000676
 Potential for Motor Vehicle Fuel Economy Improvement: 000677
 Potential for Motor Vehicle Fuel Economy Improvement: 000678
 Potential for Alternative Technologies in Fleets 000744
 Potentials* 000196
 Poverty Status in 1975 of Families and Persons in the 000640
 Power Systems* #Economic Impact of 000044
 Power Systems and Appendices* 000046
 Power Sources for Low-Emission Automobiles* 000073
 Power Systems to Nonhighway Transportation* 000077
 Power Coupling for Electric Highway Systems* Performance 000079
 Power Industry* #Impact of a 000108
 Power System for Near Term Application. Volume 1: 000166
 Power Systems, A Feasibility Study* 000234
 Power Systems. Part 1: Morphological System and Systems 000305
 Power Systems and Fuels. Volumes 1-8* 000363
 Power for an Energy-Economic Personal Vehicle* 000382
 Power Characteristics of the 1975 Datsun 119-CID 000392
 Power Characteristics of the 1975 Ford 140-CID 000393
 Power Train Design for a State-of-the-Art Electric 000412
 Power Systems* #Applied 000487
 Power Requirements for Metropolitan Transportation 000508
 Power for the HTA: An Examination of Future Ridership, 000508
 Power Train Design for a State-of-the-Art Electric 000549
 Power Requirements of Mass Transit Vehicles* 000595
 Power Setting on Emissions and Fuel Economy for 000711
 Powered Vehicles* #A Comparison Between 000018
 Powered Vehicle* 000120
 Powered by Gasoline, Diesel, and Direct Injection 000130
 Powered Electric Vehicle Drive* #Development of a High 000272
 Powered Consumer Vehicle. Final Report. Phase I* 000381
 Powered Utility Truck in Two Years of a Service Test 000415
 Powering* #The 000492
 (POWREQ) for Power Requirements of Mass Transit Vehicles* 000595
 Practices* 000147
 Pre-Arranged Ride Sharing* 000770
 Predicting the Demand for New Electricity-Using Goods* 000121
 Predicting Transporter's Choice of Mode* 000555
 Preference for Mixed-Mode Transit* 000475
 Preferences for Transportation Modes* 000258
 Preliminary Report* of Nonfuel Minerals and Materials 000018

PERNOTED TITLE INDEX

Selected Regulated Motor Carriers* #A Preliminary Assessment of Empty Miles Traveled by 000072
of Lead-Acid Batteries to Chopper-Controlled Discharge: # Preliminary Results* #Response 003115
Electric Vehicle* # Preliminary Power Train Design for a State-of-the-Art 000412
Electric Vehicle* # Preliminary Power Train Design for a State-of-the-Art 000549
of Kerojet Fuels from the Mandatory Petroleum # Preliminary Findings and Views Concerning the Exemption 000658
Gas Turbine Catalytic #Experimental Evaluation of #Premixing-PrevapORIZING Fuel Injection Concepts for a 000610
Consumers* #President's Proposed Energy Tax Measures Costly for 000032
Council of Economic Advisers #Economic Report of the President Together with the Annual Report of the 000206
on Gasoline Consumption* #The Impact of the President's Proposed Gasoline Tax and Gas-Guzzler Tax 000608
#Economic Impact of President Carter's Energy Program* 000716
#Mandatory Energy Conservation Amendments to President Carter's Energy Program* 000718
Administration Regulations, Volume 1 and #Report of the Presidential Task Force on Reform of Federal Energy 000503
Catalytic #Experimental Evaluation of Premixing-PrevapORIZING Fuel Injection Concepts for a Gas Turbine 000610
#Monthly Petroleum Product Price Report* 000105
Consumption and Travel Demand: A Review and #Price Elasticity Estimates for Transport Fuel 000123
#Automotive Energy Forecasts: Impact of #Price, Availability, and Efficiency* 000199
Documentation, Volume 6. Methodology for Improving the #Price Sensitivity of the PIES Oil and Gas Supply Curves* 000216
Gasoline from the Mandatory Petroleum Allocation and #Price Regulations, Final Report* the Exemption of Motor 000221
#The Influence of Gasoline Price and Availability Upon Recreation Travel Propensity 000422
#Assessment and Forecast of Marine Fuels #Price and Availability* 000556
Prices, Final Report, Volume I* #Fuel and Energy #Price Forecasts: Quantities and Long-Term Marginal 000597
#Fuel and Energy #Price Forecasts: Final Report, Volume II - Data Base* 000598
Fuels from the Mandatory Petroleum Allocation and #Price Regulations* Concerning the Exemption of Kerojet 000658
Gasoline from the Mandatory Petroleum Allocation and #Price Regulations: Supplement to September 1977 Report* 000659
of Motor Gasoline from the Mandatory Allocation and #Price Regulations* Assessment of the Exemption 000660
#Indexes of Railroad Material Prices and Wage Rates: Railroads of Class 1* 000041
#Travel Behavior Under Increases in Gasoline Prices* 000157
Oil and Gas Supply Curves to Respond to Non-Constant #Prices* Volume 8. Methodology for Enabling the PIES 000217
Price Forecasts: Quantities and Long-Term Marginal #Prices, Final Report, Volume I* #Fuel and Energy 000597
Statistics and Trends of Energy Supply, Demand, and #Prices* Annual Report to Congress, Volume III: 000664
#Regulation of Domestic Crude Oil Prices* 000717
Evidence on the Elasticity of Travel Demand* #Pricing in Urban Transportation: A Survey of Empirical 000505
Demand Functions in the North Atlantic and Their #Pricing Implications* #Airline 000604
Powered Vehicles* #A Comparison Between the #Primary Energy Consumption of Electric and Gasoline 000018
#Use of Natural Gas as a #Primary Vehicular Fuel for a Public Utility Fleet* 000259
#Rural Passenger Transportation #Primer* 000704
for a Study of Transportation Energy Research Needs and #Priorities. A Report to the Energy Research and 000465
Improvement Projects* #Priority Analysis Procedure for Ranking Highway 000385
#Caltech Seminar Series on Energy Consumption in #Private Transportation: Administrative Summary* 000296
States for the Year Ended December 31, 1975. Part 4: #Private Car Lines* #Transport Statistics in the United 000328
Engineering Conference, Volumes 1 and 2* #Proceedings of the 12th Intersociety Energy Conversion 000322
Technology - Methanol and Ethanol* #Proceedings: International Symposium on Alcohol Fuel 000068
#1977 Flywheel Technology Symposium #Proceedings* 000119
Capability Assessment Workshop* #Proceedings of the Hybrid Vehicle Interest and 000163
Symposium, Volumes 1 and 2* #Proceedings of the Third International Electric Vehicle 000192
and II* #Energy Use Management: #Proceedings of the International Conference, Volumes I 000212
Automotive Propulsion Systems, Volumes I and II* #Proceedings of the Fourth International Symposium on 000478
Consolidation* #Proceedings of the Workshop on Urban Freight #Proceedings* 000649
#Third Annual FAA Forecast Conference #Proceedings* 000685
#Proceedings: 1978 Travel Outlook Forum* 000724
Efficiency Improvement Targets: Petroleum and Coal #Products (SIC 29), Volume 2: Technical Appendices* 000261
Additives for Highway Vehicles and Their Combustion #Products: A Guide to Evaluation of Their Potential 000444
June 1, 1975* #A #Profile of Airline Service in the 48 Contiguous States, 000136
#Mini-bus #Profile* 000705
#Evaluation of Maritime Industry Energy Consumption #Profiles* 000593
#Minerals in the U.S. Economy: Ten-Year Supply-Demand #Profiles for Mineral and Fuel Commodities (1966-75)* 000671
1976* #Profiles of International Passengers at U.S. Airports, 000686
Top 100 U.S. Airports, August 6, 1976* #Profiles of Scheduled Air Carrier Passenger Traffic for 000707
#People Mover #Profiles* 000709
#U.K. Electric Vehicle Development #Programs* 000553
#Transportation #Programming and Management* 000427
#Planning and #Programming for Transportation* 000455
Highway Safety Improvement Investments by Dynamic #Programming* 000495
#Highway and Transit #Optimal 000114
Fuel, Report to the #Effective Fuel Conservation #Programs: Message to the Congress Proposing Legislation* 000246
Multiproject Scheduling for Transportation Construction #Programs Could Save Millions of Gallons of Aviation 000438
BACKPAC, General Information Manual* #Computer #Programs for Urban Transportation Planning: PLANPAC/ 000689
#Status of Federal Energy Conservation #Programs, Parts 1 and 2* 000719
Energy Storage and Electric-Vehicle Propulsion, #Progress Reports* Performance Batteries for Stationary 000036
of National Transportation Policy* #A #Progress Report: Implementation of the 1975 Statement 000151
Car Fuel Economy in Short Trip Operation, Technical #Progress Report for Period May 1, 1977 - November 30, 000494
Gas Turbine Development Program, Eighteenth Quarterly #Progress Report* #Baseline 000561
#Voluntary Business Energy Conservation Program: #Progress Report No. 6* 000648
#Fleet Test of Re-Refined Oil, First Annual #Progress Report* 000728
Program Review* #State-of-the-Art (SOA) Test and Data #Project Review and Near-Term Electric Vehicle R&D 000194
Documentation, Volume 2. PIES Econometric Demand Model* #Project Independence Evaluation System (PIES) 000214
Documentation, Volume 14. A User's Guide* #Project Independence Evaluation System (PIES) 000215
Documentation, Volume 6. Methodology for Improving the #Project Independence Evaluation System (PIES) 000216
Documentation, Volume 8. Methodology for Enabling the #Project Independence Evaluation System (PIES) 000217
Documentation, Volume 9. Allocation of Exploratory #Project Independence Evaluation System (PIES) 000218
Documentation, Volume 13. Coal and Electric Utility #Project Independence Evaluation System (PIES) 000219
Documentation, Volume 1: The Integrating Model of the #Project Independence Evaluation System* System (PIES) 000220
Documentation, Volume I: The Integrating Model of the #Project Independence Evaluation System (PIES) 000220
#Vanpooling Demonstration #Project* 000268
#Urban Goods Movement Demonstration #Project Design Phases I and II, Executive Summary* 000340
#Driver Aid and Education Test #Project, Final Report* 000666
#Study Design for a Method of #Projecting Vehicle Miles of Travel* 000510
#Automotive Energy Use: A Baseline #Projection for New York State* 000260

PERMUTED TITLE INDEX

*Forecasting Models for Air Freight Demand and
 *Fuel Consumption and Engine Horsepower
 Lifestyle Factors: First Pass Analyses and Scenarios*
 Lifestyle Factors: Scenario Analysis*
 of BEA Economic Areas: 1950, 1960, and 1970, with
 Midwestern Railroads*
 *1978 U.S. Industrial Outlook with 5-year
 Administration Annual Report to Congress. Volume II:
 Analysis Procedure for Ranking Highway Improvement
 *Optimum Staging of
 for Travel Demand Analyses of Program Measures to
 *Performance and Emissions of a Catalytic Reactor with
 Gasoline Price and Availability Upon Recreation Travel
 *The Ton-Mile: Does It
 *Freight Commodity Statistics: Motor Carriers of
 *Road User and
 *Energy Program 8: Energy Tax
 *DOE
 *Highway and Transit Programs: Message to the Congress
 December 31, 1975. Part 1: Railroads, Their Lessors and
 System. Phase II *Study of Heat Engine/Flywheel: Hybrid
 System. Phase I: *Study of Heat Engine/Flywheel: Hybrid
 for Stationary Energy Storage and Electric-Vehicle
 Problems*
 *Electric
 *Energy Storage Systems for Automobile
 of Lithium/Iron Sulfide Batteries for Electric Vehicle
 to Develop Lead-Acid Batteries for Electric Vehicle
 *The Lithium-Water-Air Battery for Automotive
 *Energy Requirement for Electric Road Vehicle
 of the Fourth International Symposium on Automotive
 Systems*
 *Long Term Energy Alternatives
 *The Hydrogen Energy Economy: A Realistic Appraisal of
 *Energy Effects, Efficiency, and
 *Energy: Global
 *Test of the Performance and Characteristics of a
 *Synthesized Engine Oil
 *Ridesharing to Work: A
 of Program Measures to Promote Carpools, Vanpools, and
 Policy Reorientation. Volume II*
 *Solving
 *Energy Analysis: A New
 *Use of Natural Gas as a Primary Vehicular Fuel for a
 Transit Guidelines Versus a Consumer Orientation in
 *Where Transit Works: Urban Densities for
 *Transbus
 Annual Report to Congress on the Implementation of
 Rationing Plan*
 *Notice of Proposed Rulemaking and
 to the United States Congress, Pursuant to Section 3,
 Surveys: Petroleum Refineries in the United States and
 *Fuel Economy through Teaswork:
 *1975-76 Statistics on
 *Fuel Economy through Teaswork:
 *A
 of Transportation to the United States Congress,
 for Motor Vehicle Fuel Economy Improvement: Air
 Alternatives*
 *A Methodology for Making a
 *Baseline Gas Turbine Development Program. Eighteenth
 Hydrocarbon Emission. Final Report, Phase 2, *Wall
 *The Carter Energy Plan - Some Answers to the
 and Data Project Review and Near-Term Electric Vehicle
 Process*
 *Making Federal
 *R & D. Part II: Military Fuel Options--Performance and
 R & D Implications
 *DoD Energy
 *Sources of Rolling Resistance in
 *Design of Elevated Guideway Structures for Light
 and Forecasts. Volume III*
 *Intercity
 *Economies of Traffic Density in the
 Operating Systems*
 *Energy Study of
 and the Environment: Estimation of Fuel Consumption in
 and the Environment: Estimation of Fuel Consumption in
 *Energy Intensity of Intercity Passenger
 *State of the Art in Passenger
 *Transportation Characteristics of Truck,
 *Intercity Freight Movement by
 An Economic and Engineering Analysis of Truck, Belt,
 *Model for Cost-Effective Maintenance of
 *An Experiment in Freight Modal Choice: Delineating the
 1978-75*
 *Light
 Program. The Distribution of Capital Grant Funds for
 Grant Funds for Rail Rehabilitation and *The UMTA
 *Energy Costs of Heavy
 *Yearbook of
 *Indexes of
 Projection of Light Truck Population to Year 2025
 Projection of Cargo Activity at U.S. Air Hubs
 Projections for the Highway Transportation Sector
 *Projections of Automobile Use and Ownership Based on
 *Projections of Automobile Use and Ownership Based on
 Projections for 1980 Between the Metropolitan Centers
 *Projections of 1980 Freight Demands for Selected
 Projections for 200 Industries
 *Projections of Energy Supply and Demand and Their
 Projects*
 *Priority
 Projects in a Highway Plan
 Promote Carpools, Vanpools, and Public Transportation
 Propane, Diesel, and Jet A Fuels
 Propensity
 *The Influence of
 Properly Measure Transportation Output?
 Property, Year Ended December 31, 1974
 Property Taxes on Selected Motor Vehicles: 1973
 Proposals Relating to Transportation
 Proposes Emergency Gasoline Rationing Plan
 Proposing Legislation
 *Proprietary Companies, and Electric Railways*Year Ended
 *Propulsion Configuration with Electrical Transmission
 *Propulsion Configuration with Electrical Transmission
 *Propulsion. Progress Reports*High-Performance Batteries
 *Propulsion for Road Vehicles. State of the Art and
 Propulsion. Volume 1. Overview and Findings
 Propulsion
 *Design and Testing
 Propulsion. Volume 1
 *Cost and Design Study
 Propulsion
 Propulsion
 Propulsion
 Propulsion Systems. Volumes I and II
 *Proceedings
 *Propulsion: Synthetic Fuel Versus Battery/Electric
 Prospects and Impacts
 Prospects for Various Modes of Transportation
 Prospects 1985-2000
 *Energy: Global
 *Prototype Inductive Power Coupling for Electric Highway
 Providing Fuel Economy Benefits*
 Psychosocial Analysis
 Public Transportation
 for Travel Demand Analyses
 *Public Passenger Transportation Problems: A Need for
 Public Policy Tool
 Public Utility Fleet
 Public Transportation Systems
 *Mass
 Public Transportation Planning
 Public Opinion Survey on Energy and Transportation
 Public Transportation
 Public Testing and Evaluation Program
 *Public Law 98-413: The Electric and Hybrid Vehicle
 Public Hearing to Establish Contingency Gasoline
 Public Law 89-139 of the Secretary of Transportation
 Puerto Rico, January 1, 1977*
 *Mineral Industry
 Pupil Transportation and Energy Conservation*
 Pupil Transportation
 Purchasing for Fuel Economy
 Purpose-Built Electric Taxi
 Pursuant to Section 3, Public Law 89-139 the Secretary
 Quality and Emissions Panel Report*
 *Study of Potential
 Quantitative Assessment of Passenger Transportation
 Quarterly Progress Report*
 *Quench and Flammability Limit Effects on Exhaust
 Questions*
 RED Program Review
 *State-of-the-Art (SOA) Test
 R and D Useful: A Case Study of the Implementation
 R & D Implications
 *DoD Energy
 *R & D. Part II: Military Fuel Options--Performance and
 Radial Ply Tires*
 Rail Transit (Abridgment) (Discussion)
 *Rail Patronage in the NYC - Buffalo Corridor: Models
 Rail Freight Industry
 *Rail Passenger Transportation. Volume 2: Description of
 Rail Transportation. Volume I: Analytical Model
 *Rail Transportation. Volume II - Freight Service
 Rail Transit
 Rail
 Rail-Rolling Stock Equipment
 Rail, and Water Freight
 Rail and Highway
 Rail Transit Development
 *Rail, Barge and Coal Slurry and Pneumatic Pipelines.
 Rail Transit Vehicles in Urban Mass Transit Systems
 Rail-Truck Interface
 *Rail Passenger Statistics in the Northeast Corridor:
 Rail Transit: State-of-the-Art Overview
 Rail Rehabilitation and Modernization, 1965-1977
 *Rail Modernization Program. The Distribution of Capital
 Rail Transit Construction
 Railroad Facts: 1978 Edition
 *Railroad Material Prices and Wage Rates: Railroads of
 000379
 003384
 000183
 000317
 000318
 000483
 000506
 000641
 000663
 000385
 000557
 000107
 000031
 000422
 000228
 000324
 000575
 000630
 000667
 000114
 000326
 000012
 000013
 000036
 000047
 000063
 000126
 000201
 000281
 000277
 000478
 000599
 000177
 000464
 000765
 000079
 000257
 000310
 000107
 000170
 000251
 000259
 000439
 000461
 000472
 000519
 000581
 000652
 000657
 000699
 000673
 000094
 000468
 000093
 000751
 000699
 000678
 000618
 000561
 000224
 000156
 000194
 000313
 000530
 000530
 000380
 000070
 000148
 000286
 000294
 000307
 000308
 000362
 000417
 000420
 000456
 000457
 000463
 000531
 000548
 000601
 000693
 000703
 000710
 000710
 000762
 000040
 000041

