BIBLIOGRAPHY OF FLYWHEEL ENERGY STORAGE SYSTEMS

E. A. Henry, K. W. Johnson, F. E. McMurphy, and T. M. Quick

September 30, 1977

This preliminary bibliography has been prepared for distribution at the 1977 Flywheel Technology Symposium in San Francisco, California, October 5-7, 1977.

This is an informal report intended primarily for internal or limited external distribution. The opinions and conclusions stated are those of the author and may or may not be those of the laboratory.

Foreword

The Data Management Research Project in the Computation Department of the Lawrence Livermore Laboratory (LLL/DMRP) has the responsibility to advance the state of the art in the efficient use of information and data by machine. We distinguish two main activities: First, we provide support to LLL and ERDA in programs that deal with the prime mission of our Laboratory and with energy and environmentally related research and development. Second, we design and implement data base management techniques to permit a more effective use of the growing requirements for data by administrators, engineers and scientists who are not computer programmers.

One of the most challenging projects undergoing development by the staff of LLL/DMRP is the creation of an Integrated Information System (IIS) for the rapidly expanding import of energy storage. This project, under contract to the Energy Storage Division of the U.S. Energy Research and Development Administration (ERDA/STOR), is to provide a user-oriented data base and technical/management information system by interactive access to accurate and up-to-date: Material properties and their supporting bibliographies, storage technology characterization data, energy storage systems data, and models for decision analysis. Preparations are under way to aggregate these technical and administrative data bases on a PDP-11/70 computer at LLL, accessible over the ARPAnet and by telephone dialup. Contract No. E(49-1)-3835.

This bibliography on the properties and the mechanics of fiber composites, matrix materials, and on flywheel energy storage systems is one of a series of timely references to the world literature:

1. Flywheels & Fiber Composites
2. Molten Salt Electrolytes
3. Thermal Energy Storage Materials
4. Aqueous Electrolytes
5. Hydrogen Energy Storage Materials
The present Flywheel Bibliography is a preliminary edition
issued especially for the 1977 Flywheel Technology Symposium in
San Francisco, California, October 5-7. We hope that any missing
citations, or comments in general, will be brought to our attention
in time for a more complete edition to be published for the forth-
coming Second International Conference on Composite Materials (ICCM-II)
to be held in Toronto, Canada, April 16-18, 1978.

The bibliographic data bases are the precursors to numerical
data bases of material properties. These are being created at LLL
in parallel with data that is evaluated by nationally recognized
evaluation centers under auspices of the Office of Standard Reference
Data of the National Bureau of Standards, and administrative leadership
by Dr. Lew Gevantman.

In the future, these data bases will be made accessible over
the ARPAanet and by telephone dialup, as indicated earlier. At that
time, the time lag necessarily associated with a printed rendition
will be shortened considerably.

The ERDA Division of Energy Storage Systems is directed by
Dr. George F. Passdirtz. The contract of our work is being administered
by Dr. Lynne Holt of the Applications Analysis Branch. The Flywheel
Bibliography has been prepared in particular to provide the Advanced
Physical Systems Branch, under Dr. George Chang, with a useful reference
guide to ongoing research in the field.1-4

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Introduction

A rotating wheel contains stored mechanical energy and, if connected to an engine or machine, acts as a "flywheel" to smooth out speed variations by alternately absorbing or delivering energy as its speed is increased or decreased by the machine. The principle is probably as old as the wheel itself, and is used in the ancient potter's wheel, in steam and gasoline engines, and in large equipment such as a dragline shovel.

To achieve increased energy concentration, flywheels would need to operate at high speeds that generate tremendous centrifugal force. To reduce the possibility of accidents, recent attempts to design high capacity flywheels (for load-leveling and other applications) have concentrated on super-strong material and safety designs.

The illustration below shows a flywheel powered passenger bus built in Switzerland. Electrical energy, drawn from trolley wires at periodic stops, speeds up the large internal flywheel to store the energy needed to operate the bus at other times. Similar buses - actually large-scale versions of the familiar child's toy - are being developed for use in San Francisco, and the idea is being tested for subway cars in New York City.

Figure 1:

The first commercial vehicular use for a flywheel was a gyrobus that was used both in Switzerland and the Belgian Congo. Basically, the gyrobus drew electric power from an overhead pole to spin up a flywheel. In turn, the flywheel drove a generator that powered the road wheel motors. The "refuelling" poles were spaced about a half-mile apart, and the bus was required to stop at each pole. The vehicle itself was 35 feet long, weighed 24,000 pounds, and was designed for 35 seated and 35 standing passengers.
The amount of mechanical (or kinetic) energy that can be stored in a rotating wheel depends, of course, on its weight and the square of its speed of rotation. To stretch the limits of energy stored, problems of air- and bearing-friction have to be overcome, and new materials tested that would withstand the large centrifugal forces and depreciation of material properties as a result of fatigue from prolonged operation.

Considerable progress has been made in recent years in the design of flywheel applications and of advanced fiber composites and matrix materials to render this method of energy storage safe and cost-effective. One design of interest is the fanned brush that uses long thin fibres of various materials, such as steel wires, fiber glass, and other filaments, that have unusually high-strength properties in the long direction. Other designs are based on concentric rings of strong fiber composites separated by small gaps filled with bonded resilient material. This minimizes radial stress that tends to cause the wheel to fail at high speeds.

The advantages of these "superflywheels" for storage of electric energy are that they are 70%-80% efficient and could be placed conveniently close to points of heavy load demand. A proposed design of a large load-leveling flywheel unit is shown in Figure 2.

Clearly, as this field of energy storage is expanding, new and highly sophisticated hybrid systems are starting to evolve in competition with other contemporary techniques: Batteries, compressed air, magnetic and hydrogen-based systems, in addition to perhaps more conventional modes like thermal storage and the load-leveling of hydroelectric power generation.

This preliminary publication of the Flywheel Bibliography is meant, therefore, to provide a reasonably up-to-date survey of this specific field of the literature that is rapidly expanding. Figure 3.
Figure 2:

This peak power unit would store energy from an electric power plant during off-peak hours and would generate energy at times of peak load. The fiber composite flywheel would be about 15 feet in diameter and weigh about 200 tons. It would be coupled to a generator-motor that would function as a motor when the flywheel was being spun up to store energy and as a generator when the system was drawing on the flywheel's stored energy. 

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Figure 3: Number of Publications Used in the Preliminary Edition of the *Flywheel Bibliography* as a function of Time:

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The publication peaks are shown to occur fortuitously in 1974 and 1975. This is characteristic of most bibliographies. It indicates merely the time lag before relevant publications appear in the computerized data banks of secondary references to the world literature.* We are making provisions to shorten this inadvertent delay when our on-line data banks become operational, as part of the Integrated Information System. 8

Detailed Description

The main body of the report consists of two parts: The Concordance and Main Listing.

The Concordance, Part-1

The concordance is an alphabetic listing of the following information elements:

* Essential expressions from titles
* Authors from single and multiple author lists
* Organizations and corporate authors
* Keywords and Keyphrases

Non-essential expressions derived by computer from titles were removed. Under each alphabetic listing of terms from the above information elements are five columns, describing each relevant citation from the left:

* Chronological date of publication
* Title
* Author(s)
* Category number, as defined by us below
* Citation number which links the Concordance with the main listing.

* Refer, for example to the "MULTIPHOTON BIBLIOGRAPHY 1970-1976", UCRL-13728

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The Main Bibliographic Listing, Part-2

We found it useful to establish six subject categories for the main bibliographic listing. Within each category, citations are shown in chronologically ascending order of their date of publication. Citation numbers which provide the link between the concordance and the main listing provide the main entry to the bibliographic listing and are in ascending order, encompassing all six categories:

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<td>V</td>
<td>Overview of Energy Resources</td>
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<td>VI</td>
<td>Fiber Composite Properties</td>
<td>254-382</td>
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Each bibliographic citation in the main listing is appropriately categorized by its main subject heading at the top of each page. The citation number at the left is set apart for rapid scanning. Individual descriptive fields in each citation vary from case to case, depending upon the origin of each citation. Only fields containing information are shown. However, more information and data is contained in the computer data bank than that shown in this publication.

Some Aspects of Computerization

Citations for this Flywheel Bibliography have been derived from a search of the world literature, employing machine and manual scanning of sources shown in Table-I.

All citations and additional intelligence were keyboarded at LLL from the original documents, mostly government reports. The preliminary
version of the bibliography, as shown here, extends in time only through June, 1976. The more recent publications through December, 1977, will be added for the next addition to be published in April, 1978. Several aspects are noteworthy:

First, the printing of the bibliography represents a snapshot in time generated directly by machine in camera-ready form on a high-resolution camera of the FR-80 devices available at LLL. Standard commands for text manipulation of the MASTER CONTROL Data Base Management System were used to create this bibliography.\textsuperscript{5-7} Although we find that interactive lookup by computer provides an immediate and up-to-date insight into the state of a particular data base, we value the printed book that can be perused quickly and at liberty, even by those that do not have access to the computer system.

Second, a computer-based data bank lends itself readily to the identification of statistics. Some of these are shown in the tables below. Here we are very mindful that statistics on the number of publications by personal and corporate authors do not necessarily indicate relevance or the quality of the contributions, especially when the statistics are small - as is the case here. However, the interactive information systems, e.g. ERDA/RECON and others, do provide statistics as a byproduct of each search. In this sense we believe it appropriate to share with you some of the observations available to us on this bibliography:

FLYWHEEL PUBLICATIONS BY AUTHOR

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<td>H. Schreck</td>
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<td>etc.</td>
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</table>
Third, we wish to emphasize the human aspects of a properly designed bibliography where the professional contribution of skilled reviewers is invaluable. By adding qualifying information in descriptive and numerical form to each citation of a computer-based data bank, we open a new domain for decision making.

Acknowledgement

The following have worked on this Flywheel Bibliography:

Viktor E. Hampel, Principal Investigator for the project; Terrence M. Quick, Materials scientist and Project Leader; Eugene E. Henry, Physicist; Frederick E. McMurphy, chemist; Keith W. Johnson, physicist; Barbara J. Mallon, chemist; Donna M. Chato, computer programmer; and Doris H. Ryan, computer technician. The MASTER CONTROL program has readied for this production by Robert W. Kuhn and Barbara Flusche, computer scientists.
The assistance of William E. Madden of the LLL Technical Information Department, and the keyboarding by Adele K. Larson and her staff are gratefully acknowledged.

Additions, corrections and comments that would affect our future publications by making them useful and by disseminating them to those who need this information should be directed to:

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Data Management Research Group  
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Tel.: (415) 447-1100 Ext. 4995  
FTS: 457-4995
Table-I: CURRENT AWARENESS SERVICES SEARCHED FOR THIS BIBLIOGRAPHY

1. **Engineering Index (Compendex)**
   Covers the world's significant technical literature and conferences encompassing all engineering disciplines. Covered are 2299 professional and industrial journals, proceedings, special publications, monographs, reports, etc.

2. **Nuclear Science Abstracts**
   Covers the international nuclear science literature. The journals regularly scanned are contained in "Serial Titles Cited in Nuclear Science Abstracts."

3. **Chemical Abstract Condensates (Chemcon)**
   CA Condensates provide a computer readable service which corresponds to Chemical Abstracts. Some 13,000 journals as well as patents from 26 countries, conference proceedings, and government research reports are covered.

4. **National Technical Information Service (NTIS)**
   This data base covers government sponsored research and development reports since 1970.

5. **Congressional Information Service Index (CIS Index)**
   CIS Index covers publications of the United States Congress since 1970.

6. **ERDA Energy Data Base (EDB)**
   EDB contains over 98,000 entries, encompassing all areas of energy-related information.

7. **Energy Data Base**
   Over 5,000 entries in this data base cover the use, generation, distribution, environmental effects, and sources of all forms of energy.

8. **ERDA Research Abstracts (ERA)**
   ERA provides abstracting and indexing service for all scientific and technical reports, journal articles, conference papers and proceedings, etc., originated by ERDA, its Laboratories, energy centers, and contractors.

9. **Applied Science and Technology Index**
   Over 200 English Language periodicals in the field of aeronautics, space science, and related areas are covered in this cumulative subject index.

10. **Readers Guide to Periodical Literature**
    A cumulative author-subject index is provided to approximately 160 periodicals of general interest in the United States.

11. **International Aerospace Abstracts**
    This service provides coverage of the world literature in aeronautics and space science.
12. Scientific and Technical Aerospace Abstracts
Aeronautics, space science, and supporting disciplines are covered. Included are NASA and NASA contractor reports, reports by U.S. government agencies, translations that appear as reports, NASA-owned patents and patent applications, dissertations and theses.

13. Information Services for Mechanical Engineering (ISMEC) Bulletin
The ISMEC Bulletin includes nearly 300 primary publications worldwide, covering all aspects of mechanical engineering, production engineering, and engineering management.

14. Energy Abstracts for Policy Analysis
This service provides abstracting services and indexing of selected non-technological literature, contributing to energy-related analysis and evaluation in areas such as policy, conservation, research and development, economics and sociology, etc. The material is taken from Congressional Committee prints, Federal agency reports, regional and state government reports and documents, news reports, books and conference proceedings.

15. Energy Review
This service reviews selected works on the general subject of energy.

Note: Of the above abstracting and current awareness services the first seven are in use as computer-readable data bases.
References


3. Terrence M. Quick, "Research Leading to the Production and Early Use of Numeric Data Banks of Material Properties and System Analyses." Quarterly Progress Reports, UCRL-50038-76-1/4, etc. Data Management Research Group, Lawrence Livermore Laboratory, P.O.Box 808, Livermore California, 94550.

4. Terrence M. Quick, "Technological Data Bases in Energy Storage," UCRL-78786, Rev. 1, Summary, Lawrence Livermore Laboratory, Livermore, California, 94550.


Part - 1

CONCORDANCE OF SUBJECTS AND AUTHORS
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<td>Adams, L. R.</td>
<td>Application of Isotensoid Flywheels to Spacecraft Energy and Angular Momentum Storage</td>
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AUTHORS.......: LEHMANN, E. J.
ORGANIZATION: NTIS
ADDRESS......: SPRINGFIELD, VA.
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

I PROPERTIES OF FLYWHEELS

42 TITLE........: DESIGN AND APPLICATIONS OF FLYWHEELS (A BIBLIOGRAPHY WITH (CONT'D.)
SOURCE........: REPORT FOR 1964-OCT. 1974
PUBL. DATE.....: JAN 1975

43 TITLE........: METALS AND COMPOSITES IN SUPERFLYWHEEL ENERGY STORAGE SYSTEMS
AUTHORS.......: RABENHORST, D. W.
SOURCE........: SAMPE Q. 6 2, 23.
PUBL. DATE.....: JAN 1975
KEYWORDS......: ANISOTROPY/COMPOSITE MATERIALS/ENERGY STORAGE/FLYWHEELS/MATERIALS TESTING/

44 TITLE........: DEVELOPMENT OF HIGH-DENSITY INERTIAL-ENERGY STORAGE
AUTHORS.......: BROBECK, W. M. ASSOC.
SOURCE........: EPRI 269-1 FINAL REPORT, JULY 1975, FOR ELECTRIC POWER RESEARCH INSTITUTE
PUBL. DATE.....: JUL 1975

45 TITLE........: DESIGN AND DEVELOPMENT OF A MOMENTUM WHEEL WITH A MAINLY PASSIVE MAGNETIC BEARING FINAL REPORT
AUTHORS.......: ESA
SOURCE........: (CONTRACT ESTEC-2038/73-PP (MU/EX-47.055/75; ESA-CR(P)-696
AVIL: NTIS HC $4.50
PUBL. DATE.....: JUL 1975
KEYWORDS......: FLYWHEELS/MAGNETIC BEARINGS/FLYWHEEL DESIGN
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

I PROPERTIES OF FLYWHEELS

46 TITLE........: DESIGN AND APPLICATIONS OF FLYWHEELS (A BIBLIOGRAPHY WITH ABSTRACTS)
AUTHORS......: HABERCOM, G. E.
ORGANIZATION: NTIS
ADDRESS......: SPRINGFIELD, VA.
SOURCE.......: NTIS/PS-75/743/5SL
PUBL. DATE...: OCT 1976

47 TITLE........: ON OPTIMAL SHAPES FOR ANISOTROPIC ROTATING DISKS.
AUTHORS......: GERSTLE, F. P. / BIGGS, F.
SOURCE.......: SOCIETY OF ENGINEERING SCIENCE, ANNUAL MEETING, 12TH,
AUSTIN, TEXAS, OCTOBER 20-22, 1975, PROCEEDINGS. P. 143-153
PUBL. DATE...: OCT 20 1975
KEYWORDS.....: FLYWHEELS/ANISOTROPIC/SHAPES OF FLYWHEELS/ENERGY STORAGE

48 TITLE........: EPOXY RESINS FOR FLYWHEEL APPLICATIONS.
AUTHORS......: RINDE, J. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE.......: LAWRENCE LIVERMORE LABORATORY REPORT UCRL-77543, NOV. 1975.
PROC. OF THE 1975 FLYWHEEL TECHNICAL SYMPOSIUM, BERKELEY,
CA, NOV. 10-12, 1975.
PUBL. DATE...: NOV 1975
TYPE..........: REPORT
CATEGORY......: MATERIAL PROPERTIES

49 TITLE........: MOMENTUM WHEELS
AUTHORS......: TOROSSIAN, R.
ORGANIZATION: AEROSPATIALE, FRANCE
I PROPERTIES OF FLYWHEELS

49 TITLE........: MOMENTUM WHEELS (CONTD.)
PUBL. DATE....: NOV 1975
CONFERENCE....: FLYWHEEL TECHNOLOGY SYMPOSIUM, BERKELEY, CA, NOV 1975.

50 TITLE........: 1975 FLYWHEEL TECHNOLOGY SYMPOSIUM
AUTHORS.......: ENERGY RESEARCH AND DEVELOPMENT ADMINISTRATION, AND
LAWRENCE LIVERMORE LABORATORY
EDITOR........: CHANG, G. C.
SOURCE........: ERDA-76-85
PUBL. DATE....: NOV 10 1975
DATE..........: NOV. 10-12, 1975

51 TITLE........: AN IMPROVED ROTATABLE MASS FOR A FLYWHEEL
AUTHORS.......: WLEYER, GEORGE M. JR. PATENT APPLICATION 14 NOV 1975
SOURCE........: (NASA-CASE-MFS-23051-1; US-PATENT-APPL-SN-632111) AVAIL:
NTIS NC $3.50 CSCL 20K
PUBL. DATE....: NOV 14 1975
KEYWORDS.....: FLYWHEELS/ENERGY STORAGE/FIBER COMPOSITES/FLYWHEEL DESIGN

52 TITLE........: FIBER EVALUATION FOR FLYWHEEL APPLICATIONS
AUTHORS.......: PENN, L. S. / CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: LAWRENCE LIVERMORE LABORATORY REPORT UCRL-77569, DEC.15,
1975. / PROC. OF 1975 FLYWHEEL TECHNICAL SYMPOSIUM,
BERKELEY, CA, NOV. 10-12, 1975.
PUBL. DATE....: DEC 15 1975
TYPE..........: REPORT
CATEGORY.....: MATERIAL PROPERTIES
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

I PROPERTIES OF FLYWHEELS

53 TITLE........: MECHANICAL DESIGN OF A COMPOSITE CENTERLESS FLYWHEEL
AUTHORS........: BLAKE, A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA. 94550
SOURCE.........: UCRL-51978
CONTRACT #......: W-7405-ENG-48
PUBL. DATE......: DEC 16 1975
TYPE...........: REPORT
PUBLISHER.......: LLL
KEYWORDS.......: COMPOSITE MATERIALS/ CONFIGURATION/ DESIGN/ ENERGY STORAGE/
FILAMENTS/ FLYWHEELS/ RINGS/ STRESSES

54 TITLE........: FERRO-RESONANT CIRCUIT FOR A NEW FLYWHEEL MOTOR GENERATOR
AUTHORS........: AALAND, K.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA. 94550
SOURCE.........: UCRL-77508-ABSTRACT
PUBL. DATE......: 1976

55 TITLE........: FLYWHEELS, A REPORT BIBLIOGRAPHY
AUTHORS........: DEFENSE DOCUMENTATION CENTER
ORGANIZATION: DEFENSE DOCUMENTATION CENTER
ADDRESS........: ALEXANDRIA, VA.
SOURCE.........: SCN-CF022D
PUBL. DATE......: FEB 16 1976

56 TITLE........: FLYWHEELS, A SELECTED BIBLIOGRAPHY
AUTHORS........: MADDEN, W. E.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA. 94550
56  TITLE........: FLYWHEELS, A SELECTED BIBLIOGRAPHY (CONTD.)
SOURCE........: LLL-TID-BIB-1093
PUBL. DATE....: MAR 16 1976

57  TITLE........: FIBER COMPOSITE PROGRAM FOR FLYWHEEL APPLICATIONS
AUTHORS........: STONE, R. G.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA, 94550
SOURCE........: UCRL-50033-76-1
PUBL. DATE....: MAY 1976

58  TITLE........: RESEARCH LEADING TO THE PRODUCTION AND EARLY USE OF NUMERIC
DATA BANKS OF MATERIAL PROPERTIES AND SYSTEM ANALYSES
AUTHORS.........: HENRY, E. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.........: LIVERMORE, CA, 94550
SOURCE..........: UCRL-50038-76-1,-2,-3,-4,-5
PUBL. DATE......: MAY 14 1976

59  TITLE........: COMPOSITE FIBER FLYWHEEL FOR ENERGY STORAGE
AUTHORS.........: RINDE, J. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.........: LIVERMORE, CA, 94550
SOURCE..........: UCRL-78085
PUBL. DATE......: JUN 04 1976
II FLYWHEELS IN VEHICLES

60 TITLE........: COMPARISON OF ELECTRICALLY RUN UP FLYWHEEL (DC MOTOR) WITH TURBINE. HOT GAS MOTOR AND OTHER SYSTEMS FOR MINUTEMAN APPLICATION.

AUTHORS........: FRUKTOW, N. N.
ORGANIZATION: TRW SPACE TECHNOLOGY LABS.
ADDRESS.......: LOS ANGELES, CA.
SOURCE........: TN-59-0000-00266
PUBL. DATE....: MAY 1959
TYPE..........: REPORT

KEYWORDS......: COMPARATIVE EVALUATIONS/ FLYWHEELS/ MISSILES

61 TITLE........: ON-BOARD ENERGY STORAGE IN RAIL RAPID TRANSIT

AUTHORS........: MARLOWE, E. W.
ORGANIZATION: DEVELOPMENT LABS., INC.
ADDRESS.......: SANTA MONICA, CAL.
SOURCE........: TN-64-23
PUBL. DATE....: JUN 1964
TYPE..........: REPORT
PUBLISHER.....: DEVELOPMENT LABS., INC.

KEYWORDS......: CONTROL SYSTEMS/ DESIGN/ ENERGY STORAGE/ FLYWHEELS/ MECHANICAL TRANSMISSIONS/ RAPID TRANSIT SYSTEMS/ TRAINS

62 TITLE........: GENERAL THEORETICAL ANALYSIS AND EVALUATION OF AN EXPERIMENTAL MODEL OF A CONSTANT-SPEED FLYWHEEL POWER SOURCE

AUTHORS........: MATTHEWS, L. E. / EVERETT, W. D. / BINDER, R.
ORGANIZATION: U. S. NAVAL MISSILE CENTER
ADDRESS.......: POINT MUGU, CA.
PUBL. DATE....: JUN 25 1964
TYPE..........: REPORT

KEYWORDS......: FLYWHEELS/VEHICLES/FLYWHEEL-LIQUID FILLED
II FLYWHEELS IN VEHICLES

63 TITLE........: TRANSFER LINE FOR SHORT RUNS
AUTHORS.......: AM. MACH.
SOURCE.......: AM. MACH. 109, P 83, AUG 16, 1965
PUBL. DATE...: AUG 16 1965

64 TITLE........: SPECIFICATIONS FOR SHIPBOARD STORED ENERGY CATAPULT
FLYWHEEL PACKAGE
AUTHORS.......: NAVAL ORDNANCE STATION, FOREST PARK, ILL.
SOURCE.......: AD-876 244L, IDEF 347.55.00.00-Y7-05S
PUBL. DATE...: APR 14 1966

65 TITLE........: EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS
FOR AIRCRAFT ACTUATION FUNCTIONS
AUTHORS.......: NORTH AMERICAN AVIATION INC, LOS ANGELES DIV.
SOURCE.......: NA-66-1142-1, QUARTERLY TECH. RPT. NO. 1, 1 JUL-30SEP 1966
CONTRACT #...: AF33(615)-5173
PUBL. DATE...: OCT 12 1966

66 TITLE........: FLYWHEEL ENERGY STORAGE SYSTEMS FOR TRANSIT BUSES
AUTHORS.......: WILCOX, J. P.
ORGANIZATION: Battelle Labs.
ADDRESS......: Columbus, OH10
PUBL. DATE...: OCT 1967
TYPE.........: REPORT
PUBLISHER...: Battelle Columbus Labs.

KEYWORDS.....: BUSES/ ECONOMICS/ ENERGY STORAGE/ FEASIBILITY STUDIES/
FLYWHEELS/ RAPID TRANSIT SYSTEMS/ REGENERATIVE BRAKING/
TRANSIENTS
II FLYWHEELS IN VEHICLES

67 TITLE: FLYWHEEL INERTIA ACTUATES AUTOMATIC ANTI-SKID DEVICE
AUTHORS: PRODUCT ENG.
SOURCE: PRODUCT ENG. 38, P 59, DEC 18, 1967
PUBL. DATE: DEC 18 1967

68 TITLE: PRIMARY ENERGY STORAGE AND THE SUPER FLYWHEEL
AUTHORS: RABENHORST, D. W.
ORGANIZATION: APPLIED PHYSICS LAB., JOHNS HOPKINS UNIV.
ADDRESS: SILVER SPRING, MD.
SOURCE: AD--697906; APL--TG-1081
CONTRACT #: NOW--62-0604-C
PUBL. DATE: SEP 1969
KEYWORDS: FLYWHEEL/FLYWHEEL DESIGN/ENERGY STORAGE/SUPERFLYWHEEL

69 TITLE: STUDY OF UNCONVENTIONAL THERMAL, MECHANICAL, AND NUCLEAR LOW-POPLUTION-POTENTIAL POWER SOURCES FOR URBAN VEHICLES
ORGANIZATION: BATTELLE COLUMBUS LABS.
ADDRESS: OHIO (USA)
SOURCE: AD--69-51
CONTRACT #: PH 66-67-109
PUBL. DATE: OCT 1969
TYPE: FB--192321
CATEGORY: ENERGY CONVERSION HEAT SOURCES
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

70 TITLE........: STUDY OF UNCONVENTIONAL THERMAL, MECHANICAL, AND NUCLEAR LOW-
POLLUTION-POTENTIAL POWER SOURCES FOR URBAN VEHICLES

AUTHORS.......: BATTELLE COLUMBUS LABS.
ORGANIZATION: BATTELLE COLUMBUS LABS.
ADDRESS.......: OHIO (USA)
SOURCE........: NP--20359
CONTRACT # ....: PH 86-67-109
PUBL. DATE....: OCT 1969

CATEGORY.......: ENERGY CONVERSION ENERGY SOURCES REACTORS--POWER SNAP
TECHNOLOGY

KEYWORDS......: AIR FILTERS/ AUTOMOBILES/ AUTOMOTIVE FUELS/ COMBUSTION
CHAMBERS/ COMPARATIVE EVALUATIONS/ COST/ DESIGN/ ENERGY
STORAGE/ EXHAUST GASES/ FEASIBILITY STUDIES/ FLYWHEELS/ FUEL CONSUMPTION/ GAS TURBINES/ HEAT
ENGINES/ HYDRODYNAMICS/ MECHANICAL TRANSMISSIONS/ MHD
GENERATORS/ ML-1 REACTOR/ MOBILE REACTORS/ NUCLEAR
POWER/ PERFORMANCE/ POWER TRANSMISSION/ PROPULSION/ RADIOISOTOPE BATTERIES/ RADIOISOTOPE HEAT SOURCES/ RANKINE
CYCLE ENGINES/ REVIEWS/ SNAP REACTORS/ SNAP 8
REACTOR/ SPRINGS/ STIRLING ENGINES/ THERMIONIC
CONVERTERS/ THERMOELECTRIC GENERATORS/ USES/ WORKING FLUIDS/

71 TITLE........: WIND UP CAR

AUTHORS.......: HOHENEMSER, K. / MCCAUll, J.

SOURCE.......: ENVIRON 12, P 14, JUN 1970.
PUBL. DATE....: JUN 1970

72 TITLE........: HIGH-SPEED ENERGY WHEEL OFFERS TROLLEYS PORTABLE ELECTRICITY

AUTHORS.......: PRODUCT ENGINEERING

SOURCE.......: PROD. ENG. 41: 80, JULY 20, 1970
PUBL. DATE....: JUL 20 1970

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II FLYWHEELS IN VEHICLES

73 TITLE........: SUPER FLYWHEEL TO POWER ZERO-EMISSION CAR
AUTHORS.......: ARMAGNAC, A. P.

SOURCE........: POPULAR SCIENCE 197, P 41, AUG 1970.
PUBL. DATE....: AUG 1970

74 TITLE........: CUT SUBWAY POWER COSTS
AUTHORS.......: NEW YORK CITY METROPOLITAN TRANSPORTATION AUTHORITY

PUBL. DATE....: SEP 1970

75 TITLE........: SURVEY OF PROPULSION SYSTEMS FOR LOW EMISSION URBAN VEHICLES, FINAL REPORT.
AUTHORS.......: FRAIZE, W. E. / LAY, R. K.
ORGANIZATION: MITRE CORP.
ADDRESS.......: MCLEAN, VA.

CONTRACT #....: F19628-68-C-0365
PUBL. DATE....: SEP 1970
TYPE...........: REPORT

KEYWORDS......: AIR POLLUTION/ AUTOMOBILES/ AUTOMOTIVE FUELS/ ELECTRIC-POWERED VEHICLES/ ENGINES/ EXHAUST GASES/ FLYWHEELS/ FOSSIL FUELS/ FUEL CELLS/ HEAT ENGINES/ INTERNAL COMBUSTION ENGINES/ RANKINE CYCLE ENGINES/ REVIEWS/ URBAN AREAS

76 TITLE........: SUPER FLYWHEEL CONFIGURATIONS FORM HEART OF MECHANICAL-POWERED DRIVES
AUTHORS.......: CHIRONIS, N. P.

SOURCE........: PRODUCT ENG. 42, P 54, APR 12, 1971.
PUBL. DATE....: APR 12 1971
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

77 TITLE........: FLYWHEEL FEASIBILITY STUDY AND DEMONSTRATION. FINAL REPORT
AUTHORS........: GILBERT, R. R./HARVEY, J. R./HEUER, G. E./LAWSON, L. J.
ORGANIZATION: LOCKHEED MISSILES AND SPACE CO.
ADDRESS........: SUNNYVALE, CALIF. (USA)
SOURCE.........: (D--007915)=(D007915) STANDARDS/URBAN AREAS/VEHICLES/AIR
POLLUTION/FLYWHEELS/HYBRID
PUBL. DATE.....: APR 30 1971
CATEGORY.......: ENERGY CONVERSION
KEYWORDS......: ENERGY STORAGE/FEASIBILITY STUDIES/PERFORMANCE TESTING

78 TITLE........: EVALUATION OF HYBRID HEAT ENGINE/ELECTRIC SYSTEMS FOR LOW
EXHAUST EMISSION POTENTIAL IN AUTOMOTIVE APPLICATIONS
AUTHORS........: LAPEDES, D. E./MELTZER, J.
SOURCE.........: SAE, INTERSOCIETY ENERGY CONVERSION ENG CONF, PAP 719151
PUBL. DATE.....: AUG 03 1971
LOCATION......: BOSTON, MASS.
DATE...........: AUG 3-5, 1971

79 TITLE........: DESIGN AND TESTING OF HIGH ENERGY DENSITY FLYWHEELS FOR
APPLICATION TO FLYWHEEL HEAT ENGINE HYBRID VEHICLE DRIVES
AUTHORS.........: LAWSON, L. J.
SOURCE.........: 1971 INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE
PAPER 719150, P. 1142 BOSTON, MA 3 AUG 1971
PUBL. DATE.....: AUG 03 1971
PUBLISHER......: SOCIETY OF AUTOMOTIVE ENGINEERS, INC. NEW YORK
LOCATION......: BOSTON, MA
DATE...........: 3 AUG 1971
KEYWORDS......: ACCELERATION/AUTOMOBILES/DESIGN/ENERGY STORAGE/EXHAUST
GASES/FLYWHEELS/GEOMETRY/HEAT ENGINES/HYBRID
SYSTEMS/MATERIALS/PERFORMANCE TESTING/POWER/
VEHICLES/ENERGY STORAGE/FLYWHEELS/GEOMETRY/HYBRID SYSTEMS/
PERFORMANCE TESTING/POWER
II FLYWHEELS IN VEHICLES

80 TITLE: FLYWHEEL AND FLYWHEEL HEAT ENGINE HYBRID PROPULSION SYSTEMS FOR LOW-EMISSION VEHICLES
ORGANIZATION: JOHNS HOPKINS UNIV.
ADDRESS: BALTIMORE
SOURCE: PAPER 719149, P. 1126, 1971 INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE BOSTON, MA 3 AUG 1971
PUBL. DATE: AUG 03 1971
PUBLISHER: SOCIETY OF AUTOMOTIVE ENGINEERS, INC. NEW YORK
LOCATION: BOSTON, MA
DATE: 3 AUG 1971

81 TITLE: POTENTIAL APPLICATIONS FOR THE SUPERFLYWHEEL
AUTHORS: RABENHORST, D. W.
ORGANIZATION: JOHNS HOPKINS UNIV.
ADDRESS: BALTIMORE
SOURCE: 1971 INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE PAPER 719148, P. 1118 BOSTON, MA 3 AUG 1971
PUBL. DATE: AUG 03 1971
PUBLISHER: SOCIETY OF AUTOMOTIVE ENGINEERS, INC. NEW YORK
LOCATION: BOSTON, MA
DATE: 3 AUG 1971
KEYWORDS: AIRCRAFT/COST/ENERGY STORAGE/FLYWHEELS/NOISE/PURS/PERFORMANCE/POWER SUPPLIES/SPACE VEHICLES/TOOLS/TRANSPORTATION SYSTEMS/USES/VEHICLES/FLYWHEEL/SUPER FLYWHEEL/VEHICLES/TOOLS/POWER SUPPLIES/LOW EMISSION

82 TITLE: FEASIBILITY ANALYSIS OF THE TRANSMISSION FOR A FLYWHEEL HEAT ENGINE HYBRID PROPULSION SYSTEM
AUTHORS: MECHANICAL TECHNOLOGY, INC.
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

82 TITLE........: FEASIBILITY ANALYSIS OF THE TRANSMISSION FOR A FLYWHEEL (CONTD.)
ORGANIZATION: MECHANICAL TECHNOLOGY, INC.
ADDRESS......: LATHAM, N.Y., (USA)
SOURCE.......: MTI-71TR76 APTD-1181
CONTRACT #....: EPA 68-04-0033
PUBL. DATE....: NOV 1971

CATEGORY.....: ENERGY CONVERSION
KEYWORDS.....: AUTOMOBILES / COMPUTER
CALCULATIONS/CONTROL/COST/DESIGN/FEASIBILITY
STUDIES/FLYWHEELS/HEAT ENGINES/HYBRID SYSTEMS/MECHANICAL
TRANSMISSIONS/PERFORMANCE/PROPULSION/SAFETY/SIMULATION/

83 TITLE........: PROCEEDINGS SECOND INTERNATIONAL ELECTRIC VEHICLE SYMPOSIUM
ORGANIZATION: ELECTRIC VEHICLE COUNCIL
ADDRESS......: NEW YORK
PUBL. DATE....: NOV 08 1971
TYPE..........: CONF. PROCEEDINGS
PUBLISHER.....: ELECTRIC VEHICLE COUNCIL
CONFERENCE....: SECOND INTERNATIONAL ELECTRIC VEHICLE SYMPOSIUM
LOCATION.....: ATLANTIC CITY, N.J.
DATE..........: 8-10 NOV., 1971

KEYWORDS.....: AIR POLLUTION/ AUTOMOBILES/ ELECTRIC BATTERIES/ ELECTRIC-
POWERED VEHICLES/ FLYWHEELS/ HYBRID ELECTRIC-POWERED
VEHICLES/ MEETINGS/ NEW JERSEY/ RESEARCH PROGRAMS/
SEMICONDUCTOR MATERIALS/ TRAINS

84 TITLE........: ELECTRIC ROAD VEHICLE
AUTHORS.......: CALVERT, W.L.
SOURCE.......: (DEC. 26, 1967)=(- FILED DATE DEC 23, 1967)
PUBL. DATE....: NOV 24 1971
TYPE..........: PATENT
ASSIGNED......: UNION CARBIDE CORP.

KEYWORDS.....: FLYWHEELS/HYBRID/BATTERIES/ELECTRIC GENERATORS/ENERGY
STORAGE/ VEHICLES

25
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

85 TITLE........: LIFT FOR THE AUTO: ENGINE—FLYWHEEL HYBRIDS
AUTHORS........: MCCAU LL, J.
PUBL. DATE......: DEC 1971

86 TITLE........: HYBRID PROPULSION SYSTEM TRANSMISSION EVALUATION, PHASE I, FINAL REPORT
AUTHORS........: CORDNER, M.A./GRIMM, D.H.
ORGANIZATION: SUNDBRAND AVIATION
ADDRESS........: ROCKFORD, I11. (USA)
SOURCE..........: APTD-1121 PB-210-057
CONTRACT #......: 66-04-0034
PUBL. DATE......: FEB 25 1972
CATEGORY........: ENERGY CONVERSION

87 TITLE........: FLYWHEEL DRIVE SYSTEMS STUDY. FINAL REPORT
ORGANIZATION: LOCKHEED MISSILES AND SPACE CO., SUNNYVALE, CALIF. (USA)
SOURCE..........: APTD-1182, PB-213342 9 LMSC-D846393
CONTRACT #......: 66-04-0048
PUBL. DATE......: JUL 31 1972
CATEGORY........: ENERGY CONVERSION
KEYWORDS........: AUTOMOBILES / DESIGN/ENERGY STORAGE/EXHAUST GASES/FEASIBILITY STUDIES/FLYWHEELS/HYBRID SYSTEMS/MECHANICAL TRANSMISSIONS/PROPULSION/SAFETY/USES/
II FLYWHEELS IN VEHICLES

88 TITLE........: INERTIAL ENERGY STORAGE APPARATUS AND SYSTEM FOR UTILIZING THE SAME
AUTHORS........: POST, R. F. / POST, S. F.
PUBL. DATE......: AUG 08 1972
TYPE............: PATENT
KEYWORDS........: FLYWHEELS/VEHICLES/FLYWHEEL DESIGN

89 TITLE........: APPLICATION OF KINETIC ENERGY PROPULSION TO MASS TRANSPORTATION
AUTHORS........: LAWSON, L. J.
ORGANIZATION: LOCKHEED MISSILES AND SPACE CO.
SOURCE.........: SAE PAPER 720681
PUBL. DATE......: AUG 21 1972
PUBLISHER......: SAE, NEW YORK
CONFERENCE......: SOCIETY OF AUTOMOTIVE ENGINEERS, NATIONAL WEST COAST MEETING
LOCATION.......: SAN FRANCISCO, CA.
DATE............: 21-24 AUG 1972
KEYWORDS........: FLYWHEELS/VEHICLES ENVIRONMENT/SAN FRANCISCO BUS

90 TITLE........: TWO NEW WEAPONS AGAINST AUTOMOTIVE AIR POLLUTION: THE HYDROSTATIC DRIVE AND THE FLYWHEEL-ELECTRIC LDV.
AUTHORS..........: WHITLAW, R. L.
ORGANIZATION: VA. POLYTECHNIC INST. AND STATE UNIV., BLACKSBURG
SOURCE..........: ASME PAPER N 72-WA/APC-5
PUBL. DATE......: NOV 26 1972
DATE.............: NOV. 26-30, 1972

91 TITLE........: HYBRID ELECTRIC PROPULSION UTILIZING RECONNECTIBLE MOTOR WINDINGS IN WHEELS
AUTHORS..........: REIMERS, E.
II FLYWHEELS IN VEHICLES

91 TITLE.......: HYBRID ELECTRIC PROPULSION UTILIZING RECONNECTIBLE MOTOR (CONT'D.)
SOURCE.......: 8TH INTERSOC. ENERGY CONVERSION ENG. Conf., Paper 739116
PUBL. DATE...: 1973
TYPE.........: CONFERENCE PAPER

KEYWORDS.....: FLYWHEELS/ENERGY STORAGE/VEHICLES/FOUR-WHEEL
               DRIVE/HYBRID/ECONOMICS

92 TITLE.......: ELECTRIC VEHICLE HYBRID POWER TRAIN
AUTHORS.......: KUGLER, G. C.
ORGANIZATION: ESB, INC.
SOURCE.......: INTERNATIONAL AUTOMOTIVE ENGINEERING CONGRESS, DETROIT,
               MICH. PAPER 730254
PUBL. DATE...: JAN 08 1973
TYPE.........: CONF. PAPER
PUBLISHER.....: SOCIETY OF AUTOMOTIVE ENGINEERS, INC.
CONFERENCE...: INTERNATIONAL AUTOMOTIVE ENGINEERING CONGRESS, DETROIT,
               MICH.
LOCATION.....: NEW YORK
DATE.........: 8-12 JAN 1973

KEYWORDS.....: FLYWHEELS/HYBRID/ELECTRIC MOTORS/ENERGY
               STORAGE/REGENERATIVE BRAKING/VEHICLES

93 TITLE.......: FLYWHEEL-ELECTRIC SYSTEM FOR LOCAL-DUTY VEHICLES
AUTHORS.......: AUTOMOTIVE ENG.

PUBL. DATE...: FEB 1973

94 TITLE.......: IS THERE A FLYWHEEL IN YOUR FUTURE
AUTHORS.......: LAWSON, L. J.
ORGANIZATION: LOCKHEED MISSILES AND SPACE CO.

SOURCE.......: SAE SPEC. PUBL. SP-379, MAR 1973, PAP 730621, P 48
PUBL. DATE...: MAR 1973
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

94 TITLE ........: IS THERE A FLYWHEEL IN YOUR FUTURE (CONTD.)
KEYWORDS ....: FLYWHEELS/HYBRID/VEHICLES/ENERGY STORAGE/HEAT ENGINE/LOW POLLUTION

95 TITLE ........: APPLICATION OF TWO-PHASE DC CHOPPER MOTOR DRIVE
AUTHORS .......: REIMERS, E.

SOURCE .......: IEEE TRANS. IND. APPLICATIONS 9, 285 (MAY 1973)
PUBL. DATE ....: MAY 1973

KEYWORDS ....: FLYWHEELS/VEHICLES/HYBRID DRIVE/DC CHOPPER MOTOR

96 TITLE ........: INERTIAL ENERGY STORAGE APPARATUS
AUTHORS .......: POST, S. F.

PUBL. DATE ....: JUN 26 1973
TYPE ........: PATENT

KEYWORDS ....: FLYWHEELS/VEHICLES/FLYWHEEL DESIGN

97 TITLE ........: HYBRID CAR: PART-TIME ENGINE + PART-TIME FLYWHEEL = FULL TIME TRANSPORTATION
AUTHORS .......: LINDSLEY, E. F.