REPUTED TITLE INDEX

Summary* #Hydrogen-Fueled Railroad Motive Power Systems, A Feasibility Study* 000234
 Description* #Energy Study of Railroad Freight Transportation. Volume 1: Executive 000424
 Improvements and Industry Future* #Energy Study of Railroad Freight Transportation. Volume 2: Industry 000425
 #An Engineering Analysis and Comparison of Railroad Freight Transportation. Volume 3: Efficiency 000426
 Energy and Labor Intensity of an Electric Computer and Tariff* #Energy Study of Railroad Freight Transportation. Volume 3: Requirements* 000428
 #The Dollar, 000489
 Railroad Freight Transportation. Volume 3: Regulation 000491
 Railroad Electrification: The Issues* 000569
 Railroad Revitalization and Regulatory Reform Act of 000626
 Railroad Electrification* 000694
 Railroad Reorganization: Congressional Action and 000758
 Railroads of Class 1* 000841
 Railroads and Their Operated Mileage in the Several 000842
 Railroads and the Environment: Estimation of Fuel 000307
 Railroads and the Environment: Estimation of Fuel 000308
 Railroads, Their Lessors and Proprietary Companies, and 000326
 Railroads: Financial and Operating Statistics for the 000330
 Railroads* #Projections 000506
 Railroads* 000617
 Railway Association* Action and Federal Expenditures 000758
 Railways* Ended December 31, 1975. Part 1: Railroads, 000326
 Rankine Cycle Power Systems* 000487
 Ranking Highway Improvement Projects* 000385
 Rapid Transit Lines (Abridgment) (Discussion)* 000490
 Rate* #Effect 000661
 Rates: Railroads of Class 1* 000041
 Rationing Plan* #Notice of Proposed Rulemaking 000657
 Rationing Plan* #Economic and 000661
 Rationing Plan* 000667
 Re-refined Oil. First Annual Progress Report* 000728
 Reactor with Propane, Diesel, and Jet A Fuels* 000031
 Readings* 000162
 Realistic Effects of Winds on the Aerodynamic 000171
 Realistic Appraisal of Prospects and Impacts* 000177
 Rebuilding City Centers: An Examination of Cedar- 000087
 Recommendations* #Tourist Traffic 000613
 Recommended Performance Standards for Electric and 000729
 Records and Reporting System. Volumes 1-4* #Urban Mass 000029
 Recreation Travel Propensity* 000422
 Recreation Vehicle Figures, Facts and Forecasts: 1961 - 000516
 Recreation Vehicle Industry* and Trends 1977: 5th Annual 000517
 Recreational Vehicles: A Subject Bibliography from 000229
 Recreational Travel and Recreational Vehicle Data* 000252
 Recreational Vehicle Data* #Recreational 000252
 Recreational Travel Impacts: Review of Recreational 000252
 Recreational Boating in the Continental United States 000680
 Redesigning a Gasoline Engine into a Diesel Engine for 000275
 Reduce Highway Vehicle Use. Volume I: Technical Report. 000302
 Reduce Air Pollution* 000713
 Reducing Gasoline Consumption Through Improved Motor 000141
 Reducing Automobile Emissions and Fuel Consumption* 000297
 Reducing the Energy Consumption of the Commercial Air 000356
 Reducing the Energy Consumption of the Commercial Air 000737
 Reevaluation of Ground Access to Airports* 000580
 Refined Oil. First Annual Progress Report* 000728
 Refineries in the United States and Puerto Rico, 000673
 Refining Operations* #Automotive Fuel Requirements with 000049
 Refining Implications* 000053
 Reform of Federal Energy Administration Regulations. 000503
 Reform Act of 1976* 000626
 Refrigerated Trucks for Hauling Fresh Fruits and 000076
 Regenerated Single-Shaft Ceramic Gas-Turbine Engines 000350
 Regenerative Braking Systems on Electric and Other 000167
 Regenerative Braking Systems on Electric and Other 000168
 Regenerative Braking* 000338
 Regenerator Design and Reliability Program. Final 000154
 Region: An Evaluation of Alternatives for Reducing 000297
 Region* 000303
 Region* 000440
 Region, and Aircraft Type* 000501
 Region, by Divisions and States (Spring 1976 Survey of 000640
 Regional and Metropolitan-Nonmetropolitan Patterns, 000238
 Regional Transportation Energy Conservation Data Book. 000266
 Regional Bus Transportation* 000462
 Regional Transportation and Energy Availability* 000533
 Regional Transit* 000584
 Regions of the United States* 000429
 Regions* #Volumes and Transportation 000570
 Registration: A Subject Bibliography from Highway 000230
 Registration 1967 - 1975* 000391
 Regression* #Representation 000409
 Regulator Adult Bicycle User* 000337
 Regulated Motor Carriers* #A Preliminary 000072
 Regulating Pipelines: Geographic Flow Patterns and 000222
 Regulating Electric Vehicles for Energy Conservation* 000499
 Regulating and Insuring Pre-Arranged Ride Sharing* 000770
 Regulation and Tariffs* #Energy 000491
 Regulation of Domestic Crude Oil Prices* 000717

REPORTED TITLE INDEX

from the Mandatory Petroleum Allocation and Price Task Force on Reform of Federal Energy Administration Fuels from the Mandatory Petroleum Allocation and Price from the Mandatory Petroleum Allocation and Price Motor Gasoline from the Mandatory Allocation and Price Foreign Trade #Final Environmental Impact Statement: Administration on the Energy Efficiency of Agency

#Railroad Revitalization and #Economic and Economy for Motorcycles. Technical Support Report for #Motorcycle Usage. Technical Support Report for The Distribution of Capital Grant Funds for Rail Computer-Based Model for Exploring Land Use and Energy #The Planner's Energy Workshop: A Manual for Exploring Pipelines: Geographic Flow Patterns and Intercompany #Automotive Gas Turbine Ceramic Regenerator Design and #Federal Energy Expenditures Related to the Final System Plan #Railroad Passenger Transportation Problems: A Need for Policy Industry Uniform System of Accounts and Records and Squares Regression*

#Electric Vehicle Efficiency. A Report of an Informal Transportation #Regulatory Effectiveness Methodology. Phase I of the Travel Reference Center* #Travel Off the Shelf: A Methodology for Implementing Federal #TRISNET: Directory to Transportation #Battery Research Sponsored by the U.S. Energy Development Administration* #Battery State of the Art and Suggestions for Future #Scope and Plan for a Study of Transportation Energy Research Needs and Priorities. A Report to the Energy #Characterization and and Risk Assessment of the Electric and Hybrid Vehicle of Public Law 94-413: The Electric and Hybrid Vehicle #Annotated Bibliography on Highway Travel Exposure #Application of Choice Theory to #Impact of Transit Line Extension on #Realistic Effects of Winds on the Aerodynamic #The Influence of Road Surface Texture on Tire Rolling #Sources of Rolling #Tire Rolling

Impact Assessment* #Computer-Based #The Need for and Deployment of Inexhaustible Energy Directory to Transportation Research Information and Application of the Phase I Comprehensive Human #System Flow Chart. Phase I: Comprehensive Human Report of Technology Study Panel, Inexhaustible Energy for Enabling the PIES Oil and Gas Supply Curves to Discharge: Preliminary Results* #General Motors and Other Procedures for 1978 and Later #Analysis of User Length by Fare #Truck Carriers--Coach Class: Traffic, Behavior Toward Fuel Efficient Vehicles: Literature for Transport Fuel Consumption and Travel Demand: A #Energy, the Environment and Land Use: Literature Review and Near-Term Electric Vehicle R&D Program #State-of-the-Art (SOA) Test and Data Project

Data* #Recreational Travel Impacts: #Ridesharing Behavior: A Time* #Energy Consumption Forecasts for Transportation: A Vehicle #Facts and Trends 1977: 5th Annual Historical #A #Railroad Petroleum Refineries in the United States and Puerto #Regulating and Insuring Pre-Arranged #Power for the MTA: An Examination of Future

Research, Development and #Opportunity and in Rebuilding City Centers: An Examination of Cedar #Electric Propulsion for #Analysis of On- #The Influence of #Energy Requirement for Electric #World #The Potential Market for On-the #Evaluation of

Urban Forms* #Safety Effects of the Energy Crisis on U.S. Toll #Suburban Highways and Automobile Fuel Consumption on Congested Urban - Some Economic Considerations* #The Influence of Road Surface Texture on Tire #Sources of #State of the Art in Passenger Rail- Regulations. Final Report* Exemption of Motor Gasoline Regulations. Volume 1 and Volume 2, Appendices* Regulations* Views Concerning the Exemption of Kerojet Regulations: Supplement to September 1977 Report* Regulations* Assessment of the Exemption of Regulations for U.S. Tank Vessels Carrying Oil in Regulations* Report to Congress by the Federal Aviation Regulatory Effectiveness Methodology. Phase I Research* Regulatory Reform Act of 1976* Regulatory Analysis of the Proposed Standby Gasoline Regulatory Action* Power Setting on Emissions and Fuel Regulatory Action* Rehabilitation and Modernization, 1965-1977* Program. Relationships* #Land Use - Energy Simulation Model: A Relationships Between Land Use and Energy Utilization* Relationships* Gas Transported in 1974 by FPC Regulated Reliability Program. Final Annual Report for Period Reorganization: Historical Perspective* Reorganization: Congressional Action and Federal Reorientation. Volume II* #Solving Public Reporting System. Volumes 1-4*Urban Mass Transportation Representation of Engine Data by Multi-Variate Least- Research, Development, and Technology-Foreign (U)* Research Board Workshop* Through Improved Motor Vehicle Research* Research Bibliography: A Bibliography of the Holdings Research* #Setting It Research Information Resources* Research and Development Administration* Research Sponsored by the U.S. Energy Research and Research* #Aggregate Auto Travel Forecasting: Research Needs and Priorities. A Report to the Energy Research and Development Administration* Energy Research Investigation of Methanol and Methyl Fuels* Research, Development and Demonstration Act of 1976* Research, Development and Demonstration Act of 1976* Research Methods* Residential Location and Related Household Decisions* Residential Land Use* Resistance of Automobiles* Resistance* Resistance in Radial Ply Tires* Resistance - A Speed Dependent Contribution* Resource Accounting Model for Automobile Technology Resource Technologies: Report of Technology Study Resources* #TRISNET: Resources Data System. Task 8, Final Report*Development Resources Data System* Energy Resource Technologies: Respond to Non-Constant Prices* Volume 8. Methodology Response of Lead-Acid Batteries to Chopper-Controlled Response to Proposed Fuel Economy and Emissions Testing Response to the 1975 New York City Transit-Fare Revenue, Yield, Enplanements and Average On-Flight Trip Review* #Consumer Review and Bibliography* #Price Elasticity Estimates Review* #State-of-the-Art (SOA) Test and Data Project Review and Near-Term Electric Vehicle R&D Program Review Review of Recreational Travel and Recreational Vehicle Review of Recent Findings* Review of Studies Leading to Existing Values of Travel Review and Evaluation* #Baseline Review of Production and Shipments of the Recreation Review of Factors Influencing Railroad Electrification* Revitalization and Regulatory Reform Act of 1976* Rico, January 1, 1977* #Mineral Industry Surveys: Ride Sharing* Ridership, Service, and Electric Power Requirements for Ridesharing Behavior: A Review of Recent Findings* Ridesharing to Work: A Psychosocial Analysis* Risk Assessment of the Electric and Hybrid Vehicle Riverside in Minneapolis* and Transportation Planning Road Vehicles. State of the Art and Problems* Road Electric Vehicle Experiences of 62 U.S. Utilities* Road Surface Texture on Tire Rolling Resistance* Road Vehicle Propulsion* Road Statistics: 1970-1974. Edition 1975* Road Electric Vehicles* Road and Transit System Requirements for Alternative Road User and Property Taxes on Selected Motor Roads* #Highway Roads as Instruments of Land Use Change* Roads* #A Procedure for Estimating Roadway Decision-Making and Implications for Energy Use Rolling Resistance* Rolling Resistance in Radial Ply Tires* Rolling Stock Equipment*

PERNOTED TITLE INDEX

High Temperature Gas Turbine. Volume 2: Ceramic Turbine
 * Airport Activity Statistics of Certified
 Gasoline Rationing Plans * Notice of Proposed
 An Analysis of the Automobile Market: Modeling the Long-
 An Analysis of the Automobile Market: Modeling the Long-
 An Analysis of the Automobile Market: Modeling the Long-
 Overview * Evaluation of Interaction Between
 * Report from the American Bus Association. America's
 Systems by Use of Energy Management - Third Year
 Analysis of Past and Expected Future Trends in U.
 of On-Road Electric Vehicle Experiences of 62 U.
 Highway Safety Effects of the Energy Crisis on U.
 Between Land Use and Energy Utilization * The Planner's
 Trends: Domestic and International Operations of the U.
 to the National Energy Accounts: Energy Flows in the U.
 to the National Energy Accounts: Energy Flows in the U.
 System (PISS) Documentation. Volume 14. A User's
 Impacts of Future Use of Electric Cars in U.
 Battery Research Sponsored by the U.
 Freight Demand and Projection of Cargo Activity at U.
 Economic Structure of Nonmetropolitan Areas in the 1970's
 Motor Vehicle Factory Sales from Plants in U.
 Highway and Urban Transportation in the 1970's and 1980's
 Highway and Urban Transportation in the 1970's
 Dynamic Models of the U.
 Predicting Transporter * U.
 New Car Efficiency Standards *
 Consumption * The Impact of the President's
 Domestic and International Transportation of U.
 Industries * 1978 U.
 by Frequency * A Statistical Analysis of the World's
 and Fuel Commodities (1966-75) * Minerals in the U.
 Brief * U.
 Fiscal Year 1976 * U.
 Final Environmental Impact Statement: Regulations for U.
 Profiles of International Passengers at U.
 Secretary of Transportation * The Status of the Nation's
 Scheduled Air Carrier Passenger Traffic for Top 100 U.
 Economic Impact of President Carter's
 Energy Conservation Amendments to President Carter's
 The Consumer * U.
 Ward * U.
 Expenditures Related to the Final System Plan of the U.
 Engines for Tomorrow * U.
 Automotive Fuel Economy (Selected
 Highway
 Vehicles: A Subject Bibliography from Highway
 and Registration: A Subject Bibliography from Highway
 Optimal Highway
 National Traffic and Motor Vehicle
 Federal-Aid Highway Act of 1976 and Highway
 Potential for Motor Vehicle Fuel Economy Improvement:
 Fuel Economy ... A Subject Bibliography from Highway
 December 1977 and Annual Summary * Transportation
 Motor Vehicle Factory
 Considerations of the Use of Self-Supporting Plastic
 the Effective Fuel Conservation Programs Could
 Fuel Economy Through Teamwork: The Science of
 - Final Report on the Operation and Effects of Daylight
 the Operation and Effects of Daylight * The Daylight
 The Potential for Transit as an Energy
 Mode Shift Strategies to Effect Energy
 Urban Transportation and Energy: The Potential
 Consulting Patterns for New Jersey * Energy
 Motor Vehicle Information and Cost
 Automobile * Planning for the Automobile in the
 TECNET * U.
 of Four Existing Scenarios * Transportation Energy
 Function Analysis of ERDA Forecast-2, Year-2000
 Use and Ownership Based on Lifestyle Factors:
 Technical Report No. 1: Examination of Four Existing
 Based on Lifestyle Factors: First Pass Analyses and
 Effect of Automatic Vehicle Monitoring Error on Transit
 Control System Over the Federal Emissions Driving
 and Traffic: Relations Derived from Urban Driving
 S. Airports, August 6, 1976 * Profiles of
 Development
 Alternative Work
 Multiproject
 ESTER). A Fuel Economy Management Handbook Encouraging
 Rolling Resistance - A Speed Dependent Contribution* 000583
 Rotar Technology* 000402
 Brittle Materials Design, 000139
 Route Air Carriers for 12 Months Ended December 31, 1976 000657
 Rulemaking and Public Hearing to Establish Contingency 000558
 Run Determinants of the Demand for Automobiles. Volume 000559
 Run Determinants of the Demand for Automobiles. Volume 000560
 Run Determinants of the Demand for Automobiles. Volume 000533
 Rural Regional Transportation and Energy Availability* 000702
 Rural Passenger Transportation: State-of-the-Art 000708
 Rural Passenger Transportation Primer* 000515
 RV Financial Facts* 000015
 U. S. Energy and Economic Growth, 1975-2010* 000020
 Number 1 Passenger Transportation Service* 000032
 Proposed Energy Tax Measures Costly for Consumers* 000056
 Program * Increased Fuel Economy in Transportation 000062
 S. Energy Consumption, 1947-2000* 000109
 S. Utilities* #Analysis 000110
 S. Toll Roads* 000113
 S. Energy Workshop: A Manual for Exploring Relationships 000132
 S. Supplemental Air Carriers, Calendar 1963 - Fiscal 000210
 S., 1973 and 1974. Volume II. Program Documentation* 000211
 S., 1973 and 1974. Volume I: Methodology* #Update 000215
 S Guide* #Project Independence Evaluation 000236
 S. Energy Situation on High Speed Ground Transportation* 000281
 S. Cities* 000360
 S. Energy Research and Development Administration* 000384
 S. Air Hubs* #Forecasting Models for Air 000398
 #The Changing Demographic and 000432
 S. & Canada* 000447
 s and 1980's* 000447
 S. Automobile Fleet* 000511
 s. Choice of Mode* 000555
 S. Gasoline Demand: An Economic Analysis of the EPCA 000608
 s Proposed Gasoline Tax and Gas-Guzzler Tax on Gasoline 000620
 s Blue Book of the Trucking Industry: 1977 Edition* 000636
 S. Foreign Trade: 1970's 000641
 S. Industrial Outlook with 5-year Projections for 200 000643
 s Merchant Fleets Showing Age, Size, Speed, and Draft 000671
 S. Economy: Ten-Year Supply-Demand Profiles for Mineral 000674
 S. Dept. of Transportation Fiscal Year 1979 Budget in 000675
 S. Department of Transportation. 10th Annual Report: 000681
 S. Tank Vessels Carrying Oil in Foreign Trade and 000686
 S. Airports, 1976* 000699
 S. Highways: Conditions and Performance. Report of the 000707
 S. Airports, August 6, 1976* #Profiles of 000716
 s Energy Program* 000718
 s Energy Program* #Mandatory 000745
 s Electric Car* 000750
 s Automotive Yearbook: 1978* 000758
 S. Railway Association* Congressional Action and Federal 000768
 s Passenger Cars* 000585
 SAE Papers 1965 - 1975* 000110
 Safety Effects of the Energy Crisis on U.S. Toll Roads* 000229
 Safety Literature* #Recreational 000230
 Safety Literature* #Motor Vehicle Titling 000495
 Safety Improvement Investments by Dynamic Programming* 000625
 Safety Act of 1966* 000629
 Safety Act of 1976* 000677
 Safety Implications Panel Report* #Study of 000698
 Safety Literature* 000706
 Safety Information Report: October, November, and 000432
 Sales from Plants in U.S. & Canada* 000512
 Sandwich Constructions in Electrical Vehicles* 000246
 Save Millions of Gallons of Aviation Fuel. Report to 000090
 Saving Fuel* 000189
 Saving Time* Saving Time Study. Executive Summary 000189
 Saving Time Study. Executive Summary - Final Report on 000502
 Saving Option* 000008
 Savings in Intercity Transportation* 000358
 Savings of Different Modes* 000383
 Savings for Work Trips: Analysis of Alternative 000627
 Savings Act* 000297
 SCAG Region: An Evaluation of Alternatives for Reducing 000181
 Scenarios of Transportation Energy Conservation Using 000067
 Scenario Analysis Technical Report No. 1: Examination 000125
 Scenario* #Multi-Objective 000318
 Scenario Analysis* #Projections of Automobile 000067
 Scenarios* #Transportation Energy Scenario Analysis 000317
 Scenarios* #Projections of Automobile Use and Ownership 000098
 Schedule Adherence Monitoring* 000182
 Schedule* System Optimization of an Experimental Engine 000204
 Schedule Data* #Exhaust Emissions, Fuel Consumption 000707
 Scheduled Air Carrier Passenger Traffic for Top 100 U. 000443
 Schedules for Vehicle Energy Storage Systems* 000733
 Schedules* 000438
 Scheduling for Transportation Construction Programs* 000095
 School Transportation Effective Energy Management (000095

PERQUOTED TITLE INDEX

Transportation Study: Transportation Characteristics of School Children* #Nationwide Personal 000690
 #Fuel Economy Through Teamwork: The Science of Saving Fuel* 000900
 Research Needs and Priorities. A Report to the Energy #Scope and Plan for a Study of Transportation Energy 000465
 #Fuel-Efficient Vehicles: Report of the Literature #Consumer Behavior Toward 000083
 #Highways: Conditions and Performance. Report of the Secretary of Transportation to the United States 000699
 #Horsepower Projections for the Highway Transportation Sector* #Fuel Consumption and Engine 000183
 #Energy Consumption in the Transportation Sector* 000187
 Transportation Modes* #Comparison of Segmentations for Modeling Consumers' Preferences for 000258
 #A Preliminary Assessment of Empty Miles Traveled by Selected Regulated Motor Carriers* 000072
 of the Technology Implementation Planning Process: Selected New Automotive Engines* #Trial Application 000099
 Demands* #Impact of Selected Energy Conservation Technologies on Baseline 000179
 #Transportation Energy Conservation Data Book: A Selected, Annotated Bibliography, Edition 2* 000314
 Computer Vehicle. Final Report. Phase I* #Evaluation of Selected Drive Components for a Plywheel Powered 000381
 #Projections of 1980 Freight Demands for Selected Midwestern Railroads* 000506
 #Road User and Property Taxes on Selected Motor Vehicles - 1973* 000575
 #Automotive Fuel Economy (Selected SAE Papers 1965 - 1975)* 000585
 of Natural Gas Under Energy Emergencies: Analysis of Selected Federal Actions* #Allocation 000622
 Transportation Survey - Commodity Groups: Part 2, Selected Major TCC 3-Digit Classes* Commodity 000634
 #Technical and Economical Considerations of the Use of Self-Supporting Plastic Sandwich Constructions in 000512
 Transportation: Administrative Summary* #Caltech Seminar Series on Energy Consumption in Private 000296
 Volume 6. Methodology for Improving the Price Sensitivity of the PIES Oil and Gas Supply Curves* 000216
 Program. Final Annual Report for Period July 1, 1975 to September 30, 1976* Regenerator Design and Reliability 000154
 Emission. Final Report, Phase 2, October 1, 1976 - September 30, 1977*Limit Effects on Exhaust Hydrocarbon 000224
 the Interstate Commerce Commission, Fiscal Year Ending September 30, 1977* #91st Annual Report of 000323
 Allocation and Price Regulations: Supplement to September 1977 Report* From the Mandatory Petroleum 000659
 Compensatory Model of Transportation Behavior Based on Sequential Consideration of Attributes* #A Non- 000518
 #End Use Energy Consumption Data Base: Series 1 Tables* 000191
 Administrative Summary* #Caltech Seminar Series on Energy Consumption in Private Transportation: 000296
 #1972 Census of Wholesale Trade. Subject Series: Petroleum Bulk Stations and Terminals* 000637
 America's Number 1 Passenger Transportation Service* #Report from the American Bus Association. 000020
 #A Profile of Airline Service in the 48 Contiguous States, June 1, 1975* 000136
 1976 and 1975* #Local Service Carriers Passengers Enplanements: Fiscal Years 000137
 #United States Postal Service Electric Vehicle Program* 000159
 #The Potential for Helicopter Passenger Service in Major Urban Areas* 000164
 #Bibliography Energy Extension Service* 000193
 Gasoline Engine into a Diesel Engine for Passenger Car Service* #Considerations in Redesigning a 000275
 Consumption in Rail Transportation. Volume II - Freight Service Measurements* Environment: Estimation of Fuel 000308
 #An Analysis of Marketing Trends in the Automotive Service Industry Through 1975* 000332
 #Bus Passenger Service-Time Distributions* 000355
 a Gasoline Powered Utility Truck in Two Years of a Service Test Program* #Comparison of an Electric Versus 000415
 #Electric-Plywheel Vehicle for Postal Service Applications* 000477
 #Power for the MTA: An Examination of Future Ridership, Service, and Electric Power Requirements for 000508
 Mile Energy Consumption and Costs for Suburban Computer Service Diesel Trains* #Per Passenger- 000746
 #The Effect of Dynamometer Inertia Increment and Power Setting on Emissions and Fuel Economy for Motorcycles. 000711
 Packages* #Severities of Transportation Accidents Involving Large 000173
 Economy in a Compact Car*#Analysis of Regenerated Single- Shaft Ceramic Gas-Turbine Engines and Resulting Fuel 000350
 Process and the Demand for Gasoline: A Market Share Approach* #The Capitol Stock Adjustment 000117
 #Regulating and Insuring Pre-Arranged Ride Sharing* 000770
 #Getting It Off the Shelf: A Methodology for Implementing Federal Research* 000312
 Transportation* #Mode Shift Strategies to Effect Energy Savings in Intercity 000008
 #Shifts in Petroleum Transportation: 1976* 000039
 1977: 5th Annual Historical Review of Production and Shipments of the Recreation Vehicle Industry*and Trends 000517
 #Volumes and Transportation Costs of Fossil Fuels Shipped Between Census Regions* 000570
 Fleets of the World: Oceangoing Steam and Motor Ships of 1,000 Gross Tons and Over as of December 31, 000642
 #Behavior of Car Owners During the Gasoline Shortage* 000600
 #Effect of Energy Shortage and Land Use on Automobile Occupancy Rate* 000061
 #Impact of the Energy Shortage on Travel Patterns and Attitudes* 000552
 #A Statistical Analysis of the World's Merchant Fleets Showing Age, Size, Speed, and Draft by Frequency 000643
 Improvement Targets: Petroleum and Coal Products (SIC 29). Volume 2: Technical Appendices* Efficiency 000261
 Targets in the Transportation Equipment Industry (SIC 37). Volume 1* #Energy Efficiency Improvement 000339
 #A Digital Computer Program for Simulating Electric Vehicle Performance* 000759
 Land Use and Energy Relationships* #Land Use - Energy Simulation Model: A Computer-Based Model for Exploring 000112
 Vehicle* #Computer Simulation of an Advanced Hybrid Electric-Powered 000120
 Determinants of the Demand for Automobiles. Volume II: Simulation of Wide-Open Throttle Vehicle Performance* 000410
 Battery Requirements for Electric Cars* #The Computer Simulation Analysis Using the Pharton E.P.A. Automobile 000559
 #Electrical Component Modeling and Sizing for EV Simulation* 000562
 Fuel Economy in a Compact Car* #Analysis of Regenerated Simulations of Emissions and Fuel Economy* 000731
 #The Impact of the U.S. Energy Single-Shaft Ceramic Gas-Turbine Engines and Resulting 000350
 #The Energy Situation on High Speed Ground Transportation* 000236
 #Electrical Component Modeling and Sizing for EV Simulation* Situation in the Mid-Atlantic Region* 000440
 Analysis of Truck, Belt, Rail, Barge and Coal Slurry and Pneumatic Pipelines. Volumes 1-8*Engineering 000731
 Electric Vehicle R&D Program Review* #State-of-the-Art (SOA) Test and Data Project Review and Near-Term 000531
 #Integrated Economic Social-Environmental Planning* 000194
 #Models for Transportation Problems. Part II: The Social Physics for Modern Societies - The Role of the 000069
 Transportation Planning* #Social, Economic, and Environmental Implications in 000320
 Annotated Bibliography* #Social Organization and Transportation Energy: An 000459
 #Transportation and Land Development: Societal Problems and Interrelations* 000752
 Problems. Part II: The Social Physics for Modern Societies - The Role of the Cities* for Transportation 000243
 Part I: Interaction Between #Physical Foundations for Socio-Economic Modeling for Transportation Planning. 000319
 1975 - May 19, 1976* #Sodium-Sulfur Battery System: Annual Report, May 19, 000374
 #Transport of Solid Commodities Via Freight Pipeline. Volumes I-V* 000774
 Need for Policy Reorientation. Volume II* Solving Public Passenger Transportation Problems: A 000170
 #An Evaluation of Alternative Power Sources for Low-Emission Automobiles* 000073
 #Energy Conditions in the South* Sources of Rolling Resistance in Radial Ply Tires* 000380
 #1975 Energy Conditions in the South* 000527
 000528

PERMUTED TITLE INDEX

Discussion)* #Evaluation of Alternative Station
#A Variable-Displacement
#The Effects of Transportation Systems on the
#The Impact of the U.S. Energy Situation on High
#Tire Rolling Resistance - A
of the World's Merchant Fleets Showing Age, Size,
Individual Cost Minimization Method of Determining Modal
Administration* #Battery Research
and the North Central Region, by Divisions and States (#An
#Representation of Engine Data by Multi-Variate Least-
#Some Conditions of Macroeconomic
#Optimum
An Economic Analysis of the EPCA New Car Efficiency
#Applicability of Federal Motor Vehicle
#Recommended Performance
#Economic and Regulatory Analysis of the Proposed
#A Progress Report: Implementation of the 1975
Oil in Foreign Trade and #Final Environmental Impact
Activity Allocation and Weekend Travel Phase II. #
Discussion)* #Evaluation of Alternative
Propulsion. Progress #High-Performance Batteries for
#Directory of Diesel Fuel
of Wholesale Trade. Subject Series: Petroleum Bulk
#Motor Carrier
#American Trucking Trends, 1976
#Federal Energy Data System (FEDS):
#1978 Motorcycle
in Estimates of Fleet Average Fuel Economy: A
#Transportation
Showing Age, Size, Speed, and Draft by Frequency #A
#1976 Inland Waterborne Commerce
#Computer Air Carrier Traffic
Months Ended December 31, 1976* #Airport Activity
#National Transportation
#National Transportation
#World Road
December 31, 1974* #Freight Commodity
December 31, 1975. Part 5: Carriers by Water*#Transport
December 31, 1975. Part 1: Railroads, Their #Transport
December 31, 1975. Part 3: Freight Forwarders*Transport
December 31, 1975. Part 4: Private Car Lines*#Transport
December 31, 1975. Part 2: Motor Carriers* #Transport
* #Class I Railroads: Financial and Operating
#1975-76
#1975 Business
Administration Annual Report to Congress. Volume III: #The
#Boating
#Current Aviation
#Highway
#Highway
#Rail Passenger
#Automotive Trade
#Some Urbanized Area Journey to Work
Fuels. Volumes 1-4* #Current
Highway Transportation*
Engine for Medium Duty Automotive Application--A
States and #Consumer Income: Money Income and Poverty
#Environmental Development Plan (EDP): Summary and
#Status of the Mineral Industries: 1977*
Performance. Report of the Secretary of #The
and 2*
of December #Merchant Fleets of the World: Oceangoing
#Design Considerations on a Thermal Energy Storage
A Status Report* #The Development of a 150 kW (200 HP)
#A
#Design of the 4-215 D.A. Automotive
Market Share Approach* #The Capitol
#State of the Art in Passenger Rail-Rolling
the United States, by Country: 1977#Supply, Demand, and
#High-Performance Batteries for Stationary Energy
#Design Considerations on a Thermal Energy
Overview and Findings* #Energy
#Application of Energy
#Development Schedules for Vehicle Energy
#Motor Vehicle
#Composite Fiber Plywheel for Energy
#Economic and Technical Feasibility Study for Energy
#Automotive
#Mode Shift
Transportation* #Opportunities and
Improved Motor Vehicle Efficiency. A Report of an #
#Energy Conservation
#Evaluation Methodology for Near Term Devices and
#Tourist Traffic in Small Historic Cities: Analysis,
#Bicycle