SOURCE .......: POPULAR SCIENCE, AUG. 1973, P. 68.
PUBL. DATE ....: AUG 1973
TYPE ........: PERIODICAL

KEYWORDS ....: FLYWHEELS/FLYWHEEL TRANSAXLE/VEHICLES/REGENERATIVE BRAKING/ENERGY STORAGE
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

98 TITLE........: KINETIC ENERGY STORAGE: A 'NEW' PROPULSION ALTERNATIVE FOR MASS TRANSPORTATION
AUTHORS........: LAWSON, L. J.
SOURCE.........: PRESENTED AT ASME INTERSOCIETY CONFERENCE ON TRANSPORTATION
PUBL. DATE......: SEP 1973
TYPE...........: PRESENTED PAPER

99 TITLE........: STORED ENERGY IN A SPINNING DISK COULD ALLEVIATE THE ENERGY CRISIS
AUTHORS........: PRODUCT ENGINEERING
SOURCE.........: PRODUCT ENG. 44, 27 (OCT. 1973)
PUBL. DATE......: OCT 1973
KEYWORDS......: FLYWHEELS/ENERGY/CONSERVATION/VEHICLES

100 TITLE........: FLYWHEEL ENERGY PROPULSION AND THE ELECTRIC VEHICLE
AUTHORS........: WEBER, R. / MENKES, S.
ORGANIZATION: CITY COLLEGE OF NEW YORK, DEPT. OF MECHANICAL ENGINEERING
PUBL. DATE......: 1974
TYPE...........: REPORT
KEYWORDS......: FLYWHEELS/VEHICLES/HYBRID VEHICLES/MAGNETIC BEARINGS

101 TITLE........: ENERGY CONSERVATION FACTORS FOR A HIGH-EFFICIENCY ELECTRIC-DRIVE AUTOMOBILE
AUTHORS........: POST, R.F.
ADDRESS........: WALNUT CREEK, CA.
SOURCE.........: SPEECH
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

101 TITLE........: ENERGY CONSERVATION FACTORS FOR A HIGH-EFFICIENCY ELECTRIC-- (CONTD.)
PUBL. DATE........: 1974
TYPE............: SPEECH OR PRESENTATION
KEYWORDS........: FLYWHEELS/HYBRID VEHICLES/ENERGY STORAGE

102 TITLE........: EMISSION CHARACTERISTICS OF A PRIME MOVER FOR HYBRID VEHICLE USE
AUTHORS........: ALLSUP, J.R./FLEMING, R.D.
ORGANIZATION: BUREAU OF MINES, BARTLESVILLE ENERGY RESEARCH CENTER
ADDRESS........: BARTLESVILLE, OKLA. (USA)
SOURCE........: BM-RI--7988
PUBL. DATE......: 1974
CATEGORY.........: ENERGY CONVERSION ENVIRONMENTAL STUDIES
KEYWORDS.........: AUTOMOBILES / CARBON MONOXIDE/CATALYTIC CONVERTERS/DYNAMOMETERS/EXHAUST GASES/FLYWHEELS/FUEL SYSTEMS/HYBRID ELECTRIC-POWERED VEHICLES/HYBRID SYSTEMS/HYDROCARBONS/NITROGEN OXIDES/SPARK IGNITION ENGINES/

103 TITLE........: SAFETY REVIEW OF THE KINETIC ENERGY WHEEL (KEW) SYSTEM FOR BUS APPLICATION
AUTHORS..........: NATIONAL ACADEMY OF SCIENCES
ORGANIZATION: NATIONAL ACADEMY OF SCIENCES
ADDRESS........: WASHINGTON, DC
PUBL. DATE.......: 1974
KEYWORDS.........: BUSES / ELECTRIC-POWERED VEHICLES/FLYWHEELS/HAZARDS/INSPECTION/MATERIALS/NONDESTRUCTIVE TESTING/SAFETY / SAFETY ENGINEERING/STRESS ANALYSIS/

104 TITLE........: SYNTHESIS OF THE BELT OF A DISCRETE BELT VARIATOR
AUTHORS........: GULIA, N. V. / YUDOVSKII, I. D.
ORGANIZATION: KURSK POLYTECH. INST., USSR
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

104 TITLE........: SYNTHESIS OF THE BELT OF A DISCRETE BELT VARIATOR (CONTD.)
SOURCE........: IZV. VYSSH. UCHEBN. ZAVED., MASHINOESTR. 9, 1974.
PUBL. DATE....: 1974
TYPE..........: JOURNAL ART.

KEYWORDS.....: ACCELERATION/ AUTOMOBILES/ DESIGN/ ENERGY STORAGE/
               FLYWHEELS/ MACHINE PARTS

105 TITLE........: GYROSCOPIC EFFECT OF FLYWHEELS IN MACHINES
AUTHORS.......: GULIA, N. V. ET AL

SOURCE.......: RUSS. ENG. J. (ENGL. TRANS.) 54, 7, 1974 RUSS. ENG. J.
               (ENGL. TRANS.) 54, 7, 41-43 1974
PUBL. DATE....: 1974
TYPE..........: JOURNAL TRANSLATION

KEYWORDS.....: ANGULAR VELOCITY/ AUTOMOBILES/ ENERGY STORAGE/ FLYWHEELS/
               MECHANICS/ ROTATION/GYROSCOPIC EFFECT/INERTIA
               STORAGE/ANGULAR VELOCITY/ VEHICLES/CALCULATIONS

106 TITLE........: BATTERY POWERED VEHICLE DRIVE
AUTHORS.......: DEANE, C. T.

SOURCE.......: U.S. PATENT 3,874,472
PUBL. DATE....: JAN 25 1974
TYPE..........: PATENT
ASSIGNED......: WEST VIRGINIA HIGH BIRD CORP., ST. ALBANS, W.VA.

KEYWORDS.....: AUTOMOBILES/ CONTROL SYSTEMS/ DESIGN/ ELECTRIC BATTERIES/
               ELECTRIC GENERATORS/ ELECTRIC MOTORS/ ELECTRIC-POWERED
               VEHICLES/ FLYWHEELS/ HYBRID SYSTEMS/ MECHANICAL
               TRANSMISSIONS VEHICLES/HYBRID/FLYWHEELS

107 TITLE........: KINETIC ENERGY SYSTEMS FOR MOVING PEOPLE
AUTHORS.......: BAXTER, J. W. / LAWSON, L. J.

SOURCE.......: AUTOMOTIVE ENGINEERING CONGRESS, DETROIT, MICH., FEB. 1974,
               PAPER NO. 740231.
II FLYWHEELS IN VEHICLES

107 TITLE........: KINETIC ENERGY SYSTEMS FOR MOVING PEOPLE (CONTD.)
PUBL. DATE....: FEB 1974
TYPE..........: PAPER PRESENTED AT MEETING

KEYWORDS.....: FLYWHEELS/VEHICLES/TROLLEY BUS/MASS TRANSIT

108 TITLE........: FLYWHEEL BRAKES STORE NEW TRAIN'S ENERGY FOR ELECTRICITY-SAVING STARTS; NEW YORK'S LATEST SUBWAY CARS
AUTHORS.......: ARMAGNAC, A. P.

SOURCE.......: POP. SCI. 204, 70
PUBL. DATE....: FEB 1974

KEYWORDS.....: REGENERATIVE BRAKING/FLYWHEELS/VEHICLES/MASS TRANSPORTATION

109 TITLE........: A FLYWHEEL IN YOUR FUTURE
AUTHORS.......: NEWSWEEK

SOURCE.......: NEWSWEEK, FEB. 11, 1974, P. 98.
PUBL. DATE....: FEB 11 1974

KEYWORDS.....: FLYWHEELS/VEHICLES/FLYWHEEL DESIGN/REGENERATIVE BRAKING/ UTILITIES

110 TITLE........: HYBRID DRIVE WITH FLYWHEEL COMPONENT FOR ECONOMIC AND DYNAMIC OPERATION
AUTHORS.......: HELLING, J. / SCHRECK, H. / GIERA, B.
ORGANIZATION: TECH. HOCHSCH., AACHEN, GER.

SOURCE.......: PROC., 3RD INT. ELECTR. VEH. SYMP. AND EXPO. PAPER 7453
PUBL. DATE....: FEB 19 1974

LOCATION.....: WASHINGTON, D.C.
DATE..........: FEB. 19-21, 1974

KEYWORDS.....: FLYWHEELS/HYBRID/ENERGY STORAGE/ VEHICLES/INTERNAL COMBUSTION ENGINE
II FLYWHEELS IN VEHICLES

111 TITLE........: ELECTRICAL PROPULSION SYSTEMS FOR ROAD VEHICLES. STATE OF THE ART AND PRESENT-DAY PROBLEMS
AUTHORS.......: BADER, C. /PLUST, H. G.
ORGANIZATION: DEUTSCHE AUTOMobilGESellschaft mbH
ADDRESS.......: ESSLINGEN, GERMANY
SOURCE.......: PROCEEDINGS OF THE THIRD SYMPOSIUM AND EXPOSITION OF THE INSTITUTE OF ELECTRICAL VEHICLES INTERNATIONAL ELECTRICAL VEHICLE SYMPOSIUM AND EXPOSITION PROCEEDINGS, VOLUME 2, PAPER 7478
PUBL. DATE....: FEB 19 1974
TYPE..........: PROCEEDINGS OF CONF.
CONFERENCE....: 3RD INSTITUTE OF ELECTRICAL VEHICLES SYMPOSIUM AND EXPOSITION 3RD INTERNATIONAL INSTITUTE OF ELECTRICAL VEHICLE SYMPOSIUM AND EXPOSITION
LOCATION.....: WASHINGTON, D.C.
DATE..........: 19 FEB., 1974

112 TITLE........: METALS AND COMPOSITES IN SUPERFLYWHEEL ENERGY STORAGE SYSTEMS
AUTHORS.......: RABENHORST, D. W.
ORGANIZATION: JOHNS HOPKINS UNIV.
ADDRESS.......: SILVER SPRING, MD
SOURCE.......: PROCEEDINGS OF THE 14 ANNUAL ASME SYMPOSIUM SAMPE Q., 6, 2, P. 23.
PUBL. DATE....: FEB 28 1974
PUBLISHER....: AMERICAN SOCIETY OF MECHANICAL ENGINEERS, NEW MEXICO SECTION
CONFERENCE....: SYMPOSIUM ON ENGINEERING FOR THE MATERIALS ENERGY CHALLENGE
LOCATION.....: ALBUQUERQUE, NEW MEXICO, USA
DATE..........: 26 FEB 1974
KEYWORDS.....: COMPOSITE MATERIALS/DESIGN/ENERGY STORAGE/FLYWHEELS/MATERIALS/Mechanical properties/METALS/
I. FLYWHEELS IN VEHICLES

113 TITLE........: CURRENT STATUS OF ALTERNATIVE AUTOMOTIVE POWER SYSTEMS AND FUELS
AUTHORS.......: AEROSPACE CORP.
SOURCE.......: VOL. IV, ELECTRIC AND HYBRID POWER SYSTEMS, ATR-74(7325)-1
PUBL. DATE...: JUL 1974
TYPE.........: REPORT
KEYWORDS.....: FLYWHEELS/VEHICLES/VEHICLE POWER/HYBRID

114 TITLE........: CURRENT STATUS OF ALTERNATIVE AUTOMOTIVE POWER SYSTEMS AND FUELS.
SUBTITLE.....: VOLUME IV.ELECTRIC AND HYBRID POWER SYSTEMS
AUTHORS......: LAPIDESE,D.E./HINTON,M.G./MELTZER,J./IURA,T./DYKEMA,O.
/FORREST,L./HAGEN,K./KETTLER,J./LAFRANCE,R./SMALLEY,W.
ORGANIZATION: AEROSPACE CORP.
ADDRESS......: EL SEGUNDO, CALIF. (USA)
SOURCE.......: EPA--460 3-74-013-D(VOL.4)
CONTRACT #...: 68-01-0417
PUBL. DATE...: JUL 1974
CATEGORY.....: ENERGY CONVERSION

115 TITLE........: CURRENT STATUS OF ALTERNATIVE AUTOMOTIVE POWER SYSTEMS AND FUELS.
SUBTITLE.....: VOLUME I. EXECUTIVE SUMMARY
AUTHORS......: LAPIDESE,D.E./HINTON,M.G./MELTZER,J./IURA,T.
ORGANIZATION: AEROSPACE CORP.
ADDRESS......: EL SEGUNDO, CALIF. (USA)
SOURCE.......: EPA--460 3-74-013-A(VOL.1)
CONTRACT #...: 68-01-0417
PUBL. DATE...: JUL 1974
115 TITLE........: CURRENT STATUS OF ALTERNATIVE AUTOMOTIVE POWER SYSTEMS AND (CONT'D.)
CATEGORY......: ENERGY CONVERSION

KEYWORDS.....: AMMONIA / AUTOMOBILES / AUTOMOTIVE FUELS / COMPARATIVE
 EVALUATIONS / DIESEL ENGINES/ELECTRIC BATTERIES/ ELECTRIC-
POWERED VEHICLES / ENGINES
/ETHANOL/FLYWHEELS/GASOLINE/HYBRID ELECTRIC-POWERED
VEHICLES/HYDRAZINE/HYDROGEN FUELS / METHANE / METHANOL
/MIXTURES/NATURAL GAS/PROPANE/PROPULSION/RANKINE CYCLE
 ENGINES/STIRLING ENGINES/STRATIFIED CHARGE
 ENGINES/SYNTHETIC FUELS/SYNTHETIC PETROLEUM/WANKEL ENGINES/

116 TITLE........: ATA RAIL TRANSIT CONFERENCE. CAR EQUIPMENT SESSIONS.
AUTHORS.......: LAWSON, L. J. / ET AL.
ORGANIZATION: AMER. TRANSIT ASSN.
ADDRESS.......: WASHINGTON, D. C.

SOURCE.......: PAPERS PRESENTED AT ATA RAIL TRANSIT CONF. SAN FRANCISCO,
 CA., APR. 14-16, 1974 REPORT NO. ATA/RT-74/1
PUBL. DATE....: AUG 1974

KEYWORDS.....: FLYWHEELS/URBAN TRANSPORT/SAN FRANCISCO MUNI/BUSES/D.C.
 MOTORS/ BATTERIES/ TRAINS

117 TITLE........: HYBRID AUTOMOTIVE ENGINE WITH KINETIC ENERGY STORAGE
AUTHORS.......: SCHRECK, H./TORRES, F.
ORGANIZATION: TECHNISCHE HOCHSCHULE
ADDRESS.......: AACHEN GERMANY

SOURCE.......: CONF-741151--- (GERMAN)
PUBL. DATE....: SEP 1974

CONFERENCE....: SECOND SYMPOSIUM ON LOW POLLUTION POWER SYSTEMS DEVELOPMENT
LOCATION.....: DUSSELDORF,F.R.GERMANY
DATE..........: 4 NOV 1974

KEYWORDS.....: AUTOMOBILES/FLYWHEELS/FUEL CONSUMPTION/HYBRID
 SYSTEMS/PERFORMANCE TESTING/SPARK IGNITION ENGINES/
II FLYWHEELS IN VEHICLES

118 TITLE........: STATUS REVIEW OF HYBRID HEAT ENGINE BATTERY AND HEAT ENGINE FLYWHEEL VEHICLES
AUTHORS........: LAPEDES, D.E./MELTZER, J.
ORGANIZATION: AEROSPACE CORP.
ADDRESS........: EL SEGUNDO, CA
SOURCE..........: CONF-741151
PUBL. DATE.....: SEP 1974
CONFERENCE......: SECOND SYMPOSIUM ON LOW POLLUTION POWER SYSTEMS DEVELOPMENT
LOCATION........: DUSSELDORF, F.R. GERMANY
DATE...........: 4 NOV 1974

119 TITLE........: ALTERNATIVE PRIME MOTORS FOR FUTURE AUTOMOBILES
SUBTITLE........: INCLUDES RESULTS OF TESTS ON VARIOUS VEHICLES MADE BY THE U. S. ENVIRONMENTAL PROTECTION AGENCY
AUTHORS..........: STERNLICHT, B./THUR, G.M.
ORGANIZATION: MECHANICAL TECH., INC.
ADDRESS.........: LATHAM, NY
SOURCE..........: CONF-741151
PUBL. DATE......: SEP 1974
CONFERENCE......: SECOND SYMPOSIUM ON LOW POLLUTION POWER SYSTEMS DEVELOPMENT
LOCATION........: DUSSELDORF, F.R. GERMANY
DATE............: 4 NOV 1974
120  TITLE.......: KINETIC ENERGY STORAGE FOR MASS TRANSPORTATION
    AUTHORS.......: LAWSON, L. J.
    ORGANIZATION: LOCKHEED MISSILES AND SPACE CO.
    ADDRESS.......: SUNNYVALE, CA
    SOURCE.......: CONF-740641-1
    PUBL. DATE.: SEP 1974
    PUBLISHER.: MECH.ENG. 96 9
    CONFERENCE.: CONFERENCE ON ADVANCED ENERGY SYSTEMS
    LOCATION.: DENVER, COLORADO, USA
    DATE.: 20 JUN 1974
    CATEGORY.: ELECTRONICS AND ELECTRICAL ENGINEERING ENERGY SOURCES
                ENGINEERING
    KEYWORDS.: AIR POLLUTION / AUTOMOBILES / EFFICIENCY / ELECTRIC
                GENERATORS/ENERGY SHORTAGES/ENERGY SOURCES/ENERGY STORAGE /
                ENVIRONMENTAL EFFECTS/FLYWHEELS/HEAT ENGINES/KINETIC
                ENERGY/MOTORS/NOISE/TRANSPORTATION SYSTEMS/URBAN AREAS/

121  TITLE.......: IMPROVED REGENERATIVE BRAKING SYSTEM
    AUTHORS.......: HYNE, A. / ZUCKER, O.
    SOURCE.......: DISCLOSURE, INVENTION CASE NO. IL-5925, 1974.
    PUBL. DATE.: SEP 24 1974
    TYPE.: INVENTION DISCLOSURE

122  TITLE.......: THE KINETIC ENERGY WHEEL
    SUBTITLE.: A MEANS OF REDUCING POLLUTION WHILE CONSERVING RESOURCES
    AUTHORS.......: LAWSON, L. J.
    ORGANIZATION: INSTITUTE OF ENVIRONMENTAL SCIENCES
    SOURCE.: 21ST ANNUAL TECHNICAL MEETING OF THE INSTITUTE OF
     ENVIRONMENTAL SCIENCES. VOLS. I AND II, 130
    PUBL. DATE.: 1975
    CONFERENCE.: 21. ANNUAL TECHNICAL MEETING OF THE INSTITUTE OF
     ENVIRONMENTAL SCIENCES
    LOCATION.: ANAHEIM, CA
    DATE.: 14 APR 1975
122 TITLE........ : THE KINETIC ENERGY WHEEL (CONT'D.)
KEYWORDS..... : ELECTRIC POWER/ENERGY CONSERVATION/ENERGY
CONSUMPTION/ENERGY STORAGE/ENVIRONMENTAL
EFFECTS/FLYWHEELS/KINETIC ENERGY /VEHICLES/ ENERGY
STORAGE/ENVIRONMENT VEHICLES/TRANSPORTATION/FLYWHEELS

123 TITLE........ : NEW YORK SUBWAY TRIES OUT FLYWHEEL ENERGY STORAGE
AUTHORS...... : RAILWAY GAZETTE INTERNATIONAL
SOURCE....... : (JAN 1975)=(23-24)
PUBL. DATE... : JAN 1975
KEYWORDS..... : MASS
TRANSPORTATION/VEHICLES/FLYWHEELS/CHOPPERS/REGENERATIVE
BRAKING/HYBRID/ENERGY STORAGE

124 TITLE........ : AUTOMOBILE AIR POLLUTION, PART 4. NEW AUTOMOTIVE ENGINES (A
BIBLIOGRAPHY WITH ABSTRACTS). PERIOD COVERED: 1970-DEC.
1974.
AUTHORS...... : LEHMANN, E. J.
ORGANIZATION: NTIS
ADDRESS..... : SPRINGFIELD, VA.
SOURCE....... : NTIS/PS-75/312
PUBL. DATE... : FEB 1975
PUBLISHER.... : NTIS
KEYWORDS..... : AIR POLLUTION/ AUTOMOBILES/ BIBLIOGRAPHIES/ DESIGN/
ENGINES/ EXHAUST GASES/ FLYWHEELS/ GAS TURBINES/ HYBRID
ELECTRIC-POWERED VEHICLES/ HYBRID SYSTEMS/ RANKINE CYCLE
ENGINES/ ROTARY ENGINES/ STRATIFIED CHARGE ENGINES

125 TITLE........ : DYNAMIC BRAKING
AUTHORS...... : KALRA, P.
ORGANIZATION: BECHTEL, INC.
ADDRESS..... : SAN FRANCISCO, CA.
SOURCE....... : IEEE SPECTRUM, V 12, NO. 5, MAY 1975, P. 63
EEDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

125 TITLE........: DYNAMIC BRAKING (CONTD.)
PUBL. DATE....: MAY 05 1975

KEYWORDS.....: DYNAMIC BRAKING /FLYWHEELS/ENERGY STORAGE/THYRISTOR INVERTOR- RECUPERATIVE/RAPID TRANSIT/RAIL TRANSIT

126 TITLE........: VEHICLE POWER SYSTEM FOR LIMITED VEHICLE MOVEMENT WITHOUT USE OF FUEL
AUTHORS.......: STROHLEIN, J.N.

SOURCE.......: US PATENT 3,882,950 FILED DATE 11 JUL 1972
PUBL. DATE....: MAY 13 1975
TYPE..........: PATENT

KEYWORDS.....: FLYWHEEL/VEHICLE/HYBRID/TRANSFERRECE OF ENERGY/AUTOMATIC RECHARGE

127 TITLE........: THREE MILE ISLAND NUCLEAR STATION,UNIT 2,LICENSE APPLICATION,FSAR,AMENDMENT 27
SUBTITLE.....: RESPONSES TO FIRST ROUND NRC QUESTIONS PERTAINING TO PUMP FLYWHEEL INTEGRITY

AUTHORS.......: METROPOLITAN EDISON CO.

ORGANIZATION: METROPOLITAN EDISON CO.
ADDRESS.......: READING, PA. (USA)
PUBL. DATE....: MAY 16 1975
TYPE..........: DOCKET-50320---145

KEYWORDS.....: FLYWHEELS/PUMPS/REACTOR COOLING SYSTEMS/SPECIFICATIONS/THREE MILE ISLAND-2 REACTOR/

128 TITLE........: INCREASED FUEL ECONOMY IN TRANSPORTATION SYSTEMS BY USE OF ENERGY MANAGEMENT

AUTHORS.......: BEACHLEY, N. H. / FRANK, A. A.

ORGANIZATION: DEPT. OF TRANSPORTATION
ADDRESS.......: CAMBRIDGE, MASS.
### II FLYWHEELS IN VEHICLES

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<td>INCREASED FUEL ECONOMY IN TRANSPORTATION SYSTEMS BY USE OF (CONTD.)</td>
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<td>DOT-TSC-OST-75-31. ALSO: CONF-750123</td>
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<td>129</td>
<td>HYBRID POWER SYSTEM</td>
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<td>Authors</td>
<td>SUGIYAMA, H./ HIROTA, T./KAKEI, J./ KABASAWA, Y.</td>
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<td>US PATENT 3,886,810 PRIORITY DATE 21 SEP 1973, JAPAN</td>
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<td>130</td>
<td>FLYWHEELS - FLYWHEEL IN AUTO TO REPLACE GASOLINE</td>
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<td>131</td>
<td>HYBRID VEHICLES</td>
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<td>Authors</td>
<td>VIVIAN, H. C.</td>
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ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

II FLYWHEELS IN VEHICLES

131 TITLE.........: HYBRID VEHICLES (CONTD.)
TYPE.........: REPORT

KEYWORDS....: VEHICLES/HYBRID/ECONOMICS/WEIGHT/SAFETY/ELECTRIC-FLYWHEEL
              VEHICLES/ENERGY STORAGE

132 TITLE.........: IDEAS AND EXPERIMENTS IN MAGNETIC INTERFACING
AUTHORS.......: AALAND, K. / LANE, J. E.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA. 94550
SOURCE.......: UCRL-77486. ALSO: CONF-751133-8
PUBL. DATE....: DEC 10 1975
TYPE.........: REPORT
PUBLISHER.....: LLL

CONFERENCE....: FLYWHEEL TECHNOLOGY SYMPOSIUM
LOCATION.....: BERKELEY, CA.
DATE.........: 10 NOV 1975

KEYWORDS....: AUTOMOBILES/ BENCH-SCALE EXPERIMENTS/ COMPOSITE MATERIALS/
              CONTROL SYSTEMS/ ELECTRIC GENERATORS/ ELECTRIC MOTORS/
              ENERGY STORAGE/ FIBERS/ FLYWHEELS/ LEVITATION/ MAGNETIC
              BEARINGS/ SIMULATION

133 TITLE.........: HYBRID DRIVE WITH KINETIC ENERGY STORE AS VEHICLE DRIVE
AUTHORS.......: SCHRECK, H. / TORRES, F.
ORGANIZATION: TECHNISCHE HOCHSCHULE AACHEN (F.R. GERMANY)
SOURCE.......: HYBRIDENTRIEB MIT KINETISCHEM ENERGIESPEICHER ALS
              FAHRZEUGANtrieB
PUBL. DATE....: FEB 1976
TYPE.........: TRANSLATION

KEYWORDS....: AUTOMOBILES/ FLYWHEELS/ FUEL CONSUMPTION/ FUNCTIONAL
              MODELS/ HYBRID SYSTEMS/ INTERNAL COMBUSTION ENGINES/
              PERFORMANCE TESTING/ REGENERATIVE BRAKING
II FLYWHEELS IN VEHICLES

134 TITLE........: BATTERY–FLYWHEEL HYBRID ELECTRIC POWER SYSTEM FOR NEAR–TERM APPLICATION, VOL. 1, SYSTEM DESCRIPTION.
AUTHORS........: DAVIS, D. D.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA. 94550
SOURCE........: UCID-17098-VOLUME-1
PUBL. DATE....: APR 15 1976

135 TITLE........: BATTERY–FLYWHEEL HYBRID ELECTRIC POWER SYSTEM FOR NEAR–TERM APPLICATION, VOL. 2, SYSTEM DESIGN.
AUTHORS........: DAVIS, D. D.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA. 94550
SOURCE........: UCID-17098-VOLUME-2
PUBL. DATE....: APR 15 1976

136 TITLE........: FLYWHEELS – PRACTICAL FLYWHEEL ENGINE: WILL FIBER GLASS BE THE ANSWER?
AUTHORS........: IL BUS W
SOURCE........: IL BUS W. P. 109 MAY 03, 1976
PUBL. DATE....: MAY 03 1976

137 TITLE........: FLYWHEELS: ENERGY-SAVING WAY TO GO
AUTHORS........: ENVIRONMENTAL SCIENCE AND TECHNOLOGY
SOURCE........: ENVIRONMENTAL SCIENCE AND TECHNOLOGY, VOL 10, JULY 1976, P. 636-639
PUBL. DATE....: JUL 1976
KEYWORDS......: FUNDING/STATE-OF-THE-ART/HYBRIDS/FLYWHEELS/COMPOSITES/REVIEW/ SOVIET FLYWHEELS/ACT-1 CARS/R-32 CARS
III FLYWHEELS IN UTILITIES

138 TITLE........: ENERGY STORING MASS AND METHOD FOR MAKING
AUTHORS........: CALL, B. J.

PUBL. DATE.....: SEP 1966
TYPE...........: PATENT

139 TITLE........: MOMENTUM EXCHANGE ACQUISITION SYSTEM, FINAL REPORT
AUTHORS........: FISCHER, WM. A.

SOURCE........: AD-813466, AFAPL TR-67-9
CONTRACT #.....: AF 33(615)-3243, PROJ. AF-3145, TASK 314502
PUBL. DATE.....: MAR 1967

140 TITLE........: FLYWHEEL STABILIZATION OF A RIGID BODY SUBJECTED TO
CONSTANTLY APPLIED PERTURBATIONS
AUTHORS........: DERGACHEVA, E. I.

SOURCE........: AUTOMATION AND REMOTE CONTROL, P 25, JAN 1968.
PUBL. DATE.....: JAN 1968

141 TITLE........: EMERGENCY PUMP SYSTEMS ARE BOOTSTRAPS TO POWER
AUTHORS........: PRODUCT ENG.

SOURCE........: PRODUCT ENG. 39, P 138, MAY 20, 1968
PUBL. DATE.....: MAY 20, 1968

142 TITLE........: FEASIBILITY OF FLYWHEEL HIGH-ENERGY STORAGE
AUTHORS........: SVENSSON, A. / WETHERBEE, A. E.
III FLYWHEELS IN UTILITIES

142 TITLE.......: FEASIBILITY OF FLYWHEEL HIGH-ENERGY STORAGE (CONTD.)
ORGANIZATION: PRATT AND WHITNEY AIRCRAFT
ADDRESS.......: EAST HARTFORD, CONN.
SOURCE.......: REPORT PWA-3676
PUBL. DATE...: APR 15 1969
TYPE.........: REPORT
KEYWORDS.....: FLYWHEELS/COMPOSITE MATERIALS/FLYWHEEL FABRICATION/
               FLYWHEELS-HIGH ENERGY

143 TITLE.......: FINAL DESIGN REPORT, PROTOTYPE GEARBOX FLYWHEEL (FLYBOX)
                  FOR STORED ENERGY ROTARY DRIVE SHIPBOARD CATAPULT
AUTHORS.......: NELLI, V. C.
ORGANIZATION: GENERAL ELECTRIC CO.
ADDRESS.......: LYNN, MASS.
SOURCE.......: REPORT NO. NAEC-ENG-7657, PREPARED FOR NAVAL AIR ENGINEER-
               ING CENTER, PHILADELPHIA, PA.
PUBL. DATE...: 1970
TYPE.........: REPORT
KEYWORDS.....: FLYWHEELS/FLYBOX/FLYWHEEL DESIGN/SHIPBOARD CATAPULT/ ENERGY
               STORAGE

144 TITLE.......: FIRST NATIONAL CITY BANK USES CONSTANT-POWER SYSTEM FOR
                  COMPUTERS
AUTHORS.......: ORTIZ, J. V.
ORGANIZATION: SYSKA AND HENNESSY, INC. ENGINEERS
ADDRESS.......: NEW YORK, N.Y.
SOURCE.......: ELECT. CONSTR. MAINT. 69, 1, JAN 1970 ELECTRICAL
               CONSTRUCTION AND MAINTENANCE 69, 1, 96-97
PUBL. DATE...: JAN 1970
TYPE.........: PERIODICAL
KEYWORDS.....: COMPUTERS/ DIESEL ENGINES/ ENERGY STORAGE/ FLYWHEELS/ POWER
               SUPPLIES/POWER FAILURE/FLYWHEELS/DIESEL ELECTRIC
               SETS/UTILITIES/CONSTANT POWER SYSTEM/ENERGY STORAGE
III FLYWHEELS IN UTILITIES

145 TITLE........: FLYWHEEL GENERATORS FOR INSTANT POWER
AUTHORS.......: ASHMOLE, P. H.
SOURCE.......: ELECTR. TIMES 157, 4, 45
PUBL. DATE....: JAN 22, 1970
TYPE..........: PERIODICAL
KEYWORDS.....: ALTERNATING CURRENT/ ELECTRIC GENERATORS/ ENERGY STORAGE/ FLYWHEELS/ GAS TURBINES/ TRANSIENTS

146 TITLE........: ACHIEVEMENTS AND PROSPECTS IN THE UTILIZATION OF KINETIC ENERGY
AUTHORS.......: GROSU, S. I.
SOURCE.......: IEEE TRANS. IND. AND GEN. APPLICATIONS 6, P 647, NOV 1970.
PUBL. DATE....: NOV 1970

147 TITLE........: POWER-SYSTEMS RESEARCH SHIFTS TO MEET SOCIAL GOALS
AUTHORS.......: CHEM. ENG.
SOURCE.......: CHEM. ENG. 77, P 48, NOV. 2, 1970.
PUBL. DATE....: NOV 02, 1970

148 TITLE........: OPERATING LARGE EXCAVATORS ON SMALL POWER SYSTEMS
AUTHORS.......: KILGORE, L. A./ WASHBURN, D. C.
SOURCE.......: ENG. AND MIN. J. 172, 131 (JUNE 1971)
PUBL. DATE....: JUN 1971
III FLYWHEELS IN UTILITIES

149 TITLE........: HYDRAULIC TRANSMISSION COUPLED STANDBY POWER UNIT
AUTHORS........: DYNAMICS CORP.
SOURCE.........: (FILED)=(FILED DATE)
PUBL. DATE.....: DEC 15 1971
TYPE...........: PATENT
ASSIGNED.......: DYNAMICS CORP.
KEYWORDS.......: FLYWHEELS/HYDRAULIC POWER/ENERGY STORAGE/STANDBY/HYBRID/
POWER SYSTEM

150 TITLE........: LOW PEAK TEMPERATURES AND HYDRODYNAMIC BEARINGS - KEY TO
LONG LIFE ORGANIC RANKINE CYCLE SYSTEMS
AUTHORS........: BORETZ, J. E.
SOURCE.........: 7TH, INTERSOC. ENERGY CONVERSION ENG. CONF., 1972.
PUBL. DATE.....: 1972
TYPE...........: PROCEEDINGS

151 TITLE........: FLYWHEEL ENERGY BUFFER
AUTHORS.........: JAKUBOWSKI,M.
ORGANIZATION: IBM SYSTEMS DEVELOPMENT DIVISION
ADDRESS........: ENDICOTT,NY
SOURCE.........: 7TH INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE
1972, SAN DIEGO, CA. PAPER 729170 P. 1141-1145
PUBL. DATE.....: SEP 1972
TYPE...........: CONFERENCE PAPER
CATEGORY........: ENERGY STORAGE
KEYWORDS........: FLYWHEELS/ENERGY STORAGE/UTILITIES/ECONOMICS

152 TITLE........: ACHIEVING HIGH ENERGY EFFICIENCY
AUTHORS.........: [INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE
III FLYWHEELS IN UTILITIES

152 TITLE........: ACHIEVING HIGH ENERGY EFFICIENCY (CONT'D.)
PUBL. DATE.....: 1973

153 TITLE........: SUPERFLYWHEEL
AUTHORS........: RABENHORST, D. W.
ORGANIZATION...: MARYLAND UNIV., COLLEGE PARK (USA), DEPT. OF MECHANICAL
                ENGINEERING
ADDRESS........: JOHN HOPKINS UNIV., APPLIED PHYS. LAB.
SOURCE........: CONF-730350--P1
PUBL. DATE.....: 1973
TYPE...........: PROCEEDINGS OF THE SOLAR HEATING AND COOLING FOR BUILDINGS
                WORKSHOP, WASHINGTON, DC, MARCH 21-23, 1973, PART 1, TECHNICAL
                SESSIONS, MARCH 21 AND 22
CONFERENCE.....: SOLAR HEATING AND COOLING FOR BUILDINGS WORKSHOP
LOCATION......: WASHINGTON, DISTRICT OF COLUMBIA, USA
DATE...........: 21 MAR 1973
KEYWORDS.......: ENERGY STORAGE/FLYWHEELS/ROTATION/SOLAR ENERGY
                 CONVERSION/STRESSES/

154 TITLE........: ENERGY STORAGE VIA FLYWHEELS
AUTHORS........: GILMAN, J. J./ HUCKE, E. E.
SOURCE........: CONF-730749--P2
PUBL. DATE.....: JUL 1973
TYPE...........: PRELIMINARY REPORTS, MEMORANDA AND TECHNICAL NOTES OF THE
                MATERIALS RESEARCH COUNCIL SUMMER CONFERENCE, LA JOLLA,
                CALIFORNIA, VOL. 11, PROCEEDINGS OF THE DISCUSSION GROUP ON
                SOLAR ENERGY CONVERSION
CONFERENCE.....: MATERIALS RESEARCH COUNCIL SUMMER CONFERENCE, LA JOLLA
LOCATION......: LA JOLLA, CALIFORNIA, USA
DATE...........: 5 JUL 1973
KEYWORDS.......: EFFICIENCY/ENERGY STORAGE/FEASIBILITY
                 STUDIES/FLYWHEELS/KINETIC ENERGY/PERFORMANCE/STRESSES/
III FLYWHEELS IN UTILITIES

155 TITLE........: NEW UNINTERRUPTIBLE POWER SYSTEM ALTERNATIVES USING HIGH CAPACITY KINETIC ENERGY WHEELS
AUTHORS........: LAWSON, L. J.
ORGANIZATION: LOCKHEED MISSILES AND SPACE CO.
ADDRESS........: SUNNYVALE, CA.
SOURCE.........: IEEE IND. APPL. SOC. ANNU. MEET., 8TH, CONF. REC. PAP.
PUBL. DATE.....: OCT 08 1973
LOCATION.......: MILWAUKEE, WIS.
DATE............: OCT 8-11, 1973
KEYWORDS.......: FLYWHEELS/ENERGY STORAGE/UNINTERRUPTIBLE POWER SYSTEMS/UTILITIES/NO-BREAK SET

156 TITLE........: INVESTIGATION OF THE HOMOPOLAR MOTOR-GENERATOR AS A POWER SUPPLY FOR CONTROLLED FUSION EXPERIMENTS
ORGANIZATION: UNIV. OF TEXAS
ADDRESS.........: AUSTIN, TEXAS
SOURCE..........: PROCEEDINGS OF THE FIFTH SYMPOSIUM ON ENGINEERING PROBLEMS OF FUSION RESEARCH, P. 447
PUBL. DATE......: NOV 06 1973
PUBLISHER......: INST. OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC. NEW YORK 1974
CONFERENCE.....: 5. SYMPOSIUM ON ENGINEERING PROBLEMS OF FUSION RESEARCH
LOCATION.......: PRINCETON, NEW JERSEY, USA
KEYWORDS.......: EFFICIENCY/ELECTRIC GENERATORS/ENERGY STORAGE/FLYWHEELS/POWER SUPPLIES/THERMONUCLEAR REACTORS/HOMOPOLAR MACHINE/ENERGY STORAGE/THERMONUCLEAR REACTORS

157 TITLE........: SUPERFLYWHEEL ENERGY STORAGE SYSTEM
AUTHORS.........: RABENHORST, D. W.
ORGANIZATION: APPLIED PHYSICS LAB., JOHNS HOPKINS UNIV.
ADDRESS.........: SILVER SPRING, MD.
SOURCE..........: NASA LEWIS RES. CENTER WIND ENERGY SYSTEMS
PUBL. DATE......: DEC 1973
III FLYWHEELS IN UTILITIES

157 TITLE........: SUPERFLYWHEEL ENERGY STORAGE SYSTEM (CONTD.)
KEYWORDS.......: FLYWHEELS/SUPER FLYWHEELS/STEEL FLYWHEEL/ENERGY
               STORAGE/SOLAR ENERGY/BATTERIES/WIND ENERGY/DESIGN/SAFETY

158 TITLE........: COMPUTER CONTROLLED 125 MVA POWER SUPPLY FACILITY FOR
NUCLEAR FUSION RESEARCH
AUTHORS........: MIYAHARA, A. / BANNAI, E. / KITANO, Y.
ADDRESS.......: JAPAN
SOURCE.........: TOSHIBA REV., INT. ED. 94, 1974, 7-13 (1974, 7-13)=(7-13)
PUBL. DATE....: 1974
KEYWORDS.......: COMPUTER CALCULATIONS/ CONTROL SYSTEMS/ FLYWHEELS/ POWER
               SUPPLIES/ THERMONUCLEAR REACTORS

159 TITLE........: INDEPENDENT ENERGY SYSTEMS FOR BETTER EFFICIENCY
SUBTITLE.......: ON-SITE POWER GENERATION
AUTHORS........: MARSHALL, O.W. / MORASH, R.T. / BARBER, R.J.
ORGANIZATION: ROSEL LABS.
ADDRESS.......: BRADENTON, FL
SOURCE.........: SEE CONF--740605--
PUBL. DATE....: 1974
TYPE..........: 9TH INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE
               PROCEEDINGS
PUBLISHER....: AMERICAN SOCIETY OF MECHANICAL ENGINEERS NEW YORK
CONFERENCE....: 9TH INTERSOCIETY ENERGY CONVERSION ENGINEERING CONFERENCE
LOCATION.....: SAN FRANCISCO, CALIFORNIA, USA
DATE..........: 26 AUG 1974
KEYWORDS......: AIR CONDITIONING / DIESEL ENGINES /
               ECONOMICS/EFFICIENCY/ELECTRIC GENERATORS/ELECTRIC
               POWER/ENERGY CONVERSION/ENERGY STORAGE / ENERGY SUPPLIES /
               FLYWHEELS / HEATING/HOUSSES/PLANNING/POWER PLANTS/SITE
               SELECTION/SOLAR ENERGY/TOTAL ENERGY SYSTEMS/USES/WASTE
               HEAT/WIND POWER/

160 TITLE........: STORAGE SYSTEMS FOR ENERGY PEAKING DEMANDS. FIFTEEN PAPERS--
SURVEY OF PRESENT AND PROSPECTIVE HEAT AND ENERGY STORAGE
SYSTEMS

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III FLYWHEELS IN UTILITIES

160 TITLE........: STORAGE SYSTEMS FOR ENERGY PEAKING DEMANDS. FIFTEEN PAPERS-- (CONTD.)
AUTHORS........: VDI
ORGANIZATION: VDI (VER. DTSCH. ING.)
ADDRESS......: BERLIN, GER.
SOURCE........: VDI BER. 223, 1974 (CONF. STUTGART, GERMANY)
PUBL. DATE...: 1974
PUBLISHER.....: VDI
KEYWORDS....: ELECTRIC BATTERIES/ ENERGY STORAGE/ FLYWHEELS/ GAS TURBINES/ HEAT STORAGE/ LIQUEFIED NATURAL GAS/ WOLLEN SALTS/ NUCLEAR POWER PLANTS/ OFF-PEAK ENERGY STORAGE/ PONDS/ REVIEWS/ STEAM/ SUPERCONDUCTING MAGNETS ENERGY STORAGE/LATENT HEAT/BATTERIES/ TURBINES/SUPERCONDUCTING MAGNETS

161 TITLE........: NEW MOMENTUM FOR NUCLEAR FUSION. IN THE MAX-PLANCK-INSTITUT IN MÜNCHEN, A NEW PHASE OF PLASMA RESEARCH HAS BEGUN
SUBTITLE......: FLYWHEELS FOR ENERGY STORAGE
AUTHORS........: BRUNS, K.
PUBL. DATE...: JAN 1974
PUBLISHER....: WELT (HAMBURG) 26 JAN 1974 16 (IN GERMAN)
KEYWORDS....: FUSION/FLYWHEELS/PLASMA/ENERGY STORAGE

162 TITLE........: MECHANICAL AND BATTERY-STORED ENERGY SYSTEMS FOR MEETING UNINTERRUPTIBLE AND BUFFERED ELECTRIC POWER NEEDS
AUTHORS........: COMEAU, G. E.
ORGANIZATION: BRINCO LTD.
ADDRESS......: MONTREAL, P.Q. CANADA
SOURCE........: IEEE TRANS. IND. APPL., 1A-10, 2, 209.
PUBL. DATE....: MAR 1974
TYPE.........: JOURNAL
PUBLISHER.....: IEEE
KEYWORDS....: COMPARATIVE EVALUATIONS/ ELECTRIC BATTERIES/ ENERGY STORAGE/ FLYWHEELS
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MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

163 TITLE........: ULTRAHIGH TEMPERATURE SUBTITLE.......: TECHNOLOGY OF CONTROLLED THERMONUCLEAR FUSION EXPERIMENTS AND THE ENGINEERING ASPECTS OF FUSION REACTORS
AUTHORS.......: RYLANDER, H.G./WOODSON, H.H./BECKER, E.B./ROWBERG, R.

164 TITLE........: ENERGY CRISIS SUBTITLE.......: A POWER CRISIS. NEW TECHNOLOGIES REQUIRED TO SATISFY THE INCREASING PEAK POWER DEMAND IN EUROPE IN THE 1980'S.
AUTHORS.......: BECCU, K. D.
ORGANIZATION: BATTETLE RESEARCH CENTRE ADDRESS.......: GENEVA, SW.