Spacings for Rapid Transit Lines (Abridgment) (000490
Spark-Ignition Engine* 000498
Spatial Distributions of Population and Jobs* 000773
Speed Ground Transportation* 000236
Speed Dependent Contribution* 000583
Speed, and Draft by Frequency Grouping as of December
Split Between Three Travel Modes* #An 000033
Sponsored by the U.S. Energy Research and Development 000360
Spring 1976 Survey of Income and Education)* States 000640
Squares Regression* 000409
Stability in Multiregional Models* 000081
Staging of Projects in a Highway Plan* 000557
Standard* #U.S. Gasoline Demand: 000607
Standards for Electric and Hybrid Vehicles* 000696
Standards for Electric and Hybrid Vehicles* 000729
Standby Gasoline Rationing Plan* 000661
Statement of National Transportation Policy* 000151
Statement: Regulations for U.S. Tank Vessels Carrying 000681
Statewide Travel Forecasting Procedures Including 000065
Station Spacings for Rapid Transit Lines (Abridgment) (000490
Stationary Energy Storage and Electric-Vehicle 000036
Stations and Authorized Mercedes-Benz Dealers* 000411
Stations and Terminals* #1972 Census 000637
Statistical Summary* 000026
Statistical Supplement* 000027
Statistical Summary* 000239
Statistical Annual* 000433
Statistical Evaluation* #Uncertainties 000509
Statistical Report on Urban Energy Consumption* 000606
Statistical Data and Information* 000611
Statistical Analysis of the World's Merchant Fleets 000643
Statistics* 000028
Statistics: 12 Months Ended June 30, 1977* 000134
Statistics of Certified Route Air Carriers for 12 000139
Statistics* 000244
Statistics (1965-1976)* 000245
Statistics with Application to Highway Traffic Analyses* 000267
Statistics: 1970-1974. Edition 1975* 000322
Statistics: Motor Carriers of Property, Year Ended 000324
Statistics in the United States for the Year Ended 000325
Statistics in the United States for the Year Ended 000326
Statistics in the United States for the Year Ended 000327
Statistics in the United States for the Year Ended 000328
Statistics in the United States for the Year Ended 000329
Statistics for the Twelve Months Ended December 31, 1975 000330
Statistics on Pupil Transportation* 000468
Statistics. Twentieth Biennial Edition* 000633
Statistics and Trends of Energy Supply, Demand, and 000664
Statistics: 1977* 000679
Statistics: Air Traffic Activity, Fiscal Year 1976* 000687
Statistics, Summary to 1975* 000688
Statistics: 1976* 000692
Statistics in the Northeast Corridor: 1974-75* 000693
Statistics, 1964-76* 000715
Statistics* 000757
Status of Alternative Automotive Power Systems and 000363
Status of Alcohol Fuels Utilization Technology for 000435
Status Report#Development of a 150 kW (200 HP) Stirling 000547
Status in 1975 of Families and Persons in the United 000640
Status of Environmental Development Plans, FY 1978* 000651
Status of the Mineral Industries: 1977* 000672
Status of the Nation's Highways: Conditions and 000699
Status of Federal Energy Conservation Programs. Parts 1 000719
Steam and Motor Ships of 1,000 Gross Tons and Over as 000642
Stirling Engine Automobile* 000038
Stirling Engine Design Manual* 000395
Stirling Engine for Medium Duty Automotive Application-- 000547
Stirling Engine Computer Model for Performance* 000615
Stirling Engine* 000738
Stock Adjustment Process and the Demand for Gasoline: A 000117
Stock Equipment* 000420
Stocks of All Oils by P.A.D. Districts and Imports into 000665
Storage and Electric-Vehicle Propulsion. Progress 000036
Storage Stirling Engine Automobile* 000038
Storage Systems for Automobile Propulsion. Volume 1. 000063
Storage Power Systems to Nonhighway Transportation* 000077
Storage Systems* 000443
Storage of Hydrogen Using Metal Hydrides. Final Report* 000524
Storage* 000532
Storage Plywheels* 000543
Storage of Hydrogen Using Modified Magnesium Hydrides* 000545
Strategies to Effect Energy Savings in Intercity 000008
Strategies for Energy Conservation* 000086
Strategies for Reducing Gasoline Consumption Through 000141
Strategies* 000289
Strategies to Reduce Highway Vehicle Use. Volume I: 000302
Strategies, and Recommendations* 000613
Strategies to Reduce Air Pollution* 000713

REFERRED TITLE INDEX

Cars Powered by Gasoline, Diesel, and Direct Injection
 #The Changing Demographic and Economic
 2010: Implications for Transportation and State Tax
 Discussion)* #Design of Elevated Guideway
 Change*
 #Per Passenger-Mile Energy Consumption and Costs for
 Summary Report for 1976* #Development of Lithium/Metal
 #Design and Testing of Lithium/Iron
 #Requirements for High-Energy Lithium-Aluminum/Iron
 Estimate for the Commercial Manufacture of Lithium-Iron
 May 19, 1976* #Sodium-
 Mileage Guide for New Car Buyers. Volume I: Executive
 #Motor Carrier Statistical
 #Metal Sulfide Batteries at Argonne National Laboratory:
 Systems on Electric and Other Automobiles. Volume I -
 Transportation Energy Conservation Network (TECNET): A
 Daylight #The Daylight Saving Time Study. Executive
 #Driving Cycles for Fuel Economy Testing
 #Federal Energy Data System (FEDS): Statistical
 Consumption in Private Transportation: Administrative
 Demonstration Project Design Phases I and II. Executive
 of Railroad Freight Transportation. Volume I: Executive
 #Transportation Needs
 #Mode/Energy Conservation. Volume I: Executive
 Automotive Fuels Composition: 1985-2000 and Executive
 of Community Planning for Mass Transit. Volume I:
 Program Planning Study (MOPPS). Volume I: Integrated
 FY 1978* #Environmental Development Plan (EDP):
 Supply and Demand and Their Impacts. (Also Executive
 #Highway Statistics,
 Fuel Economy Contractors' Coordination Meeting:
 Report: October, November, and December 1977 and Annual
 #1976 National Travel Expenditure Study:
 #Battery and Electrochemical Systems Program
 #Motor Gasolines,
 Implications for #The Outlook for Automotive Fuel
 States Energy Industry, 1975-90--A #Demand and
 #Econometric Dimensions of Energy Demand and
 #National Studies* #Energy
 Improving the Price Sensitivity of the PIES Oil and Gas
 Volume 8. Methodology for Enabling the PIES Oil and Gas
 Activity to Oil and Natural Gas in the FEA Oil and Gas
 #An Aggregate
 #Energy
 #Energy
 Report to Congress. Volume II: Projections of Energy
 Congress. Volume III: Statistics and Trends of Energy
 Districts and Imports into the United States, by
 (1966-75)* #Minerals in the U.S. Economy: Ten-Year
 Emissions and Fuel Economy for Motorcycles. Technical
 #Motorcycle Usage. Technical
 and Economical Considerations of the Use of Self-
 at One Atmosphere of Advanced Catalysts and Catalyst
 #The Influence of Road
 - Journal #Hydrodynamic Air Lubricated Compliant
 #The Automobile Industry in 1976: An International
 #Fleet Owner Fuels and Lubricants
 #Public Opinion
 Travel Demand* #Pricing in Urban Transportation: A
 1967 Census of Transportation. Commodity Transportation
 1967 Census of Transportation. Commodity Transportation
 #Annual
 Central Region, by Divisions and States (Spring 1976
 United States in 1973 and 1976: The Nationwide Boating
 #1976 National Travel
 #Survey: Full Year Report*
 #Survey of State Travel Offices: 1977-1978*
 #Surveys, Transit Planning, and Automobile-Use
 #Surveys, Code Book and Processing Guide* #Lifestyles
 #Surveys: Petroleum Refineries in the United States and
 #Symposium on Alcohol Fuel Technology - Methanol and
 #Symposium Proceedings*
 #Symposium. Volumes 1 and 2*
 #Symposium on Automotive Propulsion Systems. Volumes I
 #Synchrude* #Performance
 #Synthesis, Use as a Fuel, Economics, and Hazards ()
 #Synthesized Theory*
 #Synthesized Engine Oil Providing Fuel Economy Benefits*
 #Synthetic Measures of Truck Operating Times Between the
 #Synthetic Transportation Fuel Options*
 #Synthetic Fuel Versus Battery/Electric System*
 #System. Phase II Final Report: Design Definition*Hybrid
 #System. Phase I: Final Report* Engine/Plywheel: Hybrid
 #System of Accounts and Records and Reporting System.
 #System. Volumes 1-4*#Urban Mass Transportation Industry
 #Investigation of

*REPUTED TITLE INDEX

of Urban Land Use to Achieve Improved Transportation
 #Transportation
 Power System for Near Term Application. Volume 1:
 Application. Volume 1: System Description Volume 2:
 Description #Battery-Flywheel Hybrid Electric Power
 System Optimization of an Experimental Engine Control
 System Over the Federal Emissions Driving #Transient
 #Emissions and Fuel Economy of the Turbulent Flow
 Demand Model* #Project Independence Evaluation
 Improving the Price #Project Independence Evaluation
 Enabling the PIES Oil #Project Independence Evaluation
 Exploratory Activity #Project Independence Evaluation
 Electric Utility #Project Independence Evaluation
 Model of the Project Independence Evaluation
 Model of the Project #Project Independence Evaluation
 Federal Energy Data
 a Net Energy Assessment: The Washington, D.C. Metrorail
 Costs and Energy Efficiency of a Dual-Mode
 Automotive Power Systems. Part 1: Morphological
 #Transportation
 of the Phase I Comprehensive Human Resources Data
 Flow Chart. Phase I: Comprehensive Human Resources Data
 Resources Data System* #System
 Energy Consumption of the Commercial Air Transportation
 #The Townmobile Electric City Transit
 #A Fuel Vapor Injection/Igniter
 #Sodium-Sulfur Battery
 #Automotive Data Base for Manufacturing Assessment
 Study of an Electric Motor-Transmission
 Labeling* #Development of a
 Study of an Electric Motor-Transmission
 #Evaluation of Road and Transit
 Propulsion: Synthetic Fuel Versus Battery/Electric
 Energy Consumption of the Commercial Air Transportation
 Action and Federal Expenditures Related to the Final
 1970 - December 1976* #Transportation
 #New Automotive Power
 of Alternative Low Emissions Automotive Power
 Program* #Increased Fuel Economy in Transportation
 and Findings* #Energy Storage
 #Application of Energy Storage Power
 Prototype Inductive Power Coupling for Electric Highway
 #Air Conditioning and Heating
 Effectiveness and Feasibility of Regenerative Braking
 Effectiveness and Feasibility of Regenerative Braking
 #Environmental Development Plan: Electric Vehicle
 of Alternate Fuel Effects in Continuous Combustion
 #Hydrogen-Fueled Railroad Motive Power
 #Energy Study of Automated Guideway Transit (AGT)
 Transportation. Volume 2: Description of Operating
 Power Systems. Part 1: Morphological Systems and
 Analysis* #Advanced Automotive Power
 The Social Physics for Modern Societies - The Role of
 #Current Status of Alternative Automotive Power
 Natural Gas from the Arctic: The Alternative
 on the Effects of Energy Constraints on Transportation
 Versus a Consumer Orientation in Public Transportation
 #Development Schedules for Vehicle Energy Storage
 Fourth International Symposium on Automotive Propulsion
 in Advanced Boiler Technology for Rankine Cycle Power
 Particular #Institutional Factors in Transportation
 of Rail Transit Vehicles in Urban Mass Transit
 #Characteristics of Urban Transportation
 Options* #Comparative Costs of Urban Transportation
 #Highway Vehicle
 on the "Effects of Energy Constraints on Transportation
 #Battery and Electrochemical
 Jobs* #The Effects of Transportation
 #End Use Energy Consumption Data Base: Series 1
 #Revised Input-Output
 #Catalog of
 Environmental Impact Statement: Regulations for U.S.
 Tank Vessels Carrying Oil in Foreign Trade and Foreign
 2: Technical Appendices* #Energy Efficiency Improvement
 37). Volume 1* #Energy Efficiency Improvement
 Freight Transportation. Volume 3: Regulation and
 Use in the Marine Transportation Industry. Volume IV:
 Industry. Volume IV: Task III-Efficiency Improvements,
 the Phase I Comprehensive Human Resources Data System.
 Regulations. Volume I and #Report of the Presidential
 the Internal Combustion Engine for Automotive Vehicles,
 #President's Proposed Energy
 1985-2010: Implications for Transportation and State
 #The Impact of the President's Proposed Gasoline
 the President's Proposed Gasoline Tax and Gas-Guzzler
 #Energy Program 8: Energy
 System Performance* #Directing the Evolution 000140
 System Management* 000143
 System Description Volume 2: System Design* Electric 000166
 System Design* Electric Power System for Near Term 000166
 System for Near Term Application. Volume 1: System 000166
 System Over the Federal Emissions Driving Schedule* 000182
 System Optimization of an Experimental Engine Control 000182
 System for European 8-Cyl Engines* 000203
 System (PIES) Documentation. Volume 2. PIES Econometric 000214
 System (PIES) Documentation. Volume 14. A User's Guide* 000215
 System (PIES) Documentation. Volume 6. Methodology for 000216
 System (PIES) Documentation. Volume 8. Methodology for 000217
 System (PIES) Documentation. Volume 9. Allocation of 000218
 System (PIES) Documentation. Volume 13. Coal and 000219
 System* (PIES) Documentation. Volume I: The Integrating 000220
 System (PIES) Documentation. Volume I: The Integrating 000220
 System (PEBS): Statistical Summary* 000239
 System. Volumes I and II (Appendices)* Study for 000250
 System* 000291
 System and Systems Analysis* #Advanced 000305
 System Management: State of the Art* 000344
 System. Task 8, Final Report* and Application 000346
 System* #System 000347
 System Flow Chart. Phase I: Comprehensive Human 000347
 System. Volume I: Technical Analysis* for Reducing the 000356
 System* 000367
 System. Final Report* 000373
 System: Annual Report, May 19, 1975 - May 19, 1976* 000374
 System* 000378
 System for Electric Vehicles: Technical Report* 000389
 System of Comparable Car Classes for Fuel Economy 000405
 System for Electric Vehicles* #Characterization 000407
 System Requirements for Alternative Urban Forms* 000529
 System* #Long Term Energy Alternatives 000599
 System. Volume II: Market and Economic Analyses* the 000737
 System Plan of the U.S. Railway Association* 000758
 Systems Center Bibliography of Technical Reports: July 000016
 Systems* 000044
 Systems and Appendices* Impact of Mass Production 000046
 Systems by Use of Energy Management - Third Year's 000056
 Systems for Automobile Propulsion. Volume 1. Overview 000063
 Systems to Nonhighway Transportation* 000077
 Systems* of the Performance and Characteristics of a 000079
 Systems for Trucks* 000161
 Systems on Electric and Other Automobiles. Volume I - 000167
 Systems on Electric and Other Automobiles. Volume II: 000168
 Systems, FY 1978* 000195
 Systems* #Fundamental Characterization 000208
 Systems, A Feasibility Study* 000234
 Systems* 000293
 Systems* #Energy Study of Rail Passenger 000294
 Systems Analysis* #Advanced Automotive 000305
 Systems. Part 1: Morphological System and Systems 000305
 Systems Models for Transportation Problems. Part II: 000320
 Systems and Fuels. Volumes 1-4* 000363
 Systems* #Transporting 000406
 Systems* #Third National Conference 000418
 Systems* #Mass Transit Guidelines 000439
 Systems* 000443
 Systems. Volumes I and II* #Proceedings of the 000478
 Systems* #Applied Studies 000487
 Systems and Their Potential for Bias Toward Vehicles of 000546
 Systems* #Model for Cost-Effective Maintenance 000548
 Systems: A Handbook for Transportation Planners* 000554
 Systems Study of Two Synthetic Transportation Fuel 000568
 Systems* 000582
 Systems Contractors Coordination Meeting* 000656
 Systems* #Fourth National Conference 000730
 Systems Program Summary: FY 1977* 000753
 Systems on the Spatial Distributions of Population and 000773
 Tables* 000191
 Tables for the United States: 1967* 000747
 Tabulations: 1974 National Transportation Study* 000701
 Tank Vessels Carrying Oil in Foreign Trade and Foreign 000681
 Tank Vessels that Enter the Navigable Waters of the 000681
 Targets: Petroleum and Coal Products (SIC 29). Volume 000261
 Targets in the Transportation Equipment Industry (SIC 000339
 Tariffs* #Energy Study of Railroad 000491
 Task III-Efficiency Improvements, Task IV-Industry 000082
 Task IV-Industry Future* in the Marine Transportation 000082
 Task 8, Final Report* Development and Application of 000346
 Task Force on Reform of Federal Energy Administration 000503
 Task II. Final Report* #Feasibility Test on Compounding 000616
 Tax Measures Costly for Consumers* 000032
 Tax Structures* and Alternative Vehicle Engines, 000052
 Tax and Gas-Guzzler Tax on Gasoline Consumption* 000608
 Tax on Gasoline Consumption* #The Impact of 000608
 Tax Proposals Relating to Transportation* 000630