165 TITLE........: ENERGY STORAGE. (I): USING ELECTRICITY MORE EFFICIENTLY
AUTHORS.......: ROBINSON, A.L.
SOURCE.......: SCIENCE 184, NO. 4138, P. 785.
PUBL. DATE...: MAY 17 1974 PUBLISHER....: SCIENCE 184 4138
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

165 TITLE........: ENERGY STORAGE. (I): USING ELECTRICITY MORE EFFICIENTLY (CONTD.)
KEYWORDS.......: CHEMICAL REACTIONS/CHEMICAL REACTIONS/COMPRESSED
                AIR/COMPRESSION/ECONOMICS/EFFICIENCY/ELECTRIC
                BATTERIES/ELECTRICITY / ENERGY CONVERSION / ENERGY STORAGE
                / ENVIRONMENTAL EFFECTS / FLYWHEELS/GAS
                TURBINES/HEATING/HIGH TEMPERATURE / HYDROELECTRIC POWER
                PLANTS / MAGNETISM / MECHANICS / NUCLEAR POWER/PUMPED
                STORAGE/STEAM TURBINES/STORED ENERGY/WATER RESERVOIRS/

166 TITLE........: ENERGY STORAGE. (II): DEVELOPING ADVANCED TECHNOLOGIES
AUTHORS........: ROBINSON, A.L.
SOURCE.........: SCIENCE 184, NO. 4139, P. 884.
PUBL. DATE.....: MAY 24 1974
PUBLISHER......: SCIENCE 184 4139
KEYWORDS.......: ELECTRIC BATTERIES / ELECTROMAGNETS / ENERGY
                STORAGE/FLYWHEELS/NUCLEAR HEAT/HYDROGEN/INVESTMENT / MAGNETIC
                FIELDS/SOLAR ENERGY/STORED
                ENERGY/SUPERCONDUCTIVITY/SUPERCONDUCTORS/TRANSPORT/

167 TITLE........: NO-BREAK SETS
AUTHORS........: MOODY, R. L.
ORGANIZATION: DALE ELECTRIC OF GREAT BRITAIN, LTD
ADDRESS.......: LONDON, ENG.
SOURCE........: STANDBY PLANT AND EMERGENCY EQUIPMENT CONFERENCE, ELECTR.
SUPERV. 54,4, JUN 1974
PUBL. DATE....: JUN 1974
TYPE..........: JOURNAL
KEYWORDS.......: ENERGY STORAGE/SHORT-TERM FAILURE/LONG-TERM
                FAILURE/FLYWHEEL/ BATTERIES/HYBRID/COMPARISONS

168 TITLE........: ENERGY STORAGE FOR THE ELECTRIC POWER INDUSTRY
AUTHORS........: KELLER, W.E.
ORGANIZATION: LOS ALAMOS SCIENTIFIC LAB.
ADDRESS.......: LOS ALAMOS, N.MEX. (USA)
III FLYWHEELS IN UTILITIES

168 TITLE........: ENERGY STORAGE FOR THE ELECTRIC POWER INDUSTRY (CONT'D.)
SOURCE.........: CONF-740641-1 CONFERENCE ON ADVANCED ENERGY SYSTEMS
PUBL. DATE.....: JUN 20 1974
CONFERENCE.....: CONFERENCE ON ADVANCED ENERGY SYSTEMS
LOCATION......: DENVER, COLORADO, USA
DATE...........: 20 JUN 1974
KEYWORDS......: ECONOMICS/ELECTRIC POWER/ENERGY STORAGE/
                 FLYWHEELS/HYDROELECTRIC POWER/POWER PLANTS/SUPERCONDUCTING
                 MAGNETS/

169 TITLE........: CAN FLYWHEELS REPLACE PUMPED STORAGE?
AUTHORS........: GINSBURG, T.
SOURCE.........: (BLL-CE-TRANS-6761-(9022.09) AVAIL. BRITISH LIBRARY LENDING
                 DIV., BOSTON SPA, ENGLAND
PUBL. DATE.....: JUL 15 1974
KEYWORDS......: FLYWHEELS/ENERGY STORAGE/OFF-PEAK ENERGY/UTILITIES/FLYWHEEL
                 DESIGN/FLYWHEEL MATERIALS/PUMPED STORAGE/ECONOMIC

170 TITLE........: WIND POWER CONVERSION SYSTEM
AUTHORS........: TROLL, J. H.
SOURCE.........: U.S. PATENT 3,944,840 FILED DATE 07 AUG 1974
PUBL. DATE.....: AUG 07 1974
TYPE...........: PATENT
KEYWORDS......: FLYWHEELS/ POWER GENERATION/ SPECIFICATIONS/ WIND
                 TURBINES/WIND TO ELECTRIC/FLYWHEEL STABILIZED/ENERGY
                 STORAGE/UTILITIES/ HYBRID

171 TITLE........: ENERGY STORAGE TECHNOLOGY
AUTHORS........: VANDERRYN, J.
ORGANIZATION: U.S. A.E.C., DIVISION OF APPLIED TECHNOLOGY
ADDRESS.......: WASHINGTON, D.C.
III FLYWHEELS IN UTILITIES

171 TITLE.......: ENERGY STORAGE TECHNOLOGY (CONTD.)
PUBL. DATE....: AUG 18 1974
PUBLISHER....: AMER. SOC. OF CIVIL ENG., N.Y.

CONFERENCE......: CONVERTING EXISTING HYDRO-ELECTRIC DAMS AND RESERVOIRS INTO
PUMPED STORAGE FACILITIES
LOCATION.......: RINDGE, NEW HAMPSHIRE
DATE...........: 18 AUG., 1974

KEYWORDS......: UTILITIES/ENERGY STORAGE/FLYWHEELS/PUMPED STORAGE/STATE-OF-THE-ART/SOLAR ENERGY/WIND ENERGY/FLYWHEELS/COMPRessed
AIR/HEAT STORAGE/REVIEW

172 TITLE.......: ENERGY STORAGE AND ITS ROLE IN ELECTRIC POWER SYSTEMS
AUTHORS.......: HAYDOCK, J. L.

SOURCE.......: WEC/CME, IX, 1 (1974), DETROIT
PUBL. DATE....: SEP 1974
TYPE..........: PROCEEDINGS

KEYWORDS......: ENERGY STORAGE/SUPERCONDUCTING MAGNETS/HEAT STORAGE/PUMPED
STORAGE/UNDERGROUND PUMPED STORAGE/AIR STORAGE/COAL
GASIFICATION/FLYWHEELS/BATTERIES

173 TITLE.......: LARGE FLYWHEEL POWER SUPPLY FOR FUSION EXPERIMENTS IN THE
MAX-PLANCK-INSTITUT FUER PLASMAPHYSIK,GARCHING, GERMANY

AUTHORS.......: KNOBLOCH,A./KOTTMAIR,M./SCHLUETER,W./VAU,G.

ORGANIZATION: MAX-PLANCK-INSTITUT FUER PLASMAPHYSIK
ADDRESS.......: GARCHING, GERM.

SOURCE.......: CONF-740630/- PROCEEDINGS OF THE 8TH SYMPOSIUM ON FUSION
TECHNOLOGY
PUBL. DATE....: SEP 1974

CONFERENCE....: 8. SYMPOSIUM ON FUSION TECHNOLOGY
LOCATION.....: NOORDWIJKERHOUT, NETHERLANDS
DATE..........: 17 JUN 1974

KEYWORDS......: DESIGN/ELECTRIC GENERATORS/ENERGY STORAGE/
FLYWHEELS/THERMONUCLEAR DEVICES/
III FLYWHEELS IN UTILITIES

174 TITLE........: ENERGY STORAGE: INCENTIVES AND PROSPECTS FOR ITS DEVELOPMENT
AUTHORS.......: KALHAMMER, F.

SOURCE.......: AMER. CHEM. SOC. 1974 ANNUAL MEETING, SEP. 12, 1974,
              ATLANTIC CITY, N. J.
PUBL. DATE...: SEP 12 1974
TYPE.........: PRESENTED PAPER

KEYWORDS.....: ENERGY STORAGE/BATTERIES/UTILITIES/CHEMICAL ENERGY
              STORAGE/HYDROGEN/FLYWHEELS/FLYWHEEL DESIGN/PUMPED
              STORAGE/COMPRESSED AIR STORAGE/HIGH TEMPERATURE/SOLAR ENERGY

175 TITLE........: USE OF FLYWHEELS FOR ENERGY STORAGE
AUTHORS.......: RABENHORST, D. W.

SOURCE.......: PRESENTED AT FALL ACS MEET., SEP. 12, 1974, ATLANTIC CITY
PUBL. DATE...: SEP 12 1974
TYPE.........: MEETING PAPER

KEYWORDS.....: FLYWHEELS/UTILITIES/ENERGY STORAGE

176 TITLE........: ASSESSMENT OF ADVANCED CONCEPTS IN ENERGY STORAGE AND THEIR
APPLICATION ON ELECTRIC UTILITY SYSTEMS
AUTHORS.......: FERNANDES, R. A. / GILDERSLEEVE, O.D. / SCHNEIDER, T. R.

SOURCE.......: CONF-740910-P6
PUBL. DATE...: SEP 22 1974
TYPE.........: CONFERENCE PAPER
PUBLISHER.....: WORLD ENERGY CONFERENCE

CONFERENCE...: 9TH WORLD ENERGY CONFERENCE
LOCATION......: DETROIT, MICH. USA
DATE..........: 22 SEP 1974

KEYWORDS.....: COMPARATIVE EVALUATIONS/ COMPRESSED AIR/ ECONOMICS/
              ELECTRIC BATTERIES/ ENERGY STORAGE/ ENVIRONMENTAL EFFECTS/
              FLYWHEELS/ HEAT STORAGE/ HYDROGEN/ OFF-PEAK ENERGY STORAGE/
              POWER PLANTS/ SUPERCONDUCTING MAGNETS/ WATER RESERVOIRS
III FLYWHEELS IN UTILITIES

177 TITLE........: POTENTIAL FOR LARGE-SCALE ENERGY STORAGE IN ELECTRIC UTILITY SYSTEMS
AUTHORS........: KALHAMMER, F. / ZYGIELBAUM, P. S.
PUBL. DATE......: NOV 1974
TYPE...........: PRESENTED PAPER
KEYWORDS.......: ENERGY STORAGE/BATTERIES/UTILITIES/CHEMICAL ENERGY STORAGE/HYDROGEN/FLYWHEELS/FLYWHEEL DESIGN/PUMPED STORAGE/COMPRESSED AIR STORAGE/HIGH TEMPERATURE/SOLAR ENERGY

178 TITLE........: CYCLOCONVERTER-CONTROLLED SYNCHRONOUS MACHINES FOR LOAD COMPENSATION ON AC POWER SYSTEMS
AUTHORS.........: FINLAYSON, P. T. / WASHBURN, D. C.
ORGANIZATION: WESTINGHOUSE ELECTRIC CORP.
ADDRESS........: BUFFALO, N.Y.
SOURCE..........: IEEE TRANS. IND. APPL., IA-10, 6, 808.
PUBL. DATE......: NOV 1974
TYPE............: JOURNAL
PUBLISHER.......: IEEE
KEYWORDS........: ALTERNATING CURRENT/ CONTROL SYSTEMS/ ELECTRIC POWER/ ENERGY STORAGE/ ENGINEERING/ FLYWHEELS/ POWER DEMAND/ TRANSIENTS/ VARIATIONS

179 TITLE........: ELECTRIC POWER SYSTEMS
SUBTITLE........: C-3 ENERGY STORAGE, TRANSMISSION AND DISTRIBUTION, ELECTRIC POWER APPARATUS AND SYSTEMS
AUTHORS.........: ERDA
ORGANIZATION: USAEC
ADDRESS.........: WASHINGTON, D.C.
SOURCE..........: TID--26756
PUBL. DATE......: NOV 11 1974
CATEGORY........: ADMINISTRATION ELECTRONICS AND ELECTRICAL ENGINEERING ENERGY SOURCES

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ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

179 TITLE........: ELECTRIC POWER SYSTEMS (CONTD.)
KEYWORDS......: MANAGEMENT/PLANNING/RESEARCH PROGRAMS/ELECTRIC
                BATTERIES/ENERGY STORAGE/FLYWHEELS / HYDROGEN/MAGNET
                COILS/PRODUCTION/EHV SYSTEMS/ HVDC SYSTEMS/POWER
                TRANSMISSION/ POWER TRANSMISSION LINES/SUPERCONDUCTING
                CABLES/UNDERGROUND POWER TRANSMISSION/

180 TITLE........: SKAGIT NUCLEAR POWER PROJECT, UNITS 1 AND 2. LICENSE
APPLICATION
SUBTITLE.......: PSAR VOLUME 4 DESIGN OF STRUCTURES, COMPONENTS, EQUIPMENT, AND
                SYSTEMS COOLANT SYSTEMS AND ENGINEERED SAFETY FEATURES
AUTHORS.......: PUGET SOUND POWER AND LIGHT CO.
ORGANIZATION: PUGET SOUND POWER AND LIGHT CO.
ADDRESS......: BELLEVUE, WASH. (USA)
SOURCE.......: DOCKET-STN-50522—27 DOCKET-STN-50523—27
PUBL. DATE...: 1976

KEYWORDS......: CONCRETES/CONTAINMENT/COOLANT CLEANUP
                SYSTEMS/DESIGN/ELECTRICAL EQUIPMENT/ENGINEERED SAFETY
                SYSTEMS/FEEDWATER/FLOODS / FLOW REGULATORS / FLYWHEELS /
                FOUNDATIONS/HYDRAULICS/INSPECTION/ISOLATION/LEAK
                TESTING/MECHANICAL STRUCTURES /MISSILE PROTECTION /
                PIPELINES / POWER GENERATION/ PRESSURE VESSELS/PUMPS/REACTOR
                COMPONENTS/ REACTOR COOLING SYSTEMS/ REACTOR
                CORES/ RUPTURES/SEISMIC EFFECTS/SKAGIT-1 REACTOR/SKAGIT-2
                REACTOR/STEAM LINES/TORNADOES/TRANSIENTS/VENTILATION/WIND/

181 TITLE.......: ENERGY STORAGE
AUTHORS.......: KALHAMMER, F. R. / COOPER, V. R.
ORGANIZATION: EPRI
ADDRESS......: PALO ALTO, CA
SOURCE.......: EPRI RESEARCH PROGRESS REPORT FF2, 11-17
PUBL. DATE...: JAN 1975

KEYWORDS......: ELECTRIC POWER RESEARCH INST. / ENERGY STORAGE R & D /
                FLYWHEELS/ BATTERIES/ PEAK LOAD MANAGEMENT/ PUMPED STORAGE /
                COMPRESSED AIR/ THERMAL ENERGY STORAGE/ SUPERCONDUCTING
                MAGNETS/ ECONOMICS/ ENERGY STORAGE FLYWHEELS/ UTILITIES/OFF-
                PEAK ENERGY/BATTERIES/PUMPED STORAGE/ COMPRESSED
                AIR/THERMAL ENERGY/SUPER CONDUCTING MAGNETS
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

182 TITLE.......: THREE MILE ISLAND NUCLEAR STATION, UNIT 2.80 INSPECTION REPORT NO.75-01 AND CORRESPONDENCE
SUBTITLE......: INSPECTION OF CONSTRUCTION ACTIVITIES AND RECORDS
AUTHORS.......: METROPOLITAN EDISON CO.
ORGANIZATION: METROPOLITAN EDISON CO.
ADDRESS......: READING, PA. (USA)
SOURCE.......: DOCKET-50320-131
PUBL. DATE..: JAN 31 1975
PUBLISHER....: 31 JAN 1975
KEYWORDS.....: CONTAINMENT SPRAY SYSTEMS
              /FLYWHEELS/INSPECTION/MODIFICATIONS/PUMPS/REACTOR
              INTERNALS/RESTRAINTS/THREE MILE ISLAND-2 REACTOR/ULTRASONIC
              TESTING/

183 TITLE.......: ANALYSIS OF HOMOPOLAR GENERATORS AND SUPERCONDUCTING
INDUCTIVE ENERGY STORAGE SYSTEMS AS POWER SUPPLIES FOR HIGH-
ENERGY, SPACE-BASED LASERS
AUTHORS.......: GILBERT, J.S./KERN, E.A.
ORGANIZATION: LOS ALAMOS SCIENTIFIC LAB.
ADDRESS......: N.MEX. (USA)
SOURCE.......: LA-5837-MS
CONTRACT # ..: W-7405-ENG-36
PUBL. DATE..: FEB 1975

CATEGORY......: ENERGY SOURCES

KEYWORDS.....: ELECTRIC GENERATORS/ENERGY
              STORAGE/FLYWHEELS/INDUCTION/LASERS/POWER
              SUPPLIES/SUPERCONDUCTING MAGNETS/

184 TITLE.......: UTILITIES EYE LARGE-SCALE ENERGY STORAGE
AUTHORS.......: RICCI, L. J.
PUBL. DATE..: FEB 03 1975
TYPE.........: PERIODICAL
184 TITLE: UTILITIES EYE LARGE-SCALE ENERGY STORAGE (CONT'D.)
KEYWORDS: UTILITIES/OFF-PEAK STORAGE/FLYWHEELS/BATTERIES/HYDROGEN
GENERATORS/SUPERCONDUCTING MAGNETS

185 TITLE: ENERGY STORAGE BY FLYWHEELS
AUTHORS: FULLMAN, R. L.
ORGANIZATION: GENERAL ELECTRIC CO.
ADDRESS: CORPORATE RESEARCH AND DEVELOPMENT, SCHENECTADY, N. Y.
SOURCE: REPORT NO. 75CRD051
PUBL. DATE: APR 1975
TYPE: REPORT

KEYWORDS: FLYWHEELS/ENERGY STORAGE/FLYWHEEL DESIGN/ECONOMICS

186 TITLE: STORING ELECTRICAL ENERGY ON A LARGE SCALE
ORGANIZATION: CENTRAL ELECTRICITY RESEARCH LABS
ADDRESS: LEATHERHEAD, ENG.
SOURCE: CEBR RES./2/MAY 1975/12-20/
PUBL. DATE: MAY 1975

KEYWORDS: AIR/COMPRESSION/CGST/ECONOMICS/ELECTRIC BATTERIES/ELECTRIC
POWER/FEEDWATER HEATERS/FLYWHEELS/NUCLEAR POWER/NUCLEAR
POWER PLANTS/OFF-PEAK ENERGY STORAGE/OPERATION/PLANNING/
SUPERCONDUCTING MAGNETS/WATER RESERVOIRS/

187 TITLE: DIGEST OF CURRENT RESEARCH IN THE ELECTRIC UTILITY INDUSTRY
AUTHORS: EPRI
ORGANIZATION: ELECTRIC POWER RESEARCH INST.
ADDRESS: 3412 HILLVIEW AVE., PALO ALTO, CA. 94304
PUBL. DATE: MAY 1975
TYPE: REPORT
PUBLISHER: EPRI
III FLYWHEELS IN UTILITIES

187  TITLE.......: DIGEST OF CURRENT RESEARCH IN THE ELECTRIC UTILITY INDUSTRY (CONTD.)
     KEYWORDS.....: AIR POLLUTION/ AQUACULTURE/ ELECTRIC BATTERIES/ ELECTRIC
                    POWER/ ELECTRIC-POWERED VEHICLES/ ENVIRONMENTAL EFFECTS/
                    FLYWHEELS/ FOSSIL FUELS/ FUEL CELLS/ GEOTHERMAL POWER
                    PLANTS/ HYDROELECTRIC POWER/ INFORMATION/
                    MAGNETOHYDRODYNAMICS/ NUCLEAR POWER/ POWER TRANSMISSION/
                    PUBLIC UTILITIES/ RESEARCH PROGRAMS/ SOLAR POWER PLANTS

188  TITLE.......: SUPERFLYWHEEL FOR STORING ENERGY FROM OTEC PLANTS
     AUTHORS......: RABENHORST, D. W. / DUGGER, G. L.
     EDITOR.......: DUGGER, G. L.
     ORGANIZATION: JOHNS HOPKINS UNIV.
     ADDRESS......: LAUREL, MD.
     SOURCE.......: APL/ JHU-SR-75-2. ALSO: CONF-750579. PROCEEDINGS, THIRD
                    WORKSHOP ON OCEAN THERMAL ENERGY CONVERSION (OTEC)
     PUBL. DATE...: MAY 08 1975
     TYPE..........: REPORT
     CONFERENCE...: WORKSHOP ON OCEAN THERMAL ENERGY CONVERSION
     LOCATION.....: HOUSTON, TEXAS
     DATE..........: 8 MAY, 1975
     KEYWORDS.....: DESIGN/ ENERGY STORAGE/ FEASIBILITY STUDIES/ FLYWHEELS/
                    OFF-PEAK ENERGY STORAGE/ SOLAR SEA POWER PLANTS/ OTEC/ OCEAN
                    THERMAL ENERGY CONVERSION

189  TITLE.......: ENERGY STORAGE DEVICE
     AUTHORS......: TIN, W.C.
     PUBL. DATE...: MAY 21 1975
     TYPE..........: PATENT
     KEYWORDS.....: FLYWHEELS/ENERGY STORAGE/HYBRID

190  TITLE.......: ENERGY STORAGE FOR WIND ENERGY CONVERSION SYSTEMS
     AUTHORS......: ZLOTNICK, M.
     ORGANIZATION: ERDA
III FLYWHEELS IN UTILITIES

190 TITLE........: ENERGY STORAGE FOR WIND ENERGY CONVERSION SYSTEMS (CONTD.)
SOURCE.........: PRESENTED AT ERDA/NSF 2ND WIND ENERGY CONVERSION SYSTEM
                WORKSHOP, WASH. D.C.
PUBL. DATE.....: JUN 09 1975
TYPE..........: TECHNICAL PUBLICATION

KEYWORDS......: WIND ENERGY/ ENERGY STORAGE/ FLYWHEELS/ COMPRESSED AIR/
                 PUMPED STORAGE/ BATTERIES/ CONF PAPER

191 TITLE........: TECHNICAL ASSESSMENT OF ENERGY STORAGE TECHNOLOGIES
AUTHORS........: SCHNEIDER, T. R.
ORGANIZATION...: PUBLIC SERVICE ELECTRIC AND GAS CO.
ADDRESS.......: NEWARK, NJ
SOURCE........: AM. NUCL. SOC. TRANS., P. 145
PUBL. DATE.....: JUN 21 1975
CONFERENCE....: AMERICAN NUCLEAR SOCIETY 1975 ANNUAL MEETING
LOCATION......: NEW ORLEANS, LA
DATE...........: 6 JUN 1975

KEYWORDS......: ENERGY STORAGE COMPARISON/PUMPED HYDRO/COMPRESSED AIR/
                 TURBINE/ BATTERIES/FLYWHEEL/CHEMICAL/ THERMAL/ECONOMICS
                 TECHNOLOGY

192 TITLE........: FOSSIL FUEL AND ADVANCED SYSTEMS DIVISION RESEARCH PROGRESS
SUBTITLE.......: REVIEW OF MAJOR PROJECTS
AUTHORS........: ELECTRIC POWER RESEARCH INST.
ORGANIZATION...: ELECTRIC POWER RESEARCH INST.
ADDRESS.......: PALO ALTO, CALIF. (USA)
SOURCE.........: EPRI-FF--3
PUBL. DATE.....: JUL 1975
TYPE...........: STAFF REPORTS

KEYWORDS......: COAL / COAL GASIFICATION/ COAL LIQUEFACTION/ COAL
                 MINING/ COMBINED CYCLES/ CONTROL/ CORROSION/ DESULFURIZATION/
                 ELECTRIC BATTERIES/ENERGY STORAGE/ EROSION/ FLUE
                 GAS/ FLUIDIZED-BED COMBUSTION/ FLYWHEELS/ GAS TURBINES/
                 GEOTHERMAL ENERGY/ METALS/ MHD GENERATORS/ NITROGEN
                 OXIDES/ REMOVAL/ SCRUBBERS/ SOLAR ENERGY/ SULFUR OXIDES/
                 THERMONUCLEAR REACTORS/
193 TITLE........: DEVELOPMENT OF HIGH-DENSITY INERTIAL-ENERGY STORAGE FINAL REPORT
AUTHORS........: GORDON, H. S.
SOURCE.........: (PB-245998/0; EPRI-269-1) AVAL: NTIS HC $6.00 CSCL 10C
PUBL. DATE.....: JUL 1975
KEYWORDS.......: FLYWHEEL/FLYWHEEL DEVELOPMENT/FIBER COMPOSITES

194 TITLE........: REPETITIVE PLASMA FOCUS POWERED BY A APPROX. 200 MJ
FLYWHEEL GENERATOR.
AUTHORS........: NARDI, V.
ORGANIZATION: ARGONNE NATIONAL LAB.
ADDRESS........: ARGONNE, ILL.
SOURCE.........: CONF-750723 PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON
RADIATION TEST FACILITIES FOR THE CTR SURFACE AND MATERIALS
PROGRAM. ALSO: ANL/CTR-75-4
PUBL. DATE.....: JUL 15 1975
PUBLISHER......: ANL. ALSO: ERDA, DIV. OF CONTROLLED THERMONUCLEAR RESEARCH,
AND AVOGADRO ENERGY SYSTEMS, INC., JAMAICA, N.Y.
CONFERENCE.....: INTERNATIONAL CONFERENCE ON RADIATION TEST FACILITIES FOR
THE CTR SURFACE AND MATERIALS PROGRAM
LOCATION.......: ARGONNE, ILL.
DATE...........: 15 JULY, 1975
KEYWORDS.......: DEUTERIUM/ ELECTRODES/ FLYWHEELS/ NEUTRON SOURCES/
PERFORMANCE/ PLASMA FOCUS DEVICES

195 TITLE........: AC/DC POWER CONDITIONING AND CONTROL EQUIPMENT FOR ADVANCED
CONVERSION AND STORAGE TECHNOLOGY.
AUTHORS........: WOOD, P. / PELLY, B. R.
ORGANIZATION: WESTINGHOUSE ELECTRIC CORP.
SOURCE.........: ELECTRIC POWER RESEARCH INST. REPORT 390-1-1
PUBL. DATE.....: AUG 1975
TYPE...........: REPORT

KEYWORDS.......: UTILITIES/AC-DC POWER CONVERSION/CONTROL/ECONOMICS/ ENERGY
STORAGE/BATTERIES/INVERSION
III FLYWHEELS IN UTILITIES

196 TITLE........: REACTOR COOLANT PUMP FLYWHEEL INTEGRITY
AUTHORS........: NUCLEAR REGULATORY COMM.
ORGANIZATION: NUCLEAR REGULATORY COMMISSION, OFFICE OF STANDARDS DEVELOPMENT
ADDRESS.......: WASHINGTON, D.C. (USA)
SOURCE........: (REG G-1.14 (REV. 1) (8-75))
PUBL. DATE.....: AUG 1975
KEYWORDS.......: FAILURES/FLYWHEELS/POWER REACTORS/PRIMARY COOLANT CIRCUITS/
PUMPS/REGULATORY GUIDES/

197 TITLE........: POWER PLANT
AUTHORS........: ARIGA, H.
SOURCE........: US PATENT 3,808,794 FILED DATE 26 MAR 1973
PUBL. DATE.....: AUG 12 1975
TYPE...........: PATENT
ASSIGNED.......: NISSAN MOTOR CO.LTD., JAPAN

KEYWORDS.......: VEHICLES/HYDROGEN PEROXIDE TURBINE/FLYWHEEL

198 TITLE........: KINETIC ENERGY STORAGE OF OFF-PEAK ELECTRICITY
AUTHORS........: SIMPSON, L. A. / OLDAKER, I. E. / STERMSCHEG, J.
ORGANIZATION: ATOMIC ENERGY OF CANADA LTD., WHITESHELL NUCLEAR RESEARCH
ESTABLISHMENT
ADDRESS.......: PINAWA, MANITOBA, CAN.
SOURCE........: AECL-5116
PUBL. DATE.....: SEP 1975
TYPE...........: REPORT
PUBLISHER.......: AECL

KEYWORDS.......: COMPOSITE MATERIALS/ COST/ DESIGN/ ELECTRIC POWER/ ENERGY
LOSSES/ FLYWHEELS/ OFF-PEAK ENERGY STORAGE
199 TITLE: AN EVALUATION OF THE FUTURE ROLE OF STORAGE TECHNIQUES IN ELECTRIC POWER TECHNOLOGY

AUTHORS: PEZDIERTZ, G. F.

ORGANIZATION: ERDA, DIV. OF CONSERVATION RESEARCH AND TECHNOLOGY.

SOURCE: PRESENTED AT INTL. ENERGY ENGINEERING CONGRESS, CHICAGO

PUBL. DATE: NOV 04 1975

CONFERENCE: INTL. ENERGY ENGINEERING CONGRESS, CHICAGO, ILL., SESSION C9C

KEYWORDS: SOLAR ENERGY STORAGE/ BATTERIES/ FLYWHEELS/ PUMPED STORAGE/ FUEL CELLS/ COMRESSED AIR/ THERMAL STORAGE/ AUTOMOBILE ENERGY USAGE/ ENERGY, PRE-20TH CENTURY/ CONF PAPER UTILITIES/ENERGY STORAGE/BATTERIES/FLYWHEEL/SOLAR ENERGY/PUMPED STORAGE/COMRESSED AIR/VEHICLES

200 TITLE: PROPOSED TFTR ELECTRICAL SYSTEM

AUTHORS: BRONNER, G. / MURRAY, J.

ORGANIZATION: PRINCETON UNIV., PLASMA PHYSICS LAB., N.J.

SOURCE: CONF-751125-91

PUBL. DATE: NOV 17 1975

TYPE: PROCEEDINGS

CONFERENCE: IEEE 6. SYMPOSIUM ON ENGINEERING PROBLEMS OF FUSION RESEARCH

LOCATION: SAN DIEGO, CA.

DATE: NOV. 17 1975

KEYWORDS: ENERGY STORAGE/ FLYWHEELS/ POWER SUPPLIES/ POWER TRANSMISSION/ RECTIFIERS/ TFTR DEVICE

201 TITLE: ECONOMIC AND TECHNICAL FEASIBILITY STUDY FOR ENERGY STORAGE FLYWHEELS

AUTHORS: ROCKWELL INTERNATIONAL, SPACE DIV.

SOURCE: SD 75-SA-0166, DEC. 1975

PUBL. DATE: DEC 1975
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

202 TITLE........: FLYWHEELS - POWER ON THE FLY
AUTHORS........: MECH. ENG.
SOURCE.........: MECH ENG 97:50 DECEMBER 1975
PUBL. DATE.....: DEC 1975

203 TITLE........: LIL PROGRAM FOR COMPOSITE FLYWHEEL
AUTHORS........: CHIAO, T. T. / STONE, R. G.
ORGANIZATION..: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA. 94550
SOURCE........: UCRL-77567
PUBL. DATE.....: DEC 15 1975
TYPE..........: REPORT
PUBLISHER.....: LIL
CONFERENCE.....: FLYWHEEL TECHNOLOGY SYMPOSIUM
LOCATION......: BERKELEY, CA.
DATE..........: 10 NOV 1975
KEYWORDS......: COMPOSITE MATERIALS / ENERGY STORAGE / FLYWHEELS / MATERIALS / RESEARCH PROGRAMS

204 TITLE........: ENERGY STORAGE - FEASIBILITY STUDY OF AN EXPERIMENT INVOLVING SOLAR ENERGY COLLECTION, ITS STORAGE BY A SUPER FLYWHEEL, AND ELECTRIC POWER GENERATION.
AUTHORS........: TATRY, B.
SOURCE.........: L’AERONAUTIQUE ET L’ASTRONAUTIQUE, NO. 56, 46-51.
PUBL. DATE.....: 1976
KEYWORDS.......: FLYWHEEL/UTILITIES/ENERGY STORAGE/SOLAR ENERGY/SUPERFLYWHEEL/COMPOSITE MATERIALS

205 TITLE........: WHEN DO ELECTRIC STORAGE DEVICES MAKE ECONOMIC SENSE?
AUTHORS........: BRAUN, C. / CHERNIAVSKY, E. A. / SALZANO, F. J.
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONologically WITHIN EACH CATEGORY

III FLYWHEELS IN UTILITIES

205  TITLE.......: WHEN DO ELECTRIC STORAGE DEVICES MAKE ECONOMIC SENSE? (CONTD.)
ORGANIZATION: BROOKHAVEN NATIONAL LABORATORY
ADDRESS.....: UPTON, N.Y.
SOURCE......: (1, 2, WIN 1976)=(24)
PUBL. DATE..: 1976

KEYWORDS.....: PUMPED STORAGE/UTILITIES/HYDROGEN/MAGNETIC/COMPRESSED AIR/
FLYWHEELS/BATTERIES

206  TITLE.......: MECHANICAL CAPACITOR
AUTHORS......: KIRK, JAMES A. / STUDER, PHILIP A. / EVANS, HAROLD E.

SOURCE......: (NASA-TN-D-6185: G-7639) AVAIL: NTIS HC $4.50 CSCL 10C
PUBL. DATE..: MAR 1976

KEYWORDS.....: FLYWHEELS/MECHANICAL CAPACITOR/ENERGY STORAGE/FLYWHEEL
DESIGN

207  TITLE.......: ASSESSMENT OF THE STATE-OF-THE-ART OF FEEDING WIND-
GENERATED ELECTRICITY INTO UTILITY POWER GRIDS
AUTHORS......: REED, J. J.
ORGANIZATION: TETRA TECH INC.
ADDRESS.....: ARLINGTON, VA.
SOURCE......: TETRAT-A-642-76-240
CONTRACT #: ..: N00014-76-C-0239
PUBL. DATE..: MAR 08 1976
TYPE.........: TECHNICAL REPT.

KEYWORDS.....: ELECTRIC GENERATORS/ WIND/ POWER DISTRIBUTION/ ENERGY
STORAGE/ TRANSMISSION LINES/ COMPRESSED AIR/ FLYWHEELS/
HYDROGEN/ ELECTRIC BATTERIES/ FUEL CELLS

208  TITLE.......: ENERGY STORAGE
AUTHORS......: CASAZZA, J. A. / SCHNEIDER, T. R. / SULZBERGER, V. T.
ORGANIZATION: PUBLIC SERVICE ELECTRIC AND GAS CO.
III FLYWHEELS IN UTILITIES

208 TITLE.......: ENERGY STORAGE (CONTD.)
SOURCE.......: PRESENTED AT ENERGY TECHNOLOGY 3RD CONF, WASH DC, MAR 29-31, 1976.
PUBL. DATE....: MAR 29 1976
TYPE.........: TECHNICAL FEATURE

KEYWORDS.....: FLYWHEELS/ENERGY STORAGE/UTILITIES/ECONOMICS

209 TITLE.......: ENERGY ON CALL: A MORE EFFICIENT PEAKING SYSTEM WOULD EXPLOIT THE ADVANTAGES OF ENERGY STORAGE, WHILE CONSERVING CAPITAL AND RESOURCES

AUTHORS.......: CASAZZA, J. A. / SCHNEIDER, T. R. / SULZBERGER, V. T.
ORGANIZATION: PUBLIC SERVICE ELECTRIC AND GAS CO.
ADDRESS.......: NEWARK, N.J.
SOURCE.......: IEEE SPECTRUM 13, 6, JUN 1976, 45-47
PUBL. DATE....: JUN 1976
TYPE.........: JOURNAL ART.
PUBLISHER.....: IEEE

KEYWORDS.....: ENERGY STORAGE/ECONOMICS/OFF-PEAK STORAGE
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

210 TITLE.......: AN ELECTRO-MECHANICAL ENERGY STORAGE SYSTEM FOR SPACE APPLICATION
AUTHORS.......: ROES, J. B.
ORGANIZATION: GENERAL DYNAMICS CORP.
ADDRESS.......: SAN DIEGO, CA.
SOURCE.......: PROG. ASTRONAUT. AERONAUT. 3, 1961, 613-622 ENERGY CONVERSION FOR SPACE POWER
PUBL. DATE...: 1961
TYPE.........: JOURNAL BOOK (ACADEMIC PRESS)
KEYWORDS.....: BEARINGS/ DESIGN/ ELECTROMAGNETS/ ENERGY STORAGE/ FLYWHEELS/ INVERTERS/ LEVITATION/ RECTIFIERS/ SPACECRAFT POWER SUPPLIES/ SPECIFICATIONS/ TRANSFORMERS ENERGY STORAGE/FLYWHEELS/SPACECRAFT POWER SUPPLY/MAGNETICALLY SUSPENDED FLYWHEELS

211 TITLE.......: MAGNETIC BEARINGS FOR AEROSPACE APPLICATIONS
AUTHORS.......: EDGAR, R. F. / ET AL.
SOURCE.......: TDR 63-474, FOR WRIGHT PATTERSON AFB, OHIO, 1963.
PUBL. DATE...: 1963
TYPE.........: REPORT
KEYWORDS.....: BEARINGS/AEROSPACE VEHICLES/FRICITIONLESS SUPPORT/ MAGNETOHYDRODYNAMICS

212 TITLE.......: EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS FOR AIRCRAFT ACTUATION FUNCTIONS
AUTHORS.......: NORTH AMERICAN AVIATION INC, LOS ANGELES DIV.
SOURCE.......: NA-66-1142-2, QUART TECH RPT NO 2, 1 OCT- 31 DEC 1966
CONTRACT #...: AF33(615)-5173
PUBL. DATE...: JAN 12 1967
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

213 TITLE........: EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS
FOR AIRCRAFT ACTUATION FUNCTIONS
AUTHORS........: NORTH AMERICAN AVIATION INC., LOS ANGELES DIV.
SOURCE.........: NA-66-1142-3, QUART TECH RPT NO 3, 1 JAN - 31 MAR 1967
CONTRACT #.....: AF33(615)-5173
PUBL. DATE.....: APR 10 1967

214 TITLE........: EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS
FOR AIRCRAFT ACTUATION FUNCTIONS
AUTHORS........: NORTH AMERICAN AVIATION INC., LOS ANGELES DIV.
SOURCE.........: NA-66-1142-4, QUART TECH RPT NO 4, 1 JUN - 30 JUN 1967
CONTRACT #.....: AF33(615)-5173
PUBL. DATE.....: JUL 10 1967

215 TITLE........: EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS
FOR AIRCRAFT ACTUATION FUNCTIONS
AUTHORS........: NORTH AMERICAN AVIATION INC., LOS ANGELES DIV.
SOURCE.........: NA-66-1142-5, QUART TECH RPT NO 5, 1 JULY - 30 SEP 1967
CONTRACT #.....: AF33(615)-5173
PUBL. DATE.....: OCT 10 1967

216 TITLE........: EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS
FOR AIRCRAFT ACTUATION FUNCTIONS
AUTHORS........: HELSLEY, C. W. / CALL, B. J.
ORGANIZATION: NORTH AMERICAN ROCKWELL, LOS ANGELES DIV.
SOURCE.........: REPORT NO. NA-67-964, PREPARED FOR AIR FORCE SYSTEMS
COMMAND, WRIGHT-PATTERSON AFB, OHIO, DEC. 1967.
PUBL. DATE.....: DEC 1967
TYPE...........: REPORT
IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

216 TITLE........: EXPERIMENTAL DEMONSTRATION OF ENERGY STORAGE SUBSTATIONS
KEYWORDS....: FLYWHEELS/ENERGY STORAGE/UTILITIES/PEAK ENERGY DEMANDS (CONTD.)

217 TITLE........: WEIGHT IS SAVED WHEN FLYWHEEL ENERGY STORAGE UNIT
SUPPLMENTS AIRCRAFT SECONDARY POWER SYSTEMS.
AUTHORS......: HELESLEY, C. W.
SOURCE.......: SAE J. VOL 77, P 64, JAN 1969.
PUBL. DATE...: JAN 1969

218 TITLE........: A GREASE-LUBRICATED HYDRODYNAMIC BEARING SYSTEM FOR A
SATELLITE FLYWHEEL
AUTHORS......: REINHOURDT, J. P.
SOURCE.......: LUBRICATION ENGINEERING, MAR. 1970, P. 95.
PUBL. DATE...: MAR 1970
TYPE..........: JOURNAL

KEYWORDS....: FLYWHEELS/POWER SUPPLY/SPACECRAFT

219 TITLE........: SATELLITE FLYWHEEL
ORGANIZATION: BRITISH AIRCRAFT CORP.
ADDRESS......: STEVENAGE, ENGLAND
SOURCE.......: ECSR-CR-28
CONTRACT #:..: ESTEC-568-68
PUBL. DATE...: MAR 1970
TYPE..........: FINAL REPORT

KEYWORDS....: FLYWHEELS/SPACECRAFT/GAS BEARINGS
IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

220 TITLE: A NEW TECHNICAL IDEA ON FLYWHEELS {NOUVELLE CONCEPTION TECHNIQUE DES VOLANTS D'INERTIE}
AUTHORS: POUBEAU, P.
SOURCE: NASA-TT-F-13075, TRANS. INTO ENGLISH FROM NORD-AVIATION REPORT NO. X.S./010/69 BY SCIENTIFIC TRANSLATION SERVICE, SANTA BARBARA, CALIF
CONTRACT #: NASW-2035
PUBL. DATE: JUN 1970
KEYWORDS: FLYWHEEL/SATELLITES/FLYWHEEL SYSTEMS DESIGN

221 TITLE: SATELLITE FLYWHEEL
AUTHORS: BARWELL, L. D. G. / SWAIN, J.
ORGANIZATION: BRITISH AIRCRAFT CORP., GUIDED WEAPONS DIV.
ADDRESS: STEVENAGE, ENGLAND
SOURCE: ST-5139
CONTRACT #: ESTEC-568-68-SL
PUBL. DATE: DEC 1970
TYPE: FINAL REPORT
KEYWORDS: FLYWHEEL/SPACECRAFT/FLYWHEEL DESIGN/FLYWHEEL CONSTRUCTION/ HYDRODYNAMIC GAS BEARINGS

222 TITLE: THE DRALLRAD: A FLYWHEEL FOR THE STABILIZATION OF SYNCHRONOUS SATELLITES
AUTHORS: WEHDE, HEINZ
ORGANIZATION: TELDIX LUFTFAHRT-AUSRUESTUNGS G.M.B.H.
ADDRESS: HEIDELBERG, WEST GERMANY
SOURCE: AGARD AVIONICS IN SPACECRAFT
PUBL. DATE: SEP 1971
KEYWORDS: FLYWHEELS/SPACECRAFT/FLYWHEEL OPTIMIZATION/FLYWHEEL DESIGN
IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

223 TITLE........: SUMMARY OF GAS BEARING APPLICATIONS IN THE FIELD OF SPACE ELECTRIC POWER SYSTEMS
AUTHORS........: DUNN, J. H. / REAM, L. W.
SOURCE.........: 7TH. INTERSOC. ENERGY CONVERSION ENG. CONF., 1972.
PUBL. DATE......: 1972
TYPE...........: CONFERENCE PROCEEDINGS

224 TITLE........: APPLICATION OF ISOTENSOID FLYWHEELS TO SPACECRAFT ENERGY AND ANGULAR MOMENTUM STORAGE
AUTHORS........: ADAMS, L. R.
ORGANIZATION: ASTRO RESEARCH CORP.
ADDRESS.......: SANTA BARBARA, CALIF.
SOURCE.........: NASA-CR-1971; ARC-R-423
CONTRACT #...: NAS7-726
PUBL. DATE....: FEB 1972
TYPE...........: FINAL REPORT

KEYWORDS.......: FLYWHEELS/FLYWHEEL DESIGN/ISOTENSOID FLYWHEEL/FLYWHEEL EVALUATION/CONTROL MOMENT GYROS

225 TITLE........: QUALIFICATION TESTS ON REACTION FLYWHEELS SUPPORTED ON GREASE-LUBRICATED BEARINGS
AUTHORS........: BOS, J. G. G.
ORGANIZATION: PHILIPS GLOEILAMPENFABRIEKEN N. V.
ADDRESS.......: EINDHOVEN, NETHERLANDS
SOURCE.........: ESRD-CR-87
CONTRACT #...: ESTEC-1119/70
PUBL. DATE....: JUL 1972

KEYWORDS.......: FLYWHEELS/SPACECRAFT/FLYWHEELS TEMPERATURE DEPENDENCE/FLYWHEELS- VIBRATION/FLYWHEELS-SHOCK
IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

226 TITLE........: HIGH PERFORMANCE HELICOPTER HOIST PROGRAM
ORGANIZATION: LOCKHEED MISSILES AND SPACE CO., GROUND VEHICLE SYSTEMS
ADDRESS.......: SUNNYVALE, CALIF.
SOURCE........: AD-751217; LMSC-D267477; LWL-CR-02M72
CONTRACT #....: DAAD05-72-C-0099
PUBL. DATE....: AUG 1972
TYPE..........: FINAL REPORT

KEYWORDS.....: FLYWHEELS/HELICOPTER/FLYWHEEL CONFIGURATIONS/FLYWHEEL MATERIALS

227 TITLE........: DYNAMICS OF A SATELLITE WITH A FLYWHEEL AND FLEXIBLE SOLAR ARRAYS
AUTHORS........: PFEIFFER, F. / POHL, A.
ORGANIZATION: MESSERSCHMITT-BÖLKOW-BLOHM GMBH
ADDRESS.......: MUNICH, W. GERMANY
SOURCE........: ASTRONAUTICAL RESEARCH (TO BE PUBLISHED)
PUBL. DATE.....: 1973
PUBLISHER......: INTERNATIONAL ASTRONAUTICAL FEDERATION
CONFERENCE....: 24. IAF INTERNATIONAL ASTRONAUTICAL CONGRESS INTERNATIONAL ASTRONAUTICAL FEDERATION, INTERNATIONAL ASTRONAUTICAL CONGRESS, 24TH PAPER 87
LOCATION......: BAKU, AZERBAIJAN SSR
DATE...........: 7-13 OCT 1973