PERMUTED TITLE INDEX

#Analysis of State and Local
 #Road User and Property
 #A Purpose-Built Electric
 Survey - Commodity Groups: Part 2, Selected Major
 #Fuel Economy Through
 #Fuel Economy Through
 #Fuel Economy through
 #Fuel Economy through
 #Fuel Economy through
 #Transportation Systems Center Bibliography of
 Scenarios* #Transportation Energy Scenario Analysis
 #Transbus:
 II. Urban Data: Milwaukee - Washington, Notes and
 Petroleum and Coal Products (SIC 29). Volume 2:
 and Strategies to Reduce Highway Vehicle Use. Volume I:
 of the Commercial Air Transportation System. Volume I:
 Transmission for Electric Vehicles: Development Plan.
 Motor-Transmission System for Electric Vehicles:
 #Passenger Car Fuel Economy in Short Trip Operation.
 Self-Supporting Plastic Sandwich Constructions in
 #Economic and
 Setting on Emissions and Fuel Economy for Motorcycles.
 #Motorcycle Usage.
 #Impact of Selected Energy Conservation
 #Application of New Energy Analysis to Consumer
 for and Deployment of Inexhaustible Energy Resource
 Duty Highway Fleets: The Potential for Alternative
 Concepts* #Upgrading Automotive Gas Turbine
 #Proceedings: International Symposium on Alcohol Fuel
 New Automotive Engines* #Trial Application of the
 #Electric Vehicle Research, Development, and
 #1977 Plywheel
 Computer-Based Resource Accounting Model for Automobile
 #Electric Car
 April 1977* #Automotive Diesel
 #Airframe
 Gas Turbine. Volume 2: Ceramic Turbine Rotar
 #Status of Alcohol Fuels Utilization
 #Applied Studies in Advanced Boiler
 Inexhaustible Energy Resource Technologies: Report of
 #The Transportation Energy Conservation Network
 Scenarios of Transportation Energy Conservation Using
 #Solar Technology* #Brittle Materials Design, High
 Consumption* #A Study of the Effect of Oil and Coolant
 #Near-
 #Battery-Plywheel Hybrid Electric Power System for Near
 of-the-Art (SOA) Test and Data Project Review and Near-
 #Near-
 Use. Volume I: #Evaluation Methodology for Near-
 #Near-
 #Near-
 #Near-
 #Fuel and Energy Price Forecasts: Quantities and Long-
 Versus Battery/Electric System* #Long
 Trade. Subject Series: Petroleum Bulk Stations and
 #The Influence of Road Surface
 Demand for Gasoline: Application of Commodity Hierarchy
 #Travel Behavior - A Synthesized
 Decisions* #Application of Choice
 #Contribution to the
 #Will
 #Design Considerations on a
 in Transportation Systems by Use of Energy Management -
 1 and 2* #Proceedings of the
 Constraints on Transportation Systems*
 #Simulation of Wide-Open
 Report on the Operation and Effects of Daylight Saving
 Operation and Effects of Daylight #The Daylight Saving
 #Walk
 #Economic Approach to Value of
 #Modal Choice and the Value of Travel
 #Review of Studies Leading to Existing Values of Travel
 #Bus Passenger Service-
 #Conceptual Problems in Evaluation of Travel
 #Applications of Value of Travel
 #Value of Travel
 #Applications of Value of Travel
 Alternatives* #Derivation of Values of
 Definition)* #The Role of Travel
 #A Cycle
 #Value
 Efficiency of Electric Vehicles from Track Tests*
 #The Influence of Road Surface Texture on
 #Sources of Rolling Resistance in Radial Ply
 Highway Safety Literature* #Motor Vehicle
 #Highway Safety Effects of the Energy Crisis on U.S.
 Taxation of American Railroads* 000617
 Taxes on Selected Motor Vehicles: 1973* 000575
 Taxi* 000751
 TCC 3-Digit Classes* Commodity Transportation 000634
 Teamwork: The Science of Saving Fuel* 000090
 Teamwork: Operating for Fuel Economy* 000091
 Teamwork: Driving for Fuel Economy* 000092
 Teamwork: Purchasing for Fuel Economy* 000093
 Teamwork: Pupil Transportation and Energy Conservation* 000094
 Technical Reports: July 1970 - December 1976* 000016
 Technical Report No. 1: Examination of Four Existing
 Technical Data* 000067
 Technical Data* 000085
 Technical Appendixes* Data: Atlanta - Miami. Volume 000097
 Technical Appendixes* Efficiency Improvement Targets: 000261
 Technical Report. Volume II: Appendixes* Term Devices 000302
 Technical Analysis* for Reducing the Energy Consumption 000356
 Technical Report* #An Advanced Electric Motor 000388
 Technical Report*#Characterization Study of an Electric 000389
 Technical Progress Report for Period May 1, 1977 - 000494
 Technical and Economical Considerations of the Use of 000512
 Technical Feasibility Study for Energy Storage Plywheels 000543
 Technical Support Report for Regulatory Action* Power 000711
 Technical Support Report for Regulatory Action* 000712
 Technologies on Baseline Demands* 000179
 Technologies* 000235
 Technologies: Report of Technology Study Panel, 000614
 Technologies in Fleets Operated by Corporations and 000744
 Technology. An Experimental Evaluation of Improvement 000034
 Technology - Methanol and Ethanol* 000068
 Technology Implementation Planning Process: Selected 000099
 Technology-Foreign (U)* 000104
 Technology Symposium Proceedings* 000119
 Technology Impact Assessment* # 000176
 Technology for Demonstration and Development* 000278
 Technology Program: Final Report, Period June 1975- 000298
 Technology for Energy Efficient Transport Aircraft* 000370
 Technology* #Brittle Materials Design, High Temperature 000402
 Technology for Highway Transportation* 000435
 Technology for Rankine Cycle Power Systems* 000447
 Technology Study Panel, Inexhaustible Energy Resources 000614
 (TECHNET): A Summary Description* #Ten 000180
 TECHNET* 000181
 Temperature Gas Turbine. Volume 2: Ceramic Turbine 000402
 Temperatures on Diesel Engine Brake Specific Fuel 000080
 Tern Advanced Electric Vehicle Batteries* 000111
 Tern Application. Volume 1: System Description Volume 000166
 Tern Electric Vehicle R&D Program Review* #State- 000194
 Tern Electric Vehicle Program: Phase I, Final Report* 000288
 Tern Devices and Strategies to Reduce Highway Vehicle 000302
 Tern Electric Vehicle Program: Phase 1, Final Report* 000550
 Tern Electric Vehicle Program. Phase 1, Final Report* 000566
 Tern Marginal Prices. Final Report. Volume I* 000597
 Tern Energy Alternatives Propulsion: Synthetic Fuel 000599
 #Terminal Area Forecast - 1978-1988* 000684
 Terninals* #1972 Census of Wholesale 000637
 Ternature on Tire Rolling Resistance* 000175
 Theory* 000116
 Theory* 000237
 Theory to Residential Location and Related Household 000372
 Theory of the Electric Vehicle* 000749
 There Be a Materials Crisis? 000390
 Thermal Energy Storage Stirling Engine Automobile* 000038
 Third Year's Program* #Increased Fuel Economy 000056
 Third International Electric Vehicle Symposium. Volumes 000192
 #Third National Conference on the Effects of Energy 000418
 #Third Annual PAA Forecast Conference Proceedings* 000685
 Throttle Vehicle Performance* 000410
 Time* Saving Time Study. Executive Summary - Final 000189
 Time Study. Executive Summary - Final Report on the 000189
 Time from Vehicle to Final Destination* 000232
 Time and Transportation Choice* 000271
 Time* 000292
 Time* 000295
 Time* 000355
 Time Distributions* 000521
 Time* 000522
 Time to Travel Demand Estimation* 000522
 Time* 000578
 Time to Economic Evaluation of Transport Investment 000602
 Time from Travel Demand Models* 000603
 Time Limits in Urban Growth (A Postulated Urban Area 000739
 Timer for Testing Electric Vehicles* 000588
 Timing--Its Effect on Emissions and Fuel Economy* 000059
 Tire Aerodynamic Friction and Motor-Driveline 000088
 Tire Rolling Resistance* 000175
 Tire Rolling Resistance - A Speed Dependent Contribution 000583
 Tires* 000380
 Tinting and Registration: A Subject Bibliography from 000230
 Toll Roads* 000110

DESCRIPTED TITLE INDEX

Output*	Engines for Tomorrow's Passenger Cars*	000768
	The Ton-Mile Down It Properly Measure Transportation	000228
	Monthly Truck Tonnage Report*	000028
	Weekly Truck Tonnage Report*	000028
World Oceangoing Steam and Motor Ships of 1,000 Gross	Tons and Over as of December 31, 1975* Fleets of the	000682
Energy Analysis: A New Public Policy	Tools*	000251
Transportation Energy Conservation:	Tools to Meet the National Objective*	000159
Profiles of Scheduled Air Carrier Passenger Traffic for	Top 100 U.S. Airports, August 6, 1976*	000707
The 1978 Chrysler Torque Converter Lock-Up Clutch*	Totality Indexes for Evaluating Environmental Impacts	000882
of Highway Alternatives*	Tourism and Vacation Travel: State and Local Government	000006
Planning (A Bibliography with Abstracts)*	Tourist Traffic in Small Historic Cities: Analysis,	000611
Strategies, and Recommendations*	Township Electric City Transit System*	000167
	Toyota*	000121
Development of Electric Vehicles at	Track Tests*	000008
Motor-Driven Efficiency of Electric Vehicles from	Track Data Characteristics for New York City - Buffalo	000419
Corridor*	Trade-offs Between Energy Efficiency and Physical	000519
Distribution	Trade: 1970*	000636
Analysis of the Incremental Cost and	Trade: Subject Series: Petroleum Bulk Stations and	000617
and International Transportation of U.S. Foreign	Trade: Foreign Trade: Bunker Fuels, Oil and Coal Laden	000618
Terminals*	Trade: Bunker Fuels, Oil and Coal Laden in the United	000618
In the United States on Vessels Engaged in Foreign	Trade and Foreign Tank Vessels that Enter the Navigable	000681
States on Vessels Engaged in	Trade Stations, 1968-76*	000715
United States Foreign	Tradeoffs for Reducing the Energy Consumption of the	000717
for U.S. Tank Vessels Carrying Oil in Foreign	Tradeoffs for Reducing the Energy Consumption of the	000717
Automotive	Traffic Statistics: 12 Months Ended June 30, 1975*	000118
Commercial Air Transportation System.	Traffic, Revenue, Yield, Employment and Average On-	000135
Commercial Air Transportation System.	Traffic: Relations Derived from Urban Driving Schedule	000208
Cost/Benefit	Traffic*	000205
Computer Air Carrier	Traffic Analysis*	000267
Flight Trip Length by	Traffic Density in the Rail Freight Industry*	000286
Data*	Traffic in Small Historic Cities: Analysis, Strategies,	000611
Exhaust Emissions, Fuel Consumption and	Traffic and Motor Vehicle Safety Act of 1966*	000615
Emissions Consumption in Urban	Traffic Patterns of Small Manufacturing Plants* Census	000615
Statistics with Application to Highway	Traffic Activity, Fiscal Year 1976*	000627
Economics of	Traffic for Top 100 U.S. Airports, August 6, 1976*	000707
Tourist	Traffic Count Program, Volume 1: Design and	000717
National	Traffic Volume and Weight Data for 1971 and Their	000621
of Transportation. Commodity Transportation Survey -	Trailer Manufacturers Association Directory*	000412
Current Aviation Statistics: Air	Train Design for a State-of-the-Art Electric Vehicle*	000589
Profiles of Scheduled Air Carrier Passenger	Trains*	000786
Development, Volume II: Program Documentation*	Per Passenger-Mile Energy Consumption	000088
Evaluation*	Transbus Engineering Test Program*	000088
Truck	Transbus: Technical Data*	000581
1977-78 Truck	Transbus Public Testing and Evaluation Program*	000182
Preliminary Power	Transient System Optimization of an Experimental Engine	000072
Preliminary Power	Transit Fact Book, 1977-78 Edition*	000070
and Costs for Suburban Computer Service Diesel	Transit (Abridgment) (Discussion)*	000098
	Transit Schedule Adherence Monitoring*	000119
Control System Over the Federal Railroads Driving	Transit Program: Message to the Congress Proposing	000151
Design of Elevated Guideway Structures for Light Rail	Transit Operations: 1960-1976*	000293
Effect of Automatic Vehicle Monitoring Error on	Transit Planning, and Automobile-Use Constraints*	000108
Legislation*	Transit (Abridgment)*	000311
Highway and	Transit*	000362
Trends in Bus	Transit System*	000167
Energy Study of Automated Guideway	Transit Guidelines Versus a Consumer Orientation in	000819
Attitude Surveys,	Transit Planning*	000860
An Aggregate Supply Model for Urban Bus	Transit Development*	000461
Rail	Transit*	000474
Public Transportation Systems*	The Townships Electric City	000880
The Townships Electric City	Transit Fare Increase (Abridgment)*	000480
Transit	Transit Line Extension on Residential Land Use*	000480
Analysis of Preference for Mixed-Mode	Transit Lines (Abridgment) (Discussion)*	000480
Analysis of User Response to the 1975 New York City	Transit as an Energy Saving Option*	000502
Impact of	Transit Worker: Urban Demands for Public Transportation	000519
The Potential for	Transit Costs During Peak and Off-Peak Hours*	000529
Where	Transit System Requirements for Alternative Urban Forms*	000515
Evaluation of Road and	Transit Vehicle*	000588
The Design and Development of a Hybrid-Electric Urban	Transit Vehicles in Urban Mass Transit Systems*	000588
Model for Cost-Effective Maintenance of Rail	Transit Systems* Model for Cost-Effective	000588
Maintenance of Rail Transit Vehicles in Urban Mass	Transit Attitudes (Abridgment)* Bracketing Approach	000588
Using Product Diffusion Knowledge to Measure Consumer	Transit*	000588
Strategy for Implementing Integrated Regional	Transit Vehicles*	000588
Program (POWER) for Power Requirements of Mass	Transit, Volume 1: Summary*	000612
Assessment of Community Planning for Mass	Transit: State-of-the-Art Overview*	000701
Light Rail	Transit Construction*	000762
Energy Costs of Heavy Rail	Transit Planning and Operations*	000717
Hybrid Propulsion Configuration with Electrical	Transmission System, Phase II Final Report: Design	000012
Hybrid Propulsion Configuration with Electrical	Transmission System, Phase II Final Report* Flywheel;	000012
Technical Report*	Transmission for Electric Vehicles: Development Plan,	000188
Report*	Transmission System for Electric Vehicles: Technical	000189
Characterization Study of an Electric Motor	Transmission System for Electric Vehicles*	000206
Characterization Study of an Electric Motor	Transmitted to the Congress January 1976* Together with	000121
The Annual Report of the Council of Economic Advisors	Transport Fuel Consumption and Travel Demand: A Review	000125
and Bibliography* Price: Electricity Estimation for	Transport Statistics in the United States for the Year	000126
Ended December 31, 1975, Part 1: Carriers by Water*	Transport Statistics in the United States for the Year	000127
Ended December 31, 1975, Part 1: Railroads, Trail	Transport Statistics in the United States for the Year	000128
Ended December 31, 1975, Part 1: Freight Forwarders*	Transport Statistics in the United States for the Year	000128
Ended December 31, 1975, Part 1: Private Car Lines*	Transport Statistics in the United States for the Year	000128

PERMUTED TITLE INDEX

ended December 31, 1975. Part 2: Motor Vehicles*	Transportation Statistics in the United States for the Year 1977	107129
Air	Transport 1978*	000351
Airframe Technology for Energy Efficient	Transport Aircraft*	000370
Methodology of Comparing Modes in Urban	Transport*	000416
The Total Energy Cost of Freight	Transport*	000525
Value of Travel Time to Economic Evaluation of	Transport Investment Alternatives*	000602
Volumes 1-V*	Transport of Solid Commodities Via Freight Pipeline.	000774
	Transportation (A Bibliography with Abstracts)*	000005
Bibliography with Abstracts)*	Transportation. Part 1. National and General Studies (A	000007
Shift Strategies to Effect Energy Savings in Intercity	Transportation*	000008
Reports: July 1970 - December 1976*	Transportation Systems Center Bibliography of Technical	000016
American Bus Association. America's Number 1 Passenger	Transportation Service*	000020
Records and Reporting System. Volumes 1-4*	Transportation Industry Uniform System of Accounts and	000029
	Transportation: Implications of the Broad-Cut Option*	000030
	Transportation: 1976*	000039
	Transportation Issues in Consumer Motivation*	000050
Vehicle Engines, 1985-2010: Implications for	Transportation and State Tax Structures*and Alternative	000052
Third Year's Program*	Transportation Systems by Use of Energy Management -	000056
Increased Fuel Economy in	Transportation Planning*	000066
Use of Forecasting Models in	Transportation Energy Scenario Analysis Technical	000067
Report No. 1: Examination of Four Existing Scenarios*	Transportation-Related Data Bases Extracted from the	000071
National Index of Energy and Environmental Data Bases.	Transportation Energy Conservation*	000075
Report on the Aspects of Automotive Fleet Operations on	Transportation*	000077
of Energy Storage Power Systems to Nonhighway	Transportation System*	000078
of the Feasibility of a Dual Mode Electric	Transportation Industry. Volume IV: Task III-Efficiency	000082
Improvements, Task IV-	Transportation Planning in Rebuilding City Centers: An	000087
Examination of Cedar-	Transportation and Energy Conservation*	000094
	Transportation Effective Energy Management (E-TEEN). A	000095
Fuel Economy through Teamwork: Pupil	Transportation*	000101
Management Handbook*	Transportation Choice Behavior*	000102
Encouraging School	Transportation and Construction*	000103
Analyses of the National Energy Plan: The Effects on	Transportation* for Travel Demand Analyses of Program	000107
The Role of Accessibility in Basic	Transportation System Performance*	000140
Conference Report: Energy Conservation in	Transportation Research Board Workshop*Through Improved	000141
Measures to Promote Carpools, Vanpools, and Public	Transportation Construction*	000142
the Evolution of Urban Land Use to Achieve Improved	Transportation System Management*	000143
Motor Vehicle Efficiency. A Report of an Informal	Transportation*	000144
Optimizing the Use of Materials and Energy in	Transportation Alternatives: Evolution of Federal Policy	000145
	Transportation Policy*	000151
	Transportation Problems: A Need for Policy	000170
Implementation of the 1975 Statement of National	Transportation Interface Facilities*	000172
Reorientation. Volume II*	Transportation Accidents Involving Large Packages*	000173
Solving Public Passenger	Transportation Energy Conservation Network (TECNET): A	000180
Methodology for the Design of Urban	Transportation Energy Conservation Using TECNET*	000181
Severities of	Transportation Sector*	000183
	Transportation Sector*	000187
Summary Description*	Transportation Output?*	000228
	Transportation*	000236
Ten Scenarios of	Transportation and Land Development: Societal Problems	000243
and Engine Horsepower Projections for the Highway	Transportation Statistics*	000244
Energy Consumption in the	Transportation Statistics (1965-1976)*	000245
The Ton-Mile: Does It Properly Measure	Transportation Modes*	000258
of the U.S. Energy Situation on High Speed Ground	Transportation Energy Conservation Data Book. Edition 1*	000268
and Interrelations*	Transportation Choice*	000271
	Transportation. Volume 2: Description of Operating	000294
	Transportation: Administrative Summary*	000296
	Transportation Facilities: What Can We Learn from	000306
	Transportation. Volume I: Analytical Model* and	000307
	Transportation. Volume II - Freight Service Measurements	000308
Segmentations for Modeling Consumers' Preferences for	Transportation Energy Conservation Data Book: A	000314
Regional	Transportation Planning. Part I: Interaction Between	000319
Economic Approach to Value of Time and	Transportation Problems. Part II: The Social Physics	000320
Systems*	Transportation Research Information Resources*	000331
Energy Study of Rail Passenger	Transportation Equipment Industry (SIC 37). Volume 1*	000339
Caltech Seminar Series on Energy Consumption in Private	Transportation System Management: State of the Art*	000344
of Urban Development and Planning and Developing	Transportation: A Review and Evaluation*	000354
the Environment: Estimation of Fuel Consumption in Rail	Transportation System. Volume I: Technical Analysis*for	000356
the Environment: Estimation of Fuel Consumption in Rail	Transportation and Energy: The Potential Savings of	000358
Selected, Annotated Bibliography. Edition 2*	Transportation Energy Conservation: Tools to Meet the	000359
Physical Foundations for Socio-Economic Modeling for	Transportation (A Bibliography with Abstracts)*	000368
Modern Societies - The Role of	Transportation. Volume III: Issues and Problems*	000376
Systems Models for	Transportation Systems*	000418
TRISNET: Directory to	Transportation. Volume 1: Executive Summary*	000424
Energy Efficiency Improvement Targets in the	Transportation. Volume 2: Industry Description*	000425
	Transportation. Volume 4: Efficiency Improvements and	000426
	Transportation Programming and Management*	000427
Baseline Energy Consumption Forecasts for	Transportation: Options for Federal Assistance*	000434
Reducing the Energy Consumption of the Commercial Air	Transportation*	000435
different Modes*	Transportation Construction Programs*	000438
National Objective*	Transportation Systems*	000439
	Transportation Forecasting*	000446
Natural Gas: Marine	Transportation in the 1970's and 1980's*	000447
National Energy	Transportation Characteristics*	000451
Conference on the Effects of Energy Constraints on	Transportation Mode*	000454
Energy Study of Railroad Freight	Transportation*	000455
Energy Study of Railroad Freight	Transportation Characteristics of Truck, Rail, and	000456
Industry Future*	Transportation Planning*	000459
	Transportation Planning*	000461
Urban Mass		
of Alcohol Fuels Utilization Technology for Highway		
Multiproject Scheduling for		
Guidelines Versus a Consumer Orientation in Public		
Highway and Urban		
Freight		
The Bicycle as a		
Planning and Programming for		
Water Freight*		
Social, Economic, and Environmental Implications in		
Public		

PERNOTED TITLE INDEX

	#Regional Bus	Transportation*	000462
Efficiencies, and Prospects for Various Modes of		Transportation*	000464
Report to the Energy	#Scope and Plan for a Study of	Transportation Energy Research Needs and Priorities. A	000465
	#1975-76 Statistics on Pupil	Transportation*	000468
	#Public Opinion Survey on Energy and	Transportation*	000472
	#Bibliography for	Transportation Energy Conservation*	000479
	#Energy Study of Railroad Freight	Transportation. Volume 3: Regulation and Tariff*	000491
Elasticity of Travel Demand*	#Pricing in Urban	Transportation Needs Summary*	000504
and Electric Power Requirements for Metropolitan		Transportation: A Survey of Empirical Evidence on the	000505
		Transportation Authority Facilities*Ridership, Service,	000508
		Transportation Policies and Energy Conservation*	000513
Consideration of Attributes#A Non-Compensatory Model of		Transportation Behavior Based on Sequential	000514
#Where Transit Works: Urban Densities for Public		Transportation*	000519
Analysis of Truck, Belt, Rail, Barge #Comparative Coal		Transportation Costs: An Economic and Engineering	000521
#Evaluation of Interaction Between Rural Regional		Transportation and Energy Availability*	000533
Analysis*	#Intercity Passenger	Transportation: Mode/Energy Conservation. Volume II:	000541
Executive Summary*	#Intercity Passenger	Transportation: Mode/Energy Conservation. Volume I:	000542
Toward Vehicles of Particular #Institutional Factors in		Transportation Systems and Their Potential for Bias	000546
of Urban Transportation Systems: A Handbook for		Transportation Planners*	000554
Planners*	#Characteristics of Urban	Transportation Systems: A Handbook for Transportation	000554
	#Systems Study of Two Synthetic	Transportation Fuel Options*	000568
Census Regions*	#Volumes and	Transportation Costs of Fossil Fuels Shipped Between	000570
		Transportation Energy Conservation Data Book: Edition 2*	000577
		Transportation Energy Conservation and Demand*	000579
	#Comparative Costs of Urban	Transportation Systems*	000582
		Transportation, Trucks and Fuel Conservation*	000596
		Transportation Planning Effectiveness*	000600
Policy Options in the Northeast*	#An Analysis of	Transportation Energy Consumption and Conservation	000609
		Transportation Statistical Data and Information*	000611
		Transportation Alternatives*	000618
for Making a Quantitative Assessment of Passenger		Transportation* #A Methodology	000623
by Objectives Program of the Florida Department of		Transportation* #Management	000623
	#A Comparative Analysis of Urban	Transportation Requirements, Volumes I and II*	000624
		Transportation*	000630
#Energy Program 8: Energy Tax Proposals Relating to		Transportation Survey - Commodity Groups: Part 2,	000634
Selected	#1967 Census of Transportation. Commodity	Transportation. Commodity Transportation Survey -	000634
Commodity Groups: Part 2, Selected	#1967 Census of	Transportation Survey - Traffic Patterns of Small	000635
Manufacturing #1967 Census of Transportation. Commodity		Transportation. Commodity Transportation Survey -	000635
Traffic Patterns of Small Manufacturing #1967 Census of		Transportation of U.S. Foreign Trade: 1970*	000636
	#Domestic and International	Transportation Energy Conservation, FY 1977*	000647
	#Environmental Development Plan (EDP):	Transportation Fiscal Year 1979 Budget in Brief*	000674
	#U.S. Dept. of	Transportation. 10th Annual Report: Fiscal Year 1976*	000675
		Transportation Planning: PLANPAC/BACKPAC. General	000689
Information Manual*	#Computer Programs for Urban	Transportation Characteristics of School Children*	000690
	#Nationwide Personal Transportation Study:	Transportation Study: Transportation Characteristics of	000691
School Children*	#Nationwide Personal	and Personal Characteristics of	000691
	#Nationwide Personal Transportation Study: Mode of	Transportation Study: Mode of Transportation and	000699
Personal Characteristics of	#Nationwide Personal	Transportation to the United States Congress, Pursuant	000699
Conditions and Performance. Report of the Secretary of		Transportation Study. Manual I: General Information*	000700
	#1974 National	Transportation Study*	000701
	#Catalog of Tabulations: 1974 National	Transportation: State-of-the-Art Overview*	000702
	#Rural Passenger	Transportation: Primer*	000704
	#Rural Passenger	Transportation Safety Information Report: October,	000706
November, and December 1977 and Annual Summary*		Transportation Act of 1964 and Related Laws, as Amended	000708
Through February 5, 1976*	#Urban Mass	Transportation Systems** #Fourth National	000730
Conference on the "Effects of Energy Constraints on		Transportation System. Volume II: Market and Economic	000737
Reducing the Energy Consumption of the Commercial Air		Transportation Energy: An Annotated Bibliography*	000752
	#Social Organization and	Transportation Study*	000756
	#Urban Area Results of the 1974 National	Transportation and Land Development Policy*	000761
		Transportation Energy Efficiency*	000764
	#Air	Transportation Planning*	000772
Population and Jobs*	#Energy Considerations in Urban	Transportation Systems on the Spatial Distributions of	000773
Geographic Flow Patterns and Intercompany	#The Effects of	Transported in 1974 by PPC Regulated Pipelines:	000222
	#Natural Gas	Transporter's Choice of Mode*	000555
	#Predicting	Transporting Natural Gas from the Arctic: The	000406
Alternative Systems*		Travel: State and Local Government Planning (A	000006
Bibliography with Abstracts)*	#Tourism and Vacation	Travel Modes* #An Individual Cost Minimizing	000033
Method of Determining Modal Split Between Three		Travel Model* Forecasting Procedures Including Activity	000065
Allocation and Weekend Travel Phase II. Weekend		Travel Phase II. Weekend Travel Model* Forecasting	000065
Procedures Including Activity Allocation and Weekend		Travel Forecasting Procedures Including Activity	000065
Allocation and Weekend Travel Phase II. #Statewide		Travel Demand Analyses of Program Measures to Promote	000107
#State Energy Conservation Plans: Guidelines for		Travel Demand: A Review and Bibliography* #Price	000123
Elasticity Estimates for Transport Fuel Consumption and		Travel Behavior Under Increases in Gasoline Prices*	000157
	#New York State Intercity	Travel Data, 1975. Volume II*	000200
		Travel Behavior - A Synthesized Theory*	000237
#Recreational Travel Impacts: Review of Recreational		Travel and Recreational Vehicle Data*	000252
Recreational Vehicle Data*	#Recreational	Travel Impacts: Review of Recreational Travel and	000252
Bibliography: A Bibliography of the Holdings of the		Travel Reference Center* #Travel Research	000253
Holdings of the Travel Reference Center*		Travel Research Bibliography: A Bibliography of the	000253
	#Modal Choice and the Value of	Travel Time*	000292
	#Review of Studies Leading to Existing Values of	Travel Time*	000295
	#Changes in Individual	Travel Behavior During the Energy Crisis, 1973-74*	000341
for Future Research*	#Aggregate Auto	Travel Forecasting: State of the Art and Suggestions	000408
of Gasoline Price and Availability Upon Recreation		Travel Propensity* #The Influence	000422
	#New Approaches to	Travel Behavior*	000445
	#Air	Travel Forecasting*	000450
		Travel and Aviation Facilities Planning*	000452
		Travel Behavior and Values*	000453
		Travel Demand Forecasting*	000458

PERMUTED TITLE INDEX

A Survey of Empirical Evidence on the Elasticity of Design for a Method of Projecting Vehicle Miles of Travel*
 #Conceptual Problems in Evaluation of Applications of Value of
 #Applications of Value of Travel Time to Impact of the Energy Shortage on Value of
 Investment Alternatives* #Applications of Value of Derivation of Values of Time from
 #The Economic Impact of Automobile #1976 National #Proceedings: 1978
 #Survey of State #1976 National #The Impact of Area Definition)*
 #Annotated Bibliography on Highway #A Preliminary Assessment of Empty Miles
 #Engines and Energy--Future #American Trucking #Analysis of Past and Expected Future
 #Factors, Turbofan Aircraft Operating Cost and Performance
 #An Analysis of Marketing #Light Duty Automotive Fuel Economy ...
 and Shipments of the Recreation Vehicle #Facts and #Agricultural Equipment Fuel Consumption
 Annual Report to Congress. Volume III: Statistics and #Factors and #Factors and
 #Factors, Trends, and Guidelines Related to Revenue, Yield, Enplanements and Average On-Flight
 #Passenger Car Fuel Economy in Short #Passenger Car Fuel Economy in Short
 May 1, 1977 - #Factors and Trends in Mode of Transportation and Personal Characteristics of
 New Jersey* #Energy Savings for Work Information Resources*
 #Monthly #Weekly
 Enplanements and Average On-Flight Trip Length by Fare #Gas Emissions and Fuel Economy of the Light Duty Diesel
 #National #Projection of Light of an Electric Versus a Gasoline Powered Utility
 #An Engineering Analysis and Comparison of Railroad and #Transportation Characteristics of
 of BEA Economic Areas: 1950, #Synthetic Measures of Costs: An Economic and Engineering Analysis of
 in Freight Modal Choice: Delineating the Rail- #1977-78
 Evaluation* #American #Alternative Fuels and Intercity
 #Trinc's Blue Book of the #Cost of Operating Refrigerated
 #Air Conditioning and Heating Systems for #Utilization of Waste Heat in
 #The Drag Related Flow Field Characteristics of #Transportation,
 Fiscal Years 1976 and 1975* #A Mass Production Forging Technique for Automotive
 Improvement Concepts* #Upgrading Automotive Gas Program. Final Annual Report for Period #Automotive Gas
 Catalysts and Catalyst Supports for Automotive Gas Cars #Analysis of Regenerated Single-Shaft Ceramic Gas-
 Design, High Temperature Gas Turbine. Volume 2: Ceramic #Brittle Materials Design, High Temperature Gas-
 of the Department of Energy Baseline Automobile Gas- #Cold-Air Performance of the Compressor-Drive
 Gas- #Compliant Surface Bearing for an Automotive Gas Progress Report*
 #Baseline Gas #Aviation
 Pre vaporizing Fuel Injection Concepts for a Gas Trends: Domestic and International Operations #Turbojet/
 Performance Trends: Domestic and International #Emissions and Fuel Economy of the
 I Railroads: Financial and Operating Statistics for the Vehicle Test Reports. Volume I*
 #1975 Business Statistics. #Analysis of Past and Expected Future Trends in
 Vehicle Research, Development, and Technology-Foreign (#Analysis of On-Road Electric Vehicle Experiences of 62
 #Highway Safety Effects of the Energy Crisis on
 #Travel Market Yearbook: 1976/1977* 000476
 Travel Demand* #Pricing in Urban Transportation: 000505
 Travel* #Study 000510
 Travel Time* 000521
 Travel Time to Travel Demand Estimation* 000522
 Travel Demand Estimation* 000522
 Travel Patterns and Attitudes* 000522
 Travel Time* 000578
 Travel Time to Economic Evaluation of Transport 000602
 Travel Demand Models* 000603
 Travel Cost Increases on Households* 000605
 Travel Survey: Full Year Report* 000723
 Travel Outlook Forum* 000728
 Travel Offices: 1977-1978* 000725
 Travel Expenditure Study: Summary Report* 000726
 Travel on State Economies: 1976* 000727
 Travel Time Limits in Urban Growth (A Postulated Urban 000739
 Travel Exposure Research Methods* 000769
 Traveled by Selected Regulated Motor Carriers* 000072
 Travelers' Attitudes and Energy Conservation* 000377
 Trends* 000010
 Trends. 1976 Statistical Supplement* 000027
 Trends in U.S. Energy Consumption, 1947-2000* 000062
 Trends, and Guidelines Related to Trip Length* 000064
 Trends: Domestic and International Operations of the U. 000132
 Trends in Bus Transit Operations: 1960-1978* 000153
 Trends in the Automotive Service Industry Through 1975* 000332
 Trends Through 1978* 000441
 Trends 1977: 5th Annual Historical Review of Production 000517
 Trends* #Engine Developments 000520
 Trends of Energy Supply, Demand, and Prices* 000664
 Trends in Trip Length* 000742
 Trinc's Blue Book of the Trucking Industry: 1977 Edition 000620
 Trip Length* 000064
 Trip Length by Fare Category (#8 State Basis)* Traffic, 000135
 Trip Operation: Alternative Fuels Utilization Program* 000273
 Trip Operation. Technical Progress Report for Period 000494
 Trip Length* 000742
 Trips* #Nationwide Personal Transportation Study: 000691
 Trips: Analysis of Alternative Commuting Patterns for 000383
 TRISNET: Directory to Transportation Research 000331
 Truck Tonnage Report* 000028
 Truck Tonnage Report* 000025
 Truck Carriers--Coach Class: Traffic, Revenue, Yield, 000135
 Truck* 000209
 Truck Characteristic Report: 1974* 000343
 Truck Population to Year 2025* 000379
 Truck in Two Years of a Service Test Program*Comparison 000415
 Truck Line-Haul Work (Energy) Requirements* 000428
 Truck, Rail, and Water Freight* 000456
 Truck Operating Times Between the Metropolitan Centers 000483
 Truck, Belt, Rail, Barge and Coal Slurry and Pneumatic 000531
 Truck Interface* #An Experiment 000601
 Truck Trailer Manufacturers Association Directory* 000621
 Truck Traffic Volume and Weight Data for 1971 and Their 000767
 Trucking Trends. 1976 Statistical Supplement* 000027
 Trucking* 000233
 Trucking Industry: 1977 Edition* 000620
 Trucks for Hauling Fresh Fruits and Vegetables* 000076
 Trucks* 000161
 Trucks for Increased Fuel Economy. Final Report* 000369
 Trucks and Buses* 000396
 Trucks and Fuel Conservation* 000596
 Truckline Carrier Domestic Passenger Enplanements: 000138
 Turbine Wheels: Phase II. Final Report, Period January 000017
 Turbine Technology. An Experimental Evaluation of 000034
 Turbine Ceramic Regenerator Design and Reliability 000154
 Turbine Engine Combustors. Part 1* of Advanced 000290
 Turbine Engines and Resulting Fuel Economy in a Compact 000350
 Turbine Rotar Technology* #Brittle Materials 000402
 Turbine. Volume 2: Ceramic Turbine Rotar Technology* 000402
 Turbine Engine* of the Compressor-Drive Turbine 000544
 Turbine of the Department of Energy Baseline Automobile 000544
 Turbine Engine. I - Journal Bearing Performance* 000551
 Turbine Development Program. Eighteenth Quarterly 000561
 Turbine Fuels, 1977* 000578
 Turbine Catalytic Combustor* Evaluation of Premixing- 000610
 Turbofan Aircraft Operating Cost and Performance 000132
 Turbojet/Turbofan Aircraft Operating Cost and 000132
 Turbulent Flow System for European 4-Cyl Engines* 000203
 Twelve Months Ended December 31, 1975* #Class 000370
 Twelve State-of-the-Art Individual Electric and Hybrid 000467
 Twentieth Biennial Edition* 000633
 U.S. Energy and Economic Growth, 1975-2010* 000015
 U.S. Energy Consumption, 1947-2000* 000062
 U)* #Electric 000104
 U.S. Utilities* 000109
 U.S. Toll Roads* 000110