KEYWORDS.....: FLYWHEELS/SATELLITES/SOLAR CELL ARRAYS/SPACECRAFT POWER SUPPLIES/ FLYWHEELS/SATELLITES/SOLAR ARRAYS/CALCULATIONS

228 TITLE........: CIRCUIT DESIGN REPORT FOR A MOMENTUM WHEEL MOTOR CURRENT CONTROL UNIT
AUTHORS........: HAINES, J. E.
ORGANIZATION: HAWKER SIDDELEY DYNAMICS, LTD.
ADDRESS.......: STEVENAGE, ENGLAND
SOURCE........: HSD-TN-3866; ESRO-CR(P)-340
CONTRACT #....: ESTEC-1522/71
PUBL. DATE.....: 1973
IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

228 TITLE........: CIRCUIT DESIGN REPORT FOR A MOMENTUM WHEEL MOTOR CURRENT (CONTD.)
KEYWORDS.......: FLYWHEEL/FLYWHEEL DESIGN/FLYWHEEL RELIABILITY/SPACECRAFT

229 TITLE........: ENVIRONMENTAL TESTS ON DRALLRAD DR 20-6-ZKM
AUTHORS........: SCHULZ, HANS HOLGER
ORGANIZATION: TELDIX LUFTFAHRT-AUSRUESTUNGS G.M.B.H.
SOURCE.........: ESRO-CR-96
CONTRACT #....: ESTEC-1370/71
PUBL. DATE....: APR 1973
KEYWORDS.......: FLYWHEELS/FLYWHEEL TESTING/SPACECRAFT

230 TITLE........: FURTHER TESTING AND DESIGN IMPROVEMENT OF GREASE LUBRICATED
SPIRAL GROOVE BEARING MOMENTUM WHEEL
AUTHORS........: BOLLEN, J. A. C.
ORGANIZATION: HOLLANDSE SIGNAALAPPARATEN B. V.
ADDRESS.......: HENGELO, NETHERLANDS
SOURCE.........: FINAL REPORT ESRO-CR(P)-544
PUBL. DATE....: 1974
KEYWORDS.......: FLYWHEELS/ENERGY STORAGE/GREASE BEARING FLYWHEEL/DESIGN AND
MANUFACTURE/FLYWHEEL TESTING

231 TITLE........: INTEGRATED POWER/ATTITUDE CONTROL SYSTEM (IPACS) STUDY.
VOLUME 1: FEASIBILITY STUDIES
AUTHORS........: NOTTI, J. E. / CORMACK, A. / SCHMILL, W. C.
ORGANIZATION: ROCKWELL INTERNATIONAL, SPACE DIV.
ADDRESS.......: DOWNEY, CALIF.
SOURCE.........: NASA-CR-2383; SD-73-SA-0101-1
CONTRACT #....: NAS1-11732
PUBL. DATE....: APR 1974
KEYWORDS.......: FLYWHEELS/ENERGY STORAGE/COST EFFECTIVENESS/SPACECRAFT/
FLYWHEEL ARRAY
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

232
TITLE.......: INTEGRATED POWER/ATTITUDE CONTROL SYSTEM (IPACS) STUDY. VOLUME 2: CONCEPTUAL DESIGNS
AUTHORS......: NOTTI, J. E. / CORMACK, A. / SCHMILL, W. C.
SOURCE.......: NASA-CR-2384; SD-73-SA-0101-2-VOL-2
PUBL. DATE..: APR 1974

233
TITLE.......: DESIGN AND LUBRICATION OF BALL BEARING UNIT FOR FLYWHEELS
AUTHORS......: AUER, WERNER
ORGANIZATION: TELDIX LUFTFAHRT-AUSRUHESTUNGS G.M.B.H.
ADDRESS......: HEIDELBERG, WEST GERMANY
PUBL. DATE..: APR 09 1974
CONFERENCE....: EUROPEAN SPACE TRIBOLOGY SYMP.
LOCATION.....: FRASCATI, ITALY
DATE.........: APRIL 9-11, 1974

234
TITLE.......: THERMAL VACUUM QUALIFICATION TESTS ON A TELDIX DOUBLE-GIMBALED MOMENTUM WHEEL
AUTHORS......: TODD, M. J. / WILSON, N. G.
ORGANIZATION: NATIONAL CENTRE OF TRIBOLOGY
ADDRESS......: RISLEY, ENGLAND
SOURCE.......: ESRO-EST-1; ESRO-CR(P)-566
CONTRACT #...: ESTEC-1560/72
PUBL. DATE..: AUG 1974
KEYWORDS.....: FLYWHEEL/SATELLITE/POWER SUPPLY/UTILITIES/FLYWHEEL TESTING/SPACE CRAFT

235
TITLE.......: QUALIFICATION AND LIFE TESTING OF A BALL-BEARING FLYWHEEL
AUTHORS......: TELDIX LUFTFAHRT-AUSRUHESTUNGS G.M.B.H.
ORGANIZATION: TELDIX LUFTFAHRT-AUSRUHESTUNGS G.M.B.H.
ADDRESS......: HEIDELBERG, WEST GERMANY

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ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

235 TITLE........: QUALIFICATION AND LIFE TESTING OF A BALL-BEARING FLYWHEEL (CONTD.)
SOURCE.......: ESRO-CR(P)-549
CONTRACT #:...: ESTEC-1701/72-AA
PUBL. DATE.: NOV 11 1974
TYPE.........: FINAL REPORT

KEYWORDS.....: FLYWHEELS/FLYWHEEL TESTING/LUBRICANT SYSTEMS

236 TITLE........: APPLICATION SPIRAL-GROOVE BEARINGS ON SPACECRAFT
AUTHORS.......: VANDERWAL, U.
ORGANIZATION: HOLLANDSE SIGNAALAPPARATEN B. V.
ADDRESS......: HENGelo, Netherlands
SOURCE.......: CONF-THE EUROPEAN SPACE TRIBOLOGY SYMPO., FRASCATI, ITALY
PUBL. DATE.: APR 09 1975

KEYWORDS.....: GREASEBEAR/SPIRAL-GROOVE BEARING/TEMPERATURE EFFECTS/FLYWHEELS

237 TITLE........: STUDY OF DOUBLE GIMBALED MOMENTUM WHEELS IN THE ATTITUDE AND ORBIT CONTROL SYSTEM OF A GEOSTATIONARY COMMUNICATION SATELLITE.
AUTHORS.......: BOERSMA, G. / SONNENSCHEIN, F. J.
SOURCE.......: CONTRACT NIVR-1765, (NLR-TR-75056-U) AVAIL NTIS HC $4.50
PUBL. DATE.: APR 24 1975

KEYWORDS.....: FLYWHEELS/ATTITUDE CONTROL/SPACECRAFT

238 TITLE........: MAGNETICALLY SUSPENDED LARGE MOMENTUM WHEEL
AUTHORS.......: SABNIS, A. V. / DENDY, J. B. / SCHMITT, F. M.
SOURCE.......: J. SPACECRAFT AND ROCKETS 12, 420 (JULY 1975)
PUBL. DATE.: JUL 1975

KEYWORDS.....: FLYWHEEL/FLYWHEEL TESTING/SPACECRAFT/MAGNETICALLY SUSPENDED FLYWHEEL

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IV FLYWHEELS IN AIRCRAFT AND SPACECRAFT

239 TITLE........: DESIGN AND TEST OF A FLYWHEEL ENERGY STORAGE UNIT FOR SPACECRAFT APPLICATION.
AUTHORS........: CORMACK, A. / NOTTI, J. E. / RUIZ, M. L.
SOURCE.........: IECEC '75 RECORD, P. 1275
PUBL. DATE.....: AUG 18 1975
CONFERENCE....: INTERSOCIETY ENERGY CONVERSION AND ENGINEERING CONF., 10TH.
LOCATION......: NEWARK, DEL.
DATE...........: AUGUST 18-22, 1975
KEYWORDS.......: ENERGY STORAGE

240 TITLE........: DESIGN AND TESTING OF AN ENERGY FLYWHEEL FOR AN INTEGRATED POWER/ATTITUDE CONTROL SYSTEM (IPACS)
AUTHORS........: NOTTI, J. E. / CORMACK, A.
SOURCE.........: AIAA PAPER NO. 75-1107
PUBL. DATE.....: AUG 20 1975
CONFERENCE....: AIAA GUIDANCE AND CONTROL CONFERENCE
LOCATION......: BOSTON, MASS.
DATE...........: AUGUST 20-22, 1975
KEYWORDS.......: FLYWHEEL/SPACE CRAFT/POWER SUPPLY
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241 TITLE........: RESEARCH AND DEVELOPMENT PROGRAMS. QUARTERLY PROGRESS REPORT, 1 JAN. -- 31 MAR. 1971
AUTHORS.......: NOYES, C. F. / WALKER, R. E. / PIRKLE, J.C. / FRAZER, R. / RUBINSTEIN, N.
ORGANIZATION: JOHNS HOPKINS UNIV., APPLIED PHYSICS LAB.
ADDRESS.......: SILVER SPRINGS, MD.
SOURCE.......: AD-735869
PUBL. DATE....: MAR 31 1971
TYPE.........: REPORT
KEYWORDS.....: CARBON DIOXIDE LASERS / CARBON MONOXIDE LASERS / ENERGY STORAGE / FLYWHEELS / MICROELECTRONICS / RESEARCH PROGRAMS

242 TITLE........: HEAT STORAGE USING ALKALI METAL SALTS, ALKALI EARTH SALTS, IRON CHLORIDE, ZINC CHLORIDE, BORON OXIDE, AND EUTECTIC FLUORIDE MIXTURES
AUTHORS.......: SCHROEDER, J.
SOURCE.......: CONFERENCE, SPEICHERSYSTEME FUR SEKUNDARENERGIE STUTTGART, GERMANY OCT. 2-3, 1974. VDI BER. 223, 67-72 (GER.)
PUBL. DATE....: 1974
PUBLISHER.....: VDI (VER.DTSCH.ING.)BER. 223
KEYWORDS.....: ENERGY STORAGE / LATENT HEAT / TRANSITION TEMPERATURE / HIGH TEMPERATURE / SALTS / EUTECTIC / COMPARISONS

243 TITLE........: ENERGY, VOLUME I. DEMANDS, RESOURCES, IMPACT, TECHNOLOGY, AND POLICY
AUTHORS.......: PENNER, S. S. / ICERMAN, L.
PUBL. DATE....: 1974
TYPE.........: BOOK COMPILATION OF LECTURE NOTES
PUBLISHER.....: ADDISON-WESLEY PUBLISHING COMPANY, INC. READING, PA

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ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

V OVERVIEW OF ENERGY RESOURCES

244 TITLE........: GOVERNMENT-WIDE REPORT TO OFFICE ON MANAGEMENT AND BUDGET ON ENERGY STORAGE R AND D PROGRAM STRATEGIES AND IMPLEMENTATION PLANS
AUTHORS........: ERDA/DAT
ORGANIZATION: USAEC DIVISION OF APPLIED TECHNOLOGY
ADDRESS.......: WASHINGTON, D.C.
SOURCE........: TID--26751
PUBL. DATE....: JUN 01 1974
CATEGORY.......: ADMINISTRATION ENERGY CONVERSION ENERGY SOURCES

245 TITLE........: STORAGE OF HIGH-GRADE ENERGY
AUTHORS........: MCALLAN, J.V.
ORGANIZATION: NATIONAL MEASUREMENT LAB.
ADDRESS.......: SYDNEY, AUSTRALIA
SOURCE........: SEARCH 5, 9, 418-423
PUBL. DATE....: SEP 1974

KEYWORDS.......: ELECTRIC BATTERIES / FLYWHEELS / HEAT STORAGE/HYDROGEN/OFF-PEAK ENERGY STORAGE/PUMPED STORAGE/REVIEWS/TIDAL POWER5/

246 TITLE........: NINTH WORLD ENERGY CONFERENCE, BRIEF SUMMARY
AUTHORS........: LUCCHINI, A. P.
SOURCE........: REV. ELECTROTEC. 60, 6, NOV-DEC 1974
PUBL. DATE....: NOV 1974

KEYWORDS.......: EFFICIENCY/ ENERGY CONSUMPTION/ ENERGY SOURCES/ ENERGY STORAGE/FLYWHEELS/FUEL CELLS/GEOTHERMAL ENERGY CONVERSION/MHD GENERATORS/SOLAR ENERGY CONVERSION
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

V OVERVIEW OF ENERGY RESOURCES

247 TITLE........: ENERGY TECHNOLOGY II (NAVY APPLICATIONS)
AUTHORS.......: PETZRICK, P.A.
EDITOR.......: SULLIVAN, T.F.P. (ED.)
ORGANIZATION: GOVERNMENT INSTITUTES, INC.
ADDRESS.......: WASHINGTON, DC
SOURCE.......: ENERGY TECHNOLOGY II, PROCEEDINGS OF THE 2ND ENERGY
TECHNOLOGY CONFERENCE
PUBL. DATE....: 1975
CONFERENCE....: 2ND ENERGY TECHNOLOGY CONFERENCE (2) = (2ND)
LOCATION.....: WASHINGTON, DC
DATE..........: 12 MAY 1975
KEYWORDS.....: AIRCRAFT / BUDGETS / COMPRESSED AIR / CRYOGENICS / DEMAND
FACTORS / ENERGY CONSERVATION / ENERGY POLICY / ENERGY SOURCES /
ENERGY STORAGE / FLYWHEELS / LOW TEMPERATURE / MILITARY
EQUIPMENT / RESEARCH PROGRAMS / SEAS / SHIPS / SOLAR ENERGY / US
ERDA / VEHICLES / WIND POWER / ENERGY STORAGE / NAVY / COMPRESSED
AIR / LOW TEMPERATURE THERMAL / FLYWHEEL / SOLAR / WIND
POWER / OCEAN POWER.

248 TITLE........: ENERGY--STORAGE SYSTEMS
AUTHORS.......: PENNER, S. S. / ICERMAN, L.
SOURCE.......: ENERGY VOL. 11, P. 211
PUBL. DATE....: 1975
TYPE..........: BOOK
PUBLISHER.....: ADDISON-WESLEY PUBL. CO., READING, MA., 1975
KEYWORDS.....: CAPACITORS / COMPRESSED AIR / DESIGN / ECONOMICS / ELECTRIC
BATTERIES / ENERGY STORAGE / FLYWHEELS / HEAT STORAGE /
LIQUEFIED NATURAL GAS / NATURAL GAS / PETROLEUM / PROPULSION /
PUMPED STORAGE / REVIEWS / STORAGE / THERMAL ENERGY
STORAGE / MECHANICAL ENERGY STORAGE / ELECTRICAL-ENERGY
STORAGE / PUMPED-HYDRAULIC / COMPRESSED AIR / LIQUID
PETROLEUM / NATURAL GAS /
FLYWHEELS / ECONOMICS / BATTERIES / VEHICLES / UTILITIES

249 TITLE........: WIND POWER
SUBTITLE......: A SIGNIFICANT SOLAR ENERGY RESOURCE
AUTHORS.......: HERONEMUS, W.E.
V OVERVIEW OF ENERGY RESOURCES

249 TITLE........: WIND POWER (CONT'D.)
ORGANIZATION: UNIV. OF MASSACHUSETTS
ADDRESS.......: AMHERST MASS
SOURCE........: SPEECH AMERICAN CHEMICAL SOCIETY, APRIL 1975, PHILADELPHIA
PUBL. DATE....: JUN 1975
PUBLISHER.....: AWARE 57
CATEGORY......: POSSIBLE STORAGE SYSTEMS
KEYWORDS......: WIND POWER/SOLAR ENERGY/FLYWHEEL/UTILITIES/ENERGY STORAGE

250 TITLE........: MATERIALS REQUIREMENTS FOR ENERGY GENERATION, CONVERSION, AND STORAGE
AUTHORS.......: JAFFEE, R.I.
ORGANIZATION: ELECTRIC POWER RESEARCH INST.
ADDRESS.......: PALO ALTO, CA
SOURCE.......: AM. CERAM. SOC. BULL. 54 7, 657
PUBL. DATE....: JUL 1975
CONFERENCE....: AMERICAN CERAMIC SOCIETY'S JOINT FALL MEETING OF THE ELECTRONICS DIVISION AND THE NATIONAL INSTITUTE OF CERAMIC ENGINEERS
LOCATION.....: DENVER, CO
DATE..........: 18 SEP 1974

251 TITLE........: ENERGY STORAGE
AUTHORS.......: KALHAMMER, F. R. / SCHNEIDER, T. R.
ORGANIZATION: ELECTRIC POWER RESEARCH INST., PALO ALTO, CALIFORNIA /
PUBLIC SERVICE ELECTRIC AND GAS CO., NEWARK, N.J.
SOURCE........: (311)=(311-43, ED. HOLLANDER, J.M.)
PUBL. DATE....: 1976
TYPE..........: SURVEY REPORT
V OVERVIEW OF ENERGY RESOURCES

251 TITLE........: ENERGY STORAGE (CONTD.)
KEYWORDS.......: ENERGY STORAGE/HYDROELECTRIC/ELECTRIC VEHICLES/UTILITIES/COMBUSTION TURBINES/TURBINES/BATTERIES/SPACE HEATING/OFF-PEAK POWER/SOLAR
POWER/ECONOMICS/TAXING/HYDROGEN/SUPERCONDUCTING MAGNETS

252 TITLE........: ENERGY STORAGE
AUTHORS........: AMERICAN NUCLEAR SOCIETY, HINSDALE, ILL.
SOURCE........: PRESENTED AT AMER. NUCL. SOC. CONF. ON ENV. ASPECTS OF NONCONVENTIONAL ENERGY SOURCES, DENVER, COL.
PUBL. DATE.....: FEB 28 1976
CONFERENCE.....: CONF. ON ENVIRONMENTAL ASPECTS OF NONCONVENTIONAL ENERGY SOURCES, DENVER, COL.

253 TITLE........: ENERGY AND TECHNOLOGY REVIEW (MONTHLY PROGRESS REPORT 6/76)
AUTHORS........: Selden, R. W.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA. 94550
SOURCE..........: UCRL-52200-76-6
PUBL. DATE......: JUN 1976
254 TITLE........: SOME INTERESTING ASPECTS OF GENERAL LINEAR VISCOELASTIC DEFORMATION
AUTHORS........: CHRISTENSEN, R. M. / GOTTENBERG, W. G.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
PUBL. DATE......: 1963
TYPE...........: JOURNAL
CATEGORY.......: MECHANICS

255 TITLE........: VIBRATION OF A 45-DEG. RIGHT TRIANGLE CANTILEVER PLATE BY A GRIDWORK METHOD.
AUTHORS..........: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS..........: LIVERMORE, CA 94550
SOURCE..........: AIAA JOURNAL 1, 1790 (1963).
PUBL. DATE.......: 1963
TYPE...........: JOURNAL
CATEGORY........: MECHANICS

256 TITLE........: AN EXPERIMENT FOR DETERMINATION OF THE MECHANICAL PROPERTY IN SHEAR FOR A LINEAR ISOTROPIC VISCOELASTIC SOLID.
AUTHORS..........: CHRISTENSEN, R. M. / GOTTENBERG, W. G.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS..........: LIVERMORE, CA 94550
SOURCE..........: INTERNATIONAL J. OF ENGINEERING SCIENCE 2, 45 (1964).
PUBL. DATE.......: 1964
TYPE...........: JOURNAL
CATEGORY.........: MECHANICS

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257 TITLE........: THE DYNAMIC RESPONSE OF A SOLID, VISCOELASTIC SPHERE TO TRANSLATIONAL AND ROTATIONAL EXCITATION.
AUTHORS........: CHRISTENSEN, R. M. / GOTTENBERG, W. G.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
PUBL. DATE......: 1964
TYPE...........: JOURNAL
CATEGORY.......: MECHANICS

258 TITLE........: A FRACTURE CRITERION FOR ORTHOTROPIC PLATES UNDER THE INFLUENCE OF COMPRESSION AND SHEAR
AUTHORS........: WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
SOURCE.........: DEPT. OF THEORETICAL AND APPLIED MECHANICS REPORT 283,
UNIVERSITY OF ILLINOIS (1965).
PUBL. DATE......: 1965
TYPE...........: REPORT
CATEGORY.......: MECHANICS

259 TITLE........: CRACK EXTENSION IN FIBERGLASS-REINFORCED PLASTICS
AUTHORS........: WU, E. M. / REUTER, R. C.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
SOURCE.........: DEPT. OF THEORETICAL AND APPLIED MECHANICS REPORT 275,
UNIVERSITY OF ILLINOIS (1965).
PUBL. DATE......: 1965
TYPE...........: REPORT
CATEGORY.......: MECHANICS
VI FIBER COMPOSITE PROPERTIES

260 TITLE........: PREDICTION OF THE TRANSIENT RESPONSE OF A LINEAR VISCOELASTIC SOLID.
AUTHORS........: CHRISTENSEN, R. M. / GOTTENBERG, W. G.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
PUBL. DATE.....: 1966
TYPE..........: JOURNAL
CATEGORY......: MECHANICS

261 TITLE........: DESIGN FOR COMMERCIAL FILAMENT WINDING
AUTHORS........: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: SOCIETY OF PLASTICS ENGINEERS JOURNAL, P. 43 (APRIL, 1966)
PUBL. DATE.....: APR 1966
TYPE..........: JOURNAL
CATEGORY......: FIBER COMPOSITES
KEYWORDS......: FIBER COMPOSITES/FILAMENT WINDING

262 TITLE........: APPLICATION OF FRACTURE MECHANICS TO ANISOTROPIC PLATES
AUTHORS........: WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: J. OF APPLIED MECHANICS, TRANSACTIONS OF ASME. 34E:4 (1967)
PUBL. DATE.....: 1967
TYPE..........: JOURNAL
CATEGORY......: MECHANICS
VI FIBER COMPOSITE PROPERTIES