PERMUTED TITLE INDEX

Trends: Domestic and International Operations of the U.S. Supplemental Air Carriers, Calendar 1963 - Fiscal 000132
to the National Energy Accounts: Energy Flows in the U.S., 1973 and 1974. Volume II. Program Documentation* 000210
to the National Energy Accounts: Energy Flows in the U.S., 1973 and 1974. Volume I: Methodology* #Update 000211
Transportation* #The Impact of the U.S. Energy Situation on High Speed Ground 000236
#Impacts of Future Use of Electric Cars in U.S. Cities* 000281
#Battery Research Sponsored by the U.S. Energy Research and Development Administration* 000360
Air Freight Demand and Projection of Cargo Activity at U.S. Air Hubs* #Forecasting Models for 000384
#Motor Vehicle Factory Sales from Plants in U.S. & Canada* 000432
#Clean Fuel from Coal Is Goal of U-Gas Process* 000486
#Dynamic Models of the U.S. Automobile Fleet* 000511
#New Car Efficiency Standard* #U.K. Electric Vehicle Development Programmes* 000553
#Domestic and International Transportation of U.S. Gasoline Demand: An Economic Analysis of the EPCA 000607
Industries* #1978 U.S. Foreign Trade: 1970* 000636
#Mineral and Fuel Commodities (1966-75)* #Minerals in the U.S. Industrial Outlook with 5-year Projections for 200 000641
Brief* #U.S. Economy: Ten-Year Supply-Demand Profiles for 000671
Fiscal Year 1976* #U.S. Dept. of Transportation Fiscal Year 1979 Budget in 000674
#Final Environmental Impact Statement: Regulations for U.S. Department of Transportation. 10th Annual Report: 000675
of Scheduled Air Carrier Passenger Traffic for Top 100 U.S. Tank Vessels Carrying Oil in Foreign Trade and 000681
Expenditures Related to the Final System Plan of the U.S. Airports, 1976* 000686
Capital Grant Funds for Rail Rehabilitation and #The U.S. Airports, August 6, 1976* #Profiles 000707
Economy: A Statistical Evaluation* #U.S. Railway Association* Action and Federal 000758
Issue 1978* #Pipeline and UMTA Rail Modernization Program. The Distribution of 000710
System. Volumes 1-4* #Urban Mass Transportation Industry Uncertainties in Estimates of Fleet Average Fuel 000509
and Supply of Nonfuel Minerals and Materials for the United States* 000496
#Overview of Electric Vehicles in the United States* 000029
to the Congress by the Comptroller General of the United States* 000014
#Diesel Cars in the United States* 000159
#Energy Use in the United States* 000202
Part 5: Carriers by Water* #Transport Statistics in the United States Budget in Brief - Fiscal Year 1978* 000207
Part 1: Railroads, Their #Transport Statistics in the United States* of Gallons of Aviation Fuel. Report 000246
Part 3: Freight Forwarders* #Transport Statistics in the United States* 000254
Part 4: Private Car Lines* #Transport Statistics in the United States by State and Region* 000303
Part 2: Motor Carriers* #Transport Statistics in the United States for the Year Ended December 31, 1975. 000325
#Energy Supply and Demand in the Northeast United States for the Year Ended December 31, 1975. 000326
#Current Demographic Change in Regions of the United States for the Year Ended December 31, 1975. 000327
#Potential for Energy Conservation in the United States for the Year Ended December 31, 1975. 000328
#Characteristics of Automotive Fleets in the United States for the Year Ended December 31, 1975. 000329
Foreign Trade: Bunker Fuels, Oil and Coal Laden in the United States* - 1972* 000366
Laden in the United States on Vessels Engaged in United States* 000429
Poverty Status in 1975 of Families and Persons in the United States: 1979-1985* 000469
of All Oils by P.A.D. Districts and Imports into the United States: 1966-1977* 000576
#Mineral Industry Surveys: Petroleum Refineries in the United States on Vessels Engaged in Foreign Trade* 000638
Survey* #Recreational Boating in the Continental United States Foreign Trade: Bunker Fuels, Oil and Coal 000638
Tank Vessels that Enter the Navigable Waters of the United States and the North Central Region, by 000640
Report of the Secretary of Transportation to the United States: Calendar Year 1976. Parts 1-5* 000644
the U.S., 1973 and 1974. Volume II. Program #Waterborne Commerce of the United States: 1977* Demand, and Stocks 000665
the U.S., 1973 and 1974. Volume I: Methodology* #Update to the National Energy Accounts: Energy Flows in 000673
#Vanpooling: An Experimental Evaluation of Improvement Concepts* 000673
Accounts and Records and Reporting System. Volumes 1-4* #Update to the National Energy Accounts: Energy Flows in 000677
Book. Volume I. Urban Data: Atlanta - Miami. Volume II. #Update to the National Energy Accounts: Energy Flows in 000677
Milwaukee - Washington, #Urban Data Book. Volume I. #Update to the National Energy Accounts: Energy Flows in 000677
Volume II. Urban Data: Milwaukee - Washington, Notes #Urban Data Book. Volume I. Urban Data: Atlanta - Miami. 000677
System Performance* #Institutional Issues in Urban Freight Consolidation* 000106
Policy* #Directing the Evolution of Urban Land Use to Achieve Improved Transportation 000140
The Potential for Helicopter Passenger Service in Major #Urban Transportation Alternatives: Evolution of Federal 000145
Fuel Consumption and Traffic: Relations Derived from Urban Areas* 000164
Electric Cars* #Gasoline Consumption in Urban Transportation Interface Facilities* 000172
#Basic Requirements for Urban Driving Schedule Data* #Exhaust Emissions, 000204
Transportation Facilities: What Can We #Coordination of Urban Traffic* 000205
#An Aggregate Supply Model for Urban Applications and Energy Impacts of Future 000279
Transportation Planning. Part I: Interaction Between Urban Cars* 000280
Phases I and II. Executive Summary* Urban Development and Planning and Developing 000306
of Different Modes* #Urban Bus Transit (Abridgment)* 000311
for Estimating Automobile Fuel Consumption on Congested Urban Centers as a Potential Process* Modeling for 000319
Assistance* #Methodology of Comparing Modes in Urban Goods Movement Demonstration Project Design 000340
#Highway and Urban Transportation and Energy: The Potential Savings 000358
the Elasticity of Travel Demand* #Pricing in Urban Roads* #A Procedure 000375
of Road and Transit System Requirements for Alternative Urban Transport* 000416
#The Design and Development of a Hybrid-Electric Urban Mass Transportation: Options for Federal 000434
Cost-Effective Maintenance of Rail Transit Vehicles in Urban Transportation in the 1970's and 1980's* 000447
Transportation Planners* #Characteristics of Urban Commodity Flow* 000449
#Comparative Costs of Urban Transportation: A Survey of Empirical Evidence on 000505
#Statistical Report on Urban Densities for Public Transportation* 000519
#A Comparative Analysis of Urban Forms* #Evaluation 000529
#Proceedings of the Workshop on Urban Transit Vehicle* 000535
Urban Mass Transit Systems* #Model for 000548
Urban Transportation Systems: A Handbook for Urban Transportation Systems* 000554
Urban Energy Consumption* 000582
Urban Transportation Requirements, Volumes I and II* 000606
Urban Freight Consolidation* 000624
000649

PERMUTED TITLE INDEX

Information Manual* as Amended Through February 5, 1976*	*Computer Programs for *The Role of Travel Time Limits in of Travel Time Limits in Urban Growth (A Postulated Driving Cycles for Electric *Energy Considerations in *Some *Making Federal R and D Evaluation System (PIES) Documentation, Volume 14, A *Characteristics of the Regular Adult Bicycle Increase (Abridged)* *Analysis of *Road of On-Road Electric Vehicle Experiences of 62 U.S. *Pipeline and Underground PIES) Documentation, Volume 13, Coal and Electric of Natural Gas as a Primary Vehicular Fuel for a Public *Comparison of an Electric Versus a Gasoline Powered of Solid Commodities Via Freight Pipeline, Volumes I- Bibliography with Abstracts)* *Tourism and *Economic Approach to *Modal Choice and the *Applications of Transport Investment Alternatives* *Applications of *Review of Studies Leading to Existing *Travel Behavior and *Derivation of *The Origin and Uses of the Economy Analyses of Program Measures to Promote Carpools, *Marketing Plan to Accelerate the Use of *A Fuel *An Investigation of the *A *Representation of Engine Data by Multi- Refrigerated Trucks for Hauling Fresh Fruits and Electric Vehicles* *On the Relationship between Gross Batteries for Stationary Energy Storage and Electric- Outlook for Automotive Fuel Supplies and Alternative *Electric and Hybrid *Effect of Automatic *Electric *Analysis of On-Road Electric *Near-Term Advanced Electric Simulation of an Advanced Hybrid Electric-Powered Testing of Lithium/Iron Sulfide Batteries for Electric Iron Sulfide Batteries for Load-Leveling and Electric- Reducing Gasoline Consumption Through Improved Motor *United States Rural Service Electric *Proceedings of the Hybrid *Proceedings of the Third International Electric Test and Data Project Review and Near-Term Electric *Environmental Development Plan: Electric Study to Develop Lead-Acid Batteries for Electric *Bibliography from Highway Safety Literature* *Motor *Walk Time from *Near-Term Electric Impacts: Review of Recreational Travel and Recreational Lightweight Hybrid Flywheel/Battery Powered Electric *Energy Requirement for Electric Road for Near Term Devices and Strategies to Reduce Highway *Methanol Fuel Modification for Highway Drive Components for a Flywheel Powered Computer Heat Engine Power for an Energy-Economic Personal *Simulation of Wide-Open Throttle Power Train Design for a State-of-the-Art Electric *Motor *World Motor *Motor *Development Schedules for *Twelve State-of-the-Art Individual Electric and Hybrid *Electric-Flywheel *The Nickel-Zinc Battery: A Viable Alternative for and Risk Assessment of the Electric and Hybrid *Study Design for a Method of Projecting *Recreation *Review of Production and Shipments of the Recreation Report* *Motor and Development of a Hybrid-Electric Urban Transit Power Train Design for a State-of-the-Art Electric *Near-Term Electric *U.K. Electric *Near-Term Electric	Urban Transportation Planning: PLANPAC/BACKPAC, General Urban Mass Transportation Act of 1964 and Related Laws, Urban Goods Movement* Urban Growth (A Postulated Urban Area Definition)* Urban Area Definition)* The Role Urban Vehicles and Methods for Obtaining These* Urban Area Results of the 1974 National Transportation Urban Transportation Planning* Urbanized Area Journey to Work Statistics* Useful: A Case Study of the Implementation Process* User's Guide* *Project Independence User* User Response to the 1975 New York City Transit-Fare User and Property Taxes on Selected Motor Vehicles: 1973 Utilities* *Analysis Utilities Construction: Annual Contractors Issue 1978* Utility Conventions for PIES* Evaluation System Utility Fleet* *Use Utility Truck in Two Years of a Service Test Program* *Transport Vacation Travel: State and Local Government Planning (A Value of Time and Transportation Choice* Value of Travel Time* Value of Travel Time to Travel Demand Estimation* Value of Travel Time* Value of Travel Time to Economic Evaluation of Values of Travel Time* Values* Values of Time from Travel Demand Models* *Valve Timing--Its Effect on Emissions and Fuel Economy* Van* *Vanpooling Institutional Barriers* *Vanpooling: An Update* *Vanpooling Demonstration Project* Vanpools, and Public Transportation* for Travel Demand Vanpools* Vapor Injection/Igniter System, Final Report* Variability of Gasoline Consumption Among States* Variable-Displacement Spark-Ignition Engine* Variate Least-Squares Regression* Vegetables* *Cost of Operating Vehicle Weight, Payload, Effective Range, and Cost of Vehicle Propulsion, Progress Reports* *High-Performance Vehicle Engines, 1985-2010: Implications for Vehicle Performance and Design Goal Determination Study* Vehicle Monitoring Error on Transit Schedule Adherence Vehicle Research, Development, and Technology-Foreign () Vehicle Experiences of 62 U.S. Utilities* Vehicle Batteries* *Computer Vehicle Propulsion* *Design and Vehicle Applications* for High-Energy Lithium-Aluminum/ Vehicle Efficiency. A Report of an Informal Vehicle Program* *001161 Vehicle Interest and Capability Assessment Workshop* *001159 Vehicle Symposium, Volumes 1 and 2* *001163 Vehicle R&D Program Review* *State-of-the-Art (SOA) Vehicle Systems, FY 1978* *001192 Vehicle Propulsion, Volume 1* *Cost and Design Vehicle Tinting and Registration: A Subject *001198 Vehicle to Final Destination* *002030 Vehicle Program: Phase I, Final Report* *002022 Vehicle Data* *Recreational Travel Vehicle Drive* *Development of a High Performance and Vehicle Propulsion* *002027 Vehicle Use, Volume I: Technical Report, Volume II: *002032 Vehicle Use, Final Report* *003082 Vehicle, Final Report, Phase I* *Evaluation of Selected Vehicle* *Flywheel/ Vehicle Performance* *000410 Vehicle* *Preliminary Vehicle Facts & Figures '78* *000430 Vehicle Data: 1977 Edition* *000431 Vehicle Factory Sales from Plants in U.S. & Canada* *000432 Vehicle Energy Storage Systems* *000443 Vehicle Test Reports, Volume I* *000467 Vehicle for Postal Service Applications* *000477 Vehicle Powering* *000492 Vehicle Research, Development and Demonstration Act of Vehicle Miles of Travel* *000507 Vehicle Figures, Facts and Forecasts: 1961 - 1981* *000510 Vehicle Industry*and Trends 1977: 5th Annual Historical *000517 Vehicle Storage of Hydrogen Using Metal Hydrides, Final *000524 Vehicle* *The Design Vehicle* *000535 Vehicle* *Preliminary Vehicle Program: Phase I, Final Report* *000549 Vehicle Development Program* *000550 Vehicle Program, Phase I, Final Report* *000553 Vehicle Program, Phase I, Final Report* *000566
---	---	---