263 TITLE : APPLICATION OF THE METHOD OF TIME-DEPENDENT BOUNDARY CONDITIONS IN LINEAR VISCOELASTICITY.
AUTHORS : CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS : LIVERMORE, CA 94550
PUBL. DATE : 1967
TYPE : JOURNAL
CATEGORY : MECHANICS

264 TITLE : LINEAR NON-ISOTHERMAL VISCOELASTIC SOLIDS
AUTHORS : CHRISTENSEN, R. M. / NAGHDI, P. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS : LIVERMORE, CA 94550
PUBL. DATE : 1967
TYPE : JOURNAL
CATEGORY : MECHANICS

265 TITLE : THE TEMPERATURE EFFECT OF INTERNAL AND EXTERNAL PRESSURE OF TWO ANGLE WOUND PIPE
AUTHORS : CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS : LIVERMORE, CA 94550
SOURCE : THE SOCIETY OF THE PLASTICS INDUSTRY, INC./ SECTION 20-C
PUBL. DATE : FEB 1967
TYPE : PROCEEDING
CATEGORY : FIBER COMPOSITES
KEYWORDS : FIBER COMPOSITES/FILAMENT WINDING/HIGH TEMPERATURE
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

266 TITLE:........: FRACTURE MECHANICS OF ANISOTROPIC PLATES
AUTHORS:.........: WU, E. M.
ORGANIZATION: Lawrence Livermore Laboratory
ADDRESS:.......: Livermore, CA 94550
SOURCE:.......: Composite Materials Workshop, Technomic Publishing Co.
PUBL. DATE:...: 1968
TYPE:.........: BOOK
CATEGORY:.....: MECHANICS

267 TITLE:........: DISCONTINUOUS MODE OF CRACK EXTENSION IN UNIDIRECTIONAL COMPOSITES
AUTHORS:.......: WU, E. M.
ORGANIZATION: Lawrence Livermore Laboratory
ADDRESS:......: Livermore, CA 94550
PUBL. DATE:...: 1968
TYPE:........: REPORT
CATEGORY:....: MECHANICS

268 TITLE:........: ON OBTAINING SOLUTIONS IN NONLINEAR VISCOELASTICITY.
AUTHORS:........: CHRISTENSEN, R. M.
ORGANIZATION: Lawrence Livermore Laboratory
ADDRESS:.......: Livermore, CA 94550
PUBL. DATE:...: 1968
TYPE:.........: JOURNAL
CATEGORY:.....: MECHANICS
VI FIBER COMPOSITE PROPERTIES

269 TITLE: VARIATIONAL AND MINIMUM THEOREMS FOR THE LINEAR THEORY OF VISCOELASTICITY
AUTHORS: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS: LIVERMORE, CA 94550
PUBL. DATE: 1968
TYPE: JOURNAL
CATEGORY: MECHANICS

270 TITLE: OFF-AXIS TEST OF A COMPOSITE
AUTHORS: WU, E. M. / THOMAS, R. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS: LIVERMORE, CA 94550
PUBL. DATE: OCT 1968
TYPE: JOURNAL
CATEGORY: MECHANICS

271 TITLE: CHARACTERIZATION OF ANISOTROPIC COMPOSITES
AUTHORS: HALPIN, J. C. / PAGANO / WHITNEY / WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS: LIVERMORE, CA 94550
PUBL. DATE: 1969
TYPE: REPORT
CATEGORY: MECHANICS

272 TITLE: SOME UNIQUE CRACK PROPAGATION PHENOMENA IN UNIDIRECTIONAL COMPOSITES AND THEIR MATHEMATICAL CHARACTERIZATION

89
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS  
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY  

VI FIBER COMPOSITE PROPERTIES

272  TITLE........: SOME UNIQUE CRACK PROPAGATION PHENOMENA IN UNIDIRECTIONAL (CONTD.)  
     AUTHORS........: WU, E. M.  
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY  
     ADDRESS........: LIVERMORE, CA 94550  
     SOURCE........: PROCEEDINGS OF THE INTERNATIONAL CONFERENCE ON STRUCTURES,  
                     SOLID MECHANICS AND ENGINEERING DESIGN, SOUTHAMPTON, ENG.  
     PUBL. DATE.....: 1969  
     TYPE...........: PROCEEDINGS  
     CATEGORY.......: MECHANICS

273  TITLE........: INTERFACIAL FRACTURE PHENOMENA  
     AUTHORS........: WU, E. M. / THOMAS, R. L.  
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY  
     ADDRESS........: LIVERMORE, CA 94550  
     SOURCE........: PROCEEDINGS OF THE FIFTH INTERNATIONAL CONGRESS ON RHEOLOGY,  
                     KYOTO, JAPAN, 1969.  
     PUBL. DATE.....: 1969  
     TYPE...........: PROCEEDINGS  
     CATEGORY.......: MECHANICS

274  TITLE........: VISCOELASTIC PROPERTIES OF HETEROGENEOUS MEDIA  
     AUTHORS........: CHRISTENSEN, R. M.  
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY  
     ADDRESS........: LIVERMORE, CA 94550  
     PUBL. DATE.....: 1969  
     TYPE...........: JOURNAL  
     CATEGORY.......: MECHANICS

275  TITLE........: A RANDOM WALK MODEL IN RANDOM VIBRATION  
     AUTHORS........: TOLAND, R. H. / YANG, C. Y.
VI FIBER COMPOSITE PROPERTIES

275 TITLE........: A RANDOM WALK MODEL IN RANDOM VIBRATION (CONT'D.)
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: PREPRINT 869, ASCE NATIONAL MEETING ON STRUCTURAL
               ENGINEERING, LOUISVILLE, KY, APRIL 1969.
PUBL. DATE....: APR 1969
TYPE..........: PREPRINT
CATEGORY.....: MECHANICS

276 TITLE........: EVALUATION OF HIGH-STRENGTH, HIGH-MODULUS BERYLLIUM OXIDE/
                  GLASS FIBER
AUTHORS........: CHIAO, T. T./ LEWIS, A./KIMPLE, R. F.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: LAWRENCE LIVERMORE LABORATORY REPORT, UCID-15593, (DEC., 196
               DEC. 1969
TYPE..........: REPORT
CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/FIBER STRENGTH

277 TITLE........: A TENSILE TEST METHOD FOR FIBERS
AUTHORS........: CHIAO, T. T./MOORE, R. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: JOURNAL OF COMPOSITE MATERIALS, VOL. 4 P. 118, (JAN./ 1970)
PUBL. DATE....: JAN 1970
TYPE..........: JOURNAL
CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/TENSILE STRENGTH/STRENGTH TESTING

91
VI FIBER COMPOSITE PROPERTIES

278  TITLE........: AXISYMMETRIC FILAMENTARY STRUCTURES
     AUTHORS......: FRASER, A. F. / PREISWERK, P. R. / BENSON, M. D. / BURG-GRAP, O. R.
     PUBL. DATE...: APR 1970
     TYPE.........: REPORT

279  TITLE........: A GENERAL THEORY OF STRENGTH FOR ANISOTROPIC MATERIALS
     AUTHORS......: TSAI, S. W. / WU, E. M.
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
     ADDRESS......: LIVERMORE, CA 94550
     PUBL. DATE...: 1971
     TYPE.........: JOURNAL
     CATEGORY.....: MECHANICS

280  TITLE........: MEASUREMENT AND CONTROL OF DYNAMIC CRACKS IN COMPOSITES.
     AUTHORS......: BRISSEY, F. L. / WU, E. M.
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
     ADDRESS......: LIVERMORE, CA 94550
     SOURCE.......: PROCEEDINGS OF ASME-SESA SYMPOSIUM ON EXPERIMENTAL MECHANICS (1971).
     PUBL. DATE...: 1971
     TYPE.........: PROCEEDINGS
     CATEGORY.....: MECHANICS

281  TITLE........: FRACTURE CRITERIA FOR ORTHOTROPIC PLATE UNDER COMPRESSION AND SHEAR
     AUTHORS......: WU, E. M.
281 TITLE........: FRACTURE CRITERIA FOR ORTHOTROPIC PLATE UNDER COMPRESSION (CONT'D.)
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
PUBL. DATE...: 1971
TYPE.........: PROCEEDINGS
CATEGORY.....: MECHANICS

282 TITLE........: THEORY OF VISCOELASTICITY: AN INTRODUCTION
AUTHORS.......: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: ACADEMIC PRESS, 1971.
PUBL. DATE....: 1971
TYPE.........: BOOK
CATEGORY.....: MECHANICS

283 TITLE........: THE EFFECT OF SOLVENTS AND STRESS ON THE STRESS RUPTURE LIFE OF EPOXY-Glass COMPOSITES
AUTHORS.......: RUHMANN, D. C. / WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
PUBL. DATE....: 1971
TYPE.........: JOURNAL
CATEGORY.....: COMPOSITE PROPERTIES

284 TITLE........: STRESS-RUPTURE OF S-Glass/EPoxy MULTIFILAMENT STRANDS
AUTHORS.......: CHIAO, T. T./MOORE, R. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
VI FIBER COMPOSITE PROPERTIES

284 TITLE........: STRESS-RUPTURE OF S-GLASS/EPoxy MULTIFILAMENT STRANDS (CONT'D.)
ADDRESS.......: LIVERMORE, CA 94550
SOURCE.........: JOURNAL COMPOSITES MATERIALS VOL. 5 P. 2 (JAN./ 1971)
PUBL. DATE....: JAN 1971
TYPE..........: JOURNAL
CATEGORY......: FIBER COMPOSITES
KEYWORDS......: FIBER COMPOSITES/STRESS RUPTURE/MULTIFILAMENT

285 TITLE........: STRAIN RATE EFFECT ON THE ULTIMATE TENSILE STRESS OF FIBER/EPoxy STRANDS
AUTHORS........: CHIAO, T. T./MOORE, R. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE.........: JOURNAL COMPOSITES MATERIALS VOL. 5, P. 124, (JAN., 1971)
PUBL. DATE....: JAN 1971
TYPE..........: JOURNAL
CATEGORY......: FIBER COMPOSITES
KEYWORDS......: FIBER COMPOSITES/STRAIN RATE EFFECT/UNIDIRECTIONAL COMPOSITES

286 TITLE........: COMPUTER AIDED MECHANICAL TESTING OF COMPOSITES
AUTHORS........: WU, E. M. / JERINA, K. J.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE.........: J. OF MATERIALS AND STANDARDS (FEB. 1971).
PUBL. DATE....: FEB 1971
TYPE..........: JOURNAL
CATEGORY......: MECHANICS
VI FIBER COMPOSITE PROPERTIES

287 TITLE: Fracture Toughness in Unidirectional Glass-Reinforced Plastics
AUTHORS: Sanford, R. J. / Stonesifer, F. R.
PUBL. DATE: APR 1971
TYPE: JOURNAL

288 TITLE: Study of Epoxy Resins for Fiber Composites
AUTHORS: Richardson, J. / Moore, R. L. / Chiao, T. T.
ORGANIZATION: Lawrence Livermore Laboratory
ADDRESS: Livermore, CA 94550
SOURCE: Lawrence Livermore Laboratory Report UCID-15857, (June, 1971)
PUBL. DATE: JUN 1971
TYPE: REPORT
CATEGORY: FIBER COMPOSITES
KEYWORDS: FIBER COMPOSITES/TENSILE STRENGTH/CRYOGENIC APPLICATIONS

289 TITLE: A Random Walk Model for First-Passage Probability
AUTHORS: Toland, R. H. / Yang, C. Y.
ORGANIZATION: Lawrence Livermore Laboratory
ADDRESS: Livermore, CA 94550
PUBL. DATE: JUN 1971
TYPE: JOURNAL
CATEGORY: MECHANICS

290 TITLE: Kinetic Failure Processes of Polymers
AUTHORS: Wu, E. M. / Halpin, J. C.
VI FIBER COMPOSITE PROPERTIES

290 TITLE........: KINETIC FAILURE PROCESSES OF POLYMERS (CONT'D.)
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: AMERICAN PHYSICAL SOCIETY, DIV. OF HIGH POLYMER PHYSICS,
                1972.
PUBL. DATE...: 1972
CATEGORY.....: MECHANICS

291 TITLE........: STRENGTH TENSORS AND THEIR INVARIANTS - THEORY AND
                  EXPERIMENT
AUTHORS.......: WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: (BRITISH) J. OF PHYSICS D (1972).
PUBL. DATE...: 1972
TYPE.........: JOURNAL
CATEGORY.....: MECHANICS

292 TITLE........: EFFECTIVE STIFFNESS OF RANDOMLY ORIENTED FIBRE COMPOSITES
AUTHORS.......: CHRISTENSEN, R. M. / WAALS, F. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: J. OF COMPOSITE MATERIALS 6, 518 (1972).
PUBL. DATE...: 1972
TYPE.........: JOURNAL
CATEGORY.....: MECHANICS

293 TITLE........: RESTRICTIONS UPON VISCOELASTIC RELAXATION FUNCTIONS AND
                  COMPLEX MODULI.
AUTHORS.......: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

293 TITLE.......: RESTRICTIONS UPON VISCOELASTIC RELAXATION FUNCTIONS AND (CONTD.)
ADDRESS.......: LIVERMORE, CA 94550
SOURCE.......: TRANS. SOCIETY OF RHEOLOGY 16, 603 (1972).
PUBL. DATE....: 1972
TYPE..........: JOURNAL
CATEGORY......: MECHANICS

294 TITLE.......: EXPERIMENTAL INVESTIGATION OF FRACTURE IN AN ADVANCED FIBER COMPOSITE
AUTHORS.......: KONISH, H. J. / SWEDLOW, J. L. / CRUSE, T. A.
SOURCE.......: J. COMPOSITE MATERIALS, V. 6, 114 (1972).
PUBL. DATE....: 1972
TYPE..........: JOURNAL

295 TITLE.......: STRENGTH RETENTION OF S-GLASS/EPOXY COMPOSITES
AUTHORS.......: CHIAO, T. T./ MOORE, R. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE.......: JOURNAL COMPOSITE MATERIALS, VOL. 6 P. 156, (JAN./ 1972)
PUBL. DATE....: JAN 1972
TYPE..........: JOURNAL
CATEGORY......: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/STRENGTH RETENTION

296 TITLE.......: FABRICATION AND TESTING OF EPOXY TENSILE SPECIMENS
AUTHORS.......: CHIAO, T. T./ CUMINS, A. D./MOORE, R. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE.......: COMPOSITES, P. 10 (JAN/FEB./ 1972)
PUBL. DATE....: JAN 1972
VI FIBER COMPOSITE PROPERTIES

296  TITLE........: FABRICATION AND TESTING OF EPOXY TENSILE SPECIMENS (CONTD.)
     TYPE.........: JOURNAL
     CATEGORY.....: FIBER COMPOSITES
     KEYWORDS.....: FIBER COMPOSITES/TENSILE PROPERTIES/TESTING METHODS

297  TITLE........: OPTIMAL EXPERIMENTAL MEASUREMENT OF ANISOTROPIC FAILURE TENSORS
     AUTHORS......: WU, E. M.
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
     ADDRESS.......: LIVERMORE, CA 94550
     SOURCE.......: J. OF COMPOSITE MATERIALS (JA. 1972).
     PUBL. DATE...: JAN 1972
     TYPE.........: JOURNAL
     CATEGORY.....: MECHANICS

298  TITLE........: ANALYSIS OF STRESS-RUPTURE DATA FROM S-GLASS COMPOSITES
     AUTHORS......: ROBINSON, E. Y./CHIAO, T. T.
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
     ADDRESS.......: LIVERMORE, CA 94550
     SOURCE.......: PROC. 27TH ANNUAL CONFERENCE, SPI REINFORCED PLASTIC/COMPOS
     PUBL. DATE...: FEB 1972
     TYPE.........: PROCEEDINGS
     CATEGORY.....: FIBER COMPOSITES
     KEYWORDS.....: FIBER COMPOSITES/STRENGTH RETENTION/STRESS RUPTURE

299  TITLE........: STRENGTH OF S-GLASS FIBER
     AUTHORS......: CHIAO, T. T./MOORE, R. L.
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
     ADDRESS.......: LIVERMORE, CA 94550
VI FIBER COMPOSITE PROPERTIES

299 TITLE........: STRENGTH OF S-GLASS FIBER (CONTD.)
SOURCE........: SAMPE QUARTERLY, VOL. 3, NO. 3, (APRIL, 1972)
PUBL. DATE....: APR 1972
TYPE..........: JOURNAL

CATEGORY....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/STRENGTH/FILAMENT WINDING

300 TITLE........: STRESS RUPTURE OF S-GLASS/EPoxy MULTIFILAMENT STRANDS: TIME-BREAK-DATA.
AUTHORS........: CHIAO, T. T./MOORE, R. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: LAWRENCE LIVERMORE LAB. REPORT UCRL-51220 (MAY 2, 1972).
PUBL. DATE....: MAY 02 1972
TYPE..........: REPORT

CATEGORY....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/STRESS RUPTURE/CALCULATIONS

301 TITLE........: FAILURE MODES IN IMPACT LOADED COMPOSITE MATERIALS
AUTHORS........: TOLAND, R. H.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: AIME FAILURE MODES IN COMPOSITES SYMPOSIUM, BOSTON, MA, MAY 8-11, 1972.
PUBL. DATE....: MAY 11 1972
TYPE..........: PRESENTED PAPER

CATEGORY....: MECHANICS

302 TITLE........: STRESS-RUPTURE OF SIMPLE S-GLASS/EPOXY COMPOSITES
AUTHORS........: CHIAO, T. T./LEPPER, J. K./HETHERINGTON, N.W./MOORE, R. L.
VI FIBER COMPOSITE PROPERTIES

302 TITLE........: STRESS-RUPTURE OF SIMPLE S-GLASS/EPOXY COMPOSITES (CONTD.)
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: J. OF COMPOSITES MATERIALS, VOL. 6, P. 358 (JULY 1972)
PUBL. DATE.....: JUL 1972
TYPE..........: JOURNAL

CATEGORY.......: FIBER COMPOSITES
KEYWORDS.......: FIBER COMPOSITES/STRESS RUPTURE/CALCULATIONS

303 TITLE........: NON-STATIONARY RANDOM VIBRATION OF NONLINEAR STRUCTURES
AUTHORS........: TOLAND, R. H./ YANG, C. Y./ HSU, C. S.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE..........: INTERNATIONAL J. OF NONLINEAR MECHANICS 7, NO. 9 (AUG. 1972)
PUBL. DATE.....: AUG 1972
TYPE...........: JOURNAL

CATEGORY.......: MECHANICS

304 TITLE........: DESIGN AND ANALYSIS OF THE ATS GRAPHITE EPOXY SATELLITE TRUSS
AUTHORS........: BURNS, J. M./ TOLAND, R. H.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE..........: CONFERENCE ON FIBROUS COMPOSITES IN FLIGHT VEHICLE DESIGN,
                  DAYTON, OH, SEPT. 26, 1972.
PUBL. DATE.....: SEP 26 1972
TYPE...........: PRESENTED PAPER

CATEGORY.......: MECHANICS

305 TITLE........: TENSILE PROPERTIES OF PRD-49 FIBER IN EPOXY MATRIX
AUTHORS........: CHIAO, T. T./ MOORE, R. L.
VI FIBER COMPOSITE PROPERTIES

305  TITLE........: TENSILE PROPERTIES OF PRD-49 FIBER IN EPOXY MATRIX (CONT'D.)
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
     ADDRESS.....: LIVERMORE, CA 94550
     SOURCE......: J. OF COMPOSITE MATERIALS, VOL. 6, P. 547 (OCT./ 1972)
     PUBL. DATE..: OCT 1972
     TYPE........: JOURNAL
     CATEGORY.....: FIBER COMPOSITES
     KEYWORDS.....: FIBER COMPOSITES/TENSILE STRENGTH/FILAMENT WINDING/
                    TEMPERATURE CHARACTERISTICS/STRAIN RATE

306  TITLE........: ACOUSTIC EMISSION FROM FILAMENT-WOUND PRESSURE BOTTLES
     AUTHORS.....: HAMSTAD, M. A.
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
     ADDRESS.....: LIVERMORE, CA 94550
     SOURCE......: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-73763
     PUBL. DATE..: OCT 1972
     TYPE........: REPORT
     CATEGORY.....: FIBER COMPOSITES

307  TITLE........: ACOUSTIC EMISSION FROM FILAMENT-WOUND PRESSURE BOTTLES
     AUTHORS.....: HAMSTAD, M. A.
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
     ADDRESS.....: LIVERMORE, CA 94550
     SOURCE......: PROCEEDINGS OF THE 4TH NATIONAL SAMPE TECHNICAL CONFERENCE,
                   PALO ALTO, CA, OCT. 1972.
     PUBL. DATE..: OCT 1972
     TYPE........: PROCEEDINGS
     CATEGORY.....: COMPOSITE PRESSURE VESSEL TECHNOLOGY

308  TITLE........: FIBER STRENGTH OF S-GLASS/EPOXY COMPOSITES UNDER BI-AXIAL
                    LOADING
VI FIBER COMPOSITE PROPERTIES

308 TITLE........: FIBER STRENGTH OF S-GLASS/EPOXY COMPOSITES UNDER BI-AXIAL (CONTD.)
AUTHORS........: CHIAO, T. T./COMINS, A.D.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
SOURCE.........: PROC. 4TH NATIONAL SAMPE TECHNICAL CONFERENCE, OCT. 17-19, 1972
PUBL. DATE.....: OCT 17 1972
TYPE...........: PROCEEDINGS
CATEGORY.......: FIBER COMPOSITES
KEYWORDS.......: FIBER COMPOSITES/UNIAXIAL TENSION/FIBER PROPERTIES

309 TITLE........: CHARACTERIZATION OF AN EPOXY SYSTEM FOR FILAMENT WINDING
AUTHORS........: CHIAO, T. T./ALTHOUSE, L. P.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
SOURCE.........: PROC. 4TH NATIONAL SAMPE TECHNICAL CONFERENCE, OCT. 17-19, 1972
PUBL. DATE.....: OCT 17 1972
TYPE...........: PROCEEDINGS
CATEGORY.......: FIBER COMPOSITES
KEYWORDS.......: FIBER COMPOSITES/TENSILE STRENGTH/CURE OF EPXIES

310 TITLE........: FAILURE CRITERIA AND FAILURE ANALYSIS OF COMPOSITE STRUCTURES