REPORTED TITLE INDEX

Baseline Tests of the Kordesch Hybrid Passenger Vehicle 000589
 National Traffic and Motor Vehicle Safety Act of 1966 000625
 Motor Vehicle Information and Cost Savings Act 000627
 Electric and Hybrid Vehicle Program: Small Business Planning Grants 000646
 of Public Law 94-413: The Electric and Hybrid Vehicle Research, Development and Demonstration Act of 000652
 Program Planning Document: Highway Vehicle Alternative Fuel Utilization Program (AFUP) 000653
 Electric and Hybrid Vehicle Demonstration: 1978 000655
 Highway Vehicle Systems Contractors Coordination Meeting 000656
 Procedures Panel Report* *Study of Potential for Motor Vehicle Fuel Economy Improvement: Fuel Economy Test 000676
 Panel Report* *Study of Potential for Motor Vehicle Fuel Economy Improvement: Safety Implications 000677
 Emissions Panel Report* *Study of Potential for Motor Vehicle Fuel Economy Improvement: Air Quality and 000678
 Applicability of Federal Motor Vehicle Standards to Electric and Hybrid Vehicles 000696
 Mathematical Model for the Design of Grids for Electric Vehicle Batteries* 000736
 Contribution to the Theory of the Electric Vehicle 000789
 A Digital Computer Program for Simulating Electric Vehicle Performance 000759
 Energy Consumption of Electric and Gasoline Powered Vehicles* *A Comparison Between the Primary 000018
 Weight, Payload, Effective Range, and Cost of Electric Vehicles* *On the Relationship Between Gross Vehicle 000019
 Electric Propulsion for Road Vehicles. State of the Art and Problems 000047
 Consumer Behavior Toward Fuel-Efficient Vehicles in Germany - Present and Future 000048
 Friction and Motor-Driveline Efficiency of Electric Vehicles: Report of the Literature Search* 000083
 Exhaust Emissions, Fuel Economy, and Driveability of Vehicles from Track Tests *Tire Aerodynamic 000088
 Impact of a Future Population of Electric Vehicles Fueled with Alcohol-Gasoline Blends 000096
 Consumer Behavior Toward Fuel Efficient Vehicles on the Electric Power Industry 000108
 of Large Size Nickel-Zinc Cells for Electric Vehicles: Literature Review* 000122
 Lithium Requirements for Electric Vehicles *Development 000146
 Development of Batteries for Electrically-Driven Vehicles Using Lithium-Water-Air Batteries 000155
 Test and Evaluation of 23 Electric Vehicles 000178
 Overview of Electric Vehicles for State-of-the-Art Assessment 000188
 of Fuel Economy Potential of Six 1976-Model Vehicles in the United States* 000202
 Literature* *Recreational Vehicles* *An Investigation 000226
 *Relation Between Efficiency and Range of Electric Vehicles: A Subject Bibliography from Highway Safety 000229
 High Performance Electric Commercial Vehicles for City Use 000255
 Development of Electric Vehicles at Toyota 000281
 The Potential Market for On-the-Road Electric Vehicles 000336
 The Efficiency Improvement of Electric Vehicles by Regenerative Braking 000338
 Characterization of Worldwide Electric and Hybrid Vehicles* *A Pictorial 000349
 Market Objectives for Electric Vehicles 000353
 An Advanced Electric Motor Transmission for Electric Vehicles: Development Plan. Technical Report 000388
 of an Electric Motor-Transmission System for Electric Vehicles: Technical Report* *Characterization Study 000389
 Electric Vehicles, 1890-1966: A Bibliography 000397
 of an Electric Motor-Transmission System for Electric Vehicles* *Characterization Study 000407
 Bibliography on Electric Vehicles: 1967-1976 000421
 Evaluation of *Fuels and Fuel Additives for Highway Vehicles and Their Combustion Products: A Guide to 000444
 State-Of-The-Art Assessment of Electric and Hybrid Vehicles 000466
 The Advisability of Regulating Electric Vehicles for Energy Conservation 000499
 Supporting Plastic Sandwich Constructions in Electrical Vehicles* Economical Considerations of the Use of Self- 000512
 Systems and Their Potential for Bias Toward Vehicles of Particular Characteristics* Transportation 000546
 Model for Cost-Effective Maintenance of Rail Transit Vehicles in Urban Mass Transit Systems 000548
 New Batteries and Their Impact on Electric Vehicles 000563
 The Requirements for Batteries for Electric Vehicles 000564
 Development of Electric Vehicles in Czechoslovakia 000567
 Road User and Property Taxes on Selected Motor Vehicles: 1973 000575
 A Cycle Timer for Testing Electric Vehicles 000588
 Program (POWERQ) for Power Requirements of Mass Transit Vehicles* *A Computer 000595
 the Internal Combustion Engine for Automotive Test on Compounding 000616
 Federal Motor Vehicle Standards to Electric and Hybrid Vehicles* *Applicability of 000696
 Performance Standards for Electric and Hybrid Vehicles* *Recommended 000729
 Driving Cycles for Electric Urban Vehicles and Methods for Obtaining Them 000754
 Use of Natural Gas as a Primary Vehicular Fuel for a Public Utility Fleet 000259
 Highway Fuel Consumption Computer Model: Version 1 000262
 Fuels. Oil and Coal Laden in the United States on Vessels Engaged in Foreign Trade* Foreign Trade: Bunker 000638
 Impact Statement: Regulations for U.S. Tank Vessels Carrying Oil in Foreign Trade and Foreign Tank 000681
 Vessels Carrying Oil in Foreign Trade and Foreign Tank Vessels that Enter the Navigable Waters of the United 000681
 The Nickel-Zinc Battery: A Viable Alternative for Vehicle Powering 000492
 Demand Elasticities for Gasoline: Another View 000004
 Contractors' View on Optimizing Materials and Energy 000129
 the Mandatory Petroleum Allocation and *Findings and Views Concerning the Exemption of Motor Gasoline from 000221
 the Mandatory Petroleum *Preliminary Findings and Views Concerning the Exemption of Kerojet Fuels from 000658
 and the Mandatory Petroleum Allocation and *Findings and Views Concerning the Exemption of Motor Gasoline from 000659
 Label and 1976 Gas Mileage Guide for New Car Buyers. Volume I: Executive Summary* of the FEA/EPA Gas Mileage 000003
 Energy Storage Systems for Automobile Propulsion. Volume 1. Overview and Findings 000063
 *Energy Use in the Marine Transportation Industry. Volume IV: Task III-Efficiency Improvements, Task IV- 000082
 Data: Milwaukee - Washington, Notes *Urban Data Book. Volume I. Urban Data: Atlanta - Miami. Volume II. Urban 000097
 Urban Data Book. Volume I. Urban Data: Atlanta - Miami. in the NYC - Buffalo Corridor: Models and Forecasts. 000097
 for Near Term Application. Volume 1: System Description. Volume III* *Intercity Rail Patronage 000148
 Hybrid Electric Power System for Near Term Application. Volume 2: System Design* Hybrid Electric Power System 000166
 Braking Systems on Electric and Other Automobiles. Volume 1 - Summary* and Feasibility of Regenerative 000167
 Braking Systems on Electric and Other Automobiles. Volume II: Design Study and Analysis* of Regenerative 000168
 Problems: A Need for Policy Reorientation. Volume II* *Solving Public Passenger Transportation 000170
 New York State Intercity Travel Data, 1975. Volume II 000200
 Lead-Acid Batteries for Electric Vehicle Propulsion. Volume 1* *Cost and Design Study to Develop 000201
 Accounts: Energy Flows in the U.S., 1973 and 1974. Volume II. Program Documentation* to the National Energy 000210
 Accounts: Energy Flows in the U.S., 1973 and 1974. Volume 1: Methodology* *Update to the National Energy 000211
 Independence Evaluation System (PIES) Documentation. Volume 2. PIES Econometric Demand Model* *Project 000214
 Independence Evaluation System (PIES) Documentation. Volume 14. A User's Guide* *Project 000215
 Independence Evaluation System (PIES) Documentation. Volume 6. Methodology for Improving the Price 000216

PERMUTED TITLE INDEX

Independence Evaluation System (PIES) Documentation. 000217
 Independence Evaluation System (PIES) Documentation. 000218
 Independence Evaluation System (PIES) Documentation. 000219
 Independence Evaluation System (PIES) Documentation. 000220
 Targets: Petroleum and Coal Products (SIC 29). 000261
 Energy Study of Rail Passenger Transportation. 000298
 Devices and Strategies to Reduce Highway Vehicle Use. 000302
 Reduce Highway Vehicle Use. Volume I: Technical Report. 000302
 Estimation of Fuel Consumption in Rail Transportation. 000307
 Estimation of Fuel Consumption in Rail Transportation. 000308
 in the Transportation Equipment Industry (SIC 37). 000339
 of the Commercial Air Transportation System. 000356
 National Energy Transportation. 000376
 Brittle Materials Design, High Temperature Gas Turbine. 000402
 Passenger Car Classification Using Interior 000403
 Energy Study of Railroad Freight Transportation. 000424
 Energy Study of Railroad Freight Transportation. 000425
 Energy Study of Railroad Freight Transportation. 000426
 Individual Electric and Hybrid Vehicle Test Reports. 000467
 Driving and Energy Conservation. Highlight Report. 000484
 Energy Study of Railroad Freight Transportation. 000491
 on Reform of Federal Energy Administration Regulations. 000503
 Federal Energy Administration Regulations. Volume 1 and 000503
 Passenger Transportation: Mode/Energy Conservation. Task Force 000541
 Passenger Transportation: Mode/Energy Conservation. Intercity 000542
 Long-Run Determinants of the Demand for Automobiles. 000558
 Long-Run Determinants of the Demand for Automobiles. 000559
 Long-Run Determinants of the Demand for Automobiles. 000560
 Quantities and Long-Term Marginal Prices. Final Report. 000597
 Fuel and Energy Price Forecasts: Final Report. 000598
 Assessment of Community Planning for Mass Transit. 000632
 Market Oriented Program Planning Study (MOPPS). 000650
 Administration Annual Report to Congress: 1977. 000662
 Information Administration Annual Report to Congress. 000663
 Information Administration Annual Report to Congress. 000664
 Minerals Yearbook: 1975. 000670
 Count Program. Volume I: Design and Development. Traffic 000735
 Documentation. Traffic Count Program. Consumption 000735
 of the Commercial Air Transportation System. 000737
 Truck Traffic 000767
 Intersociety Energy Conversion Engineering Conference. 000822
 System of Accounts and Records and Reporting System. 000829
 by Motor Carriers in the Intercity Freight Market. 000828
 in the Forecasting of General Aviation Activity. 000828
 of the Third International Electric Vehicle Symposium. 000828
 Proceedings of the International Conference. 000828
 Assessment: The Washington, D.C. Metrorail System. 000828
 of Alternative Automotive Power Systems and Fuels. 000828
 Symposium on Automotive Propulsion Systems. 000828
 Rail, Barge and Coal Slurry and Pneumatic Pipelines. 000878
 Shipped Between Census Regions. 000878
 Analysis of Urban Transportation Requirements. 000878
 First World Hydrogen Energy Conference. 000878
 Transport of Solid Commodities Via Freight Pipeline. 000878
 Progress Report No. 6. 000878
 Indexes of Railroad Material Prices and 000878
 Hydrocarbon Emission. Final Report, Phase 2, October 000878
 Atlanta - Miami. Volume II. Urban Data: Milwaukee - 000878
 Definition Study for a Net Energy Assessment: The 000878
 Report. Hidden 000878
 Utilization of 000878
 Materials Are the Key in Auto Weight 000878
 Requirements for Electric Vehicles Using Lithium- 000878
 The Lithium- 000878
 the Year Ended December 31, 1975. Part 5: Carriers by 000878
 Transportation Characteristics of Truck, Rail, and 000878
 1976. Parts 1-5. 000878
 Trade and Foreign Tank Vessels that Enter the Navigable 000878
 and Developing Transportation Facilities: What Can 000878
 Procedures Including Activity Allocation and Planning 000878
 Activity Allocation and Weekend Travel Phase II. 000878
 Vehicles. On the Relationship between Gross Vehicle 000878
 Materials Are the Key in Auto 000878
 Truck Traffic Volume and 000878
 of the Demand for Automobiles. Volume I. The 000878
 Automobiles. Volume II: Simulation Analysis Using the 000878
 Demand for Automobiles. Volume III: Appendices to the 000878
 Production Forging Technique for Automotive Turbine 000878
 Transportation. 000878
 stations and Terminals. 000878
 1972 Census of 000878
 Realistic Effects of 000878
 Motor Gasolines, 000878
 Volume 8. Methodology for Enabling the PIES Oil and Gas 000217
 Volume 9. Allocation of Exploratory Activity to Oil and 000218
 Volume 13. Coal and Electric Utility Conventions for 000219
 Volume I: The Integrating Model of the Project 000220
 Volume 2: Technical Appendices* Efficiency Improvement 000261
 Volume 2: Description of Operating Systems* 000298
 Volume I: Technical Report. Volume II: Appendices* Term 000302
 Volume II: Appendices* Term Devices and Strategies to 000302
 Volume I: Analytical Model* and the Environment: 000307
 Volume II - Freight Service Measurements* Environment: 000308
 Volume I* Energy Efficiency Improvement Targets 000339
 Volume I: Technical Analysis* the Energy Consumption 000356
 Volume III: Issues and Problems* 000376
 Volume 2: Ceramic Turbine Rotor Technology* 000402
 Volume: A 1978 Up-Date* 000403
 Volume 1: Executive Summary* 000424
 Volume 2: Industry Description* 000425
 Volume 4: Efficiency Improvements and Industry Future* 000426
 Volume I* Twelve State-of-the-Art 000467
 Volume XXI* 000484
 Volume 3: Regulation and Tariff* 000491
 Volume 1 and Volume 2, Appendices* Task Force 000503
 Volume 2, Appendices* Task Force on Reform of 000503
 Volume II: Analysis* Intercity 000541
 Volume I: Executive Summary* Intercity 000542
 Volume I. The Wharton E.P.A. Automobile Demand Model* the 000558
 Volume II: Simulation Analysis Using the Wharton E.P.A. 000559
 Volume III: Appendices to the Wharton E.P.A. Automobile 000560
 Volume I* Fuel and Energy Price Forecasts: 000597
 Volume IX - Data Base* 000598
 Volume I: Summary* 000632
 Volume 1: Integrated Summary* 000650
 Volume 2* Energy Information 000662
 Volume II: Projections of Energy Supply and Demand and 000663
 Volume III: Statistics and Trends of Energy Supply, 000664
 Volume 1. Metals, Minerals, and Fuels* 000670
 Volume II: Program Documentation. Traffic 000735
 Volume I: Design and Development. Volume II: Program 000735
 Volume II: Market and Economic Analysis* Consumption 000737
 Volume and Weight Data for 1971 and Their Evaluation* 000767
 Volumes 1 and 2* Proceedings of the 12th 000822
 Volumes 1-4* Urban Mass Transportation Industry Uniform 000829
 Volumes I and II* Potential Fuel Conservation Measures 000828
 Volumes I-IV* Cost Impact Study to Include Interactions 000828
 Volumes 1 and 2* Proceedings 000828
 Volumes I and II* Energy Use Management: 000828
 Volumes I and II (Appendices)* Study for a Net Energy 000828
 Volumes 1-4* Current Status 000878
 Volumes I and II* of the Fourth International 000878
 Volumes 1-3* and Engineering Analysis of Truck, Belt, 000878
 Volumes and Transportation Costs of Fossil Fuels 000878
 Volumes I and II* A Comparative 000878
 Volumes I - III* 000878
 Volumes I-IV* 000878
 Voluntary Business Energy Conservation Program: 000878
 Wage Rates: Railroads of Class 1* 000878
 Walk Time from Vehicle to Final Destination* 000878
 Wall Quench and Flammability Limit Effects on Exhaust 000878
 Ward's Automotive Yearbook: 1978* 000878
 Washington, Notes and Technical Appendices* Urban Data: 000878
 Washington, D.C. Metrorail System. Volumes I and II (000878
 Waste* 000878
 Waste Heat in Trucks for Increased Fuel Economy. Final 000878
 Watching* 000878
 Water-Air Batteries* Lithium 000878
 Water-Air Battery for Automotive Propulsion* 000878
 Water* Transport Statistics in the United States for 000878
 Water Freight* 000878
 Waterborne Commerce Statistics* 000878
 Waterborne Commerce of the United States: Calendar Year 000878
 Waters of the United States* Carrying Oil in Foreign 000878
 We Learn from Abroad* of Urban Development and Planning 000878
 Weekend Travel Phase II. Weekend Travel Model* 000878
 Weekend Travel Model* Forecasting Procedures Including 000878
 Weekly Truck Tonnage Report* 000878
 Weight, Payload, Effective Range, and Cost of Electric 000878
 Weight Watching* 000878
 Weight Data for 1971 and Their Evaluation* 000878
 Wharton E.P.A. Automobile Demand Model* Run Determinants 000878
 Wharton E.P.A. Automobile Demand Model* the Demand for 000878
 Wharton E.P.A. Automobile Demand Model* of the 000878
 Wheels: Phase II. Final Report, Period January 1975 000878
 Where Transit Works: Urban Benefits for Public 000878
 Where Express Buses Work* 000878
 Wholesale Trade. Subject Series: Petroleum Bulk 000878
 Will There Be a Materials Crisis? 000878
 Winds on the Aerodynamic Resistance of Automobiles* 000878
 Winter 1976-77* 000878

PERMUTED TITLE INDEX

#Location, Housing, Auto Ownership and Mode to for New Jersey*	#Bidesharing to Work: A Psychosocial Analysis*	000310
Analysis and Comparison of Railroad and Truck Line-Haul	Work: A Joint Choice Model*	000371
#Alternative	Work Trips: Analysis of Alternative Consulting Patterns	000383
#Some Urbanized Area Journey to	Work (Energy) Requirements*	000428
#Where Express Buses	Work-Force Migration Patterns, 1970-76*	000526
#Where Transit	Work Schedules*	000733
Land Use and Energy Utilization*	Work Statistics*	000757
#The Planner's Energy	Works: Urban Densities for Public Transportation*	000776
A Report of an Informal Transportation Research Board	Workshop: A Manual for Exploring Relationships Between	000519
the Hybrid Vehicle Interest and Capability Assessment	Workshop* Through Improved Motor Vehicle Efficiency.	000113
#Proceedings of the	Workshop*	000141
#Balancing Requirements for	Workshop on Urban Freight Consolidation*	000163
#Forecasts of Aircraft Activity by Altitude,	World Road Statistics: 1970-1974. Edition 1975*	000649
Tons and Over as of December	World Motor Vehicle Data: 1977 Edition*	000322
Draft by Frequency	World Oil and Energy*	000431
#A Statistical Analysis of the	World Region, and Aircraft Type*	000474
#First	World: Oceangoing Steam and Motor Ships of 1,000 Gross	000501
#A Pictorial Characterization of	World's Merchant Fleets Showing Age, Size, Speed, and	000642
and Energy Conservation. Highlight Report. Volume	World Hydrogen Energy Conference. Volumes I - III*	000643
XIII*	Worldwide Electric and Hybrid Vehicles*	000740
#Travel Market	(x) Lightweight Car Diesel Engine*	000349
#Minerals	Yearbook of Railroad Facts: 1978 Edition*	000299
#Ward's Automotive	Yearbook: 1976/1977*	000484
Operating Cost and Performance Report for Calendar	Yearbook: 1975. Volume 1. Metals, Minerals, and Fuels*	000040
#Local Service Carriers Passengers Enplanements: Fiscal	Yearbook: 1978*	000476
Carrier Domestic Passenger Enplanements: Fiscal	Years 1975 and 1976*	000670
of Auto Fuel Economy and Performance in Recent Model	Years 1976 and 1975*	000750
Electric Versus a Gasoline Powered Utility Truck in Two	Years*	000131
Aviation Forecasts - Fiscal	Years of a Service Test Program*	000137
by Fare #Truck Carriers--Coach Class: Traffic, Revenue,	Years 1978-1989*	000138
#New	Yield, Enplanements and Average On-Flight Trip Length	000386
#Automotive Energy Use: A Baseline Projection for New	York State Intercity Travel Data, 1975. Volume II*	000415
#Track Data Characteristics for New	York State*	000683
#Analysis of User Response to the 1975 New	York City - Buffalo Corridor*	000135
#Development of Large Size Nickel-	York City Transit-Fare Increase (Abridgment)*	000200
#The Nickel-	Zinc Cells for Electric Vehicles*	000260
	Zinc Battery: A Viable Alternative for Vehicle Powering*	000419
		000480
		000146
		000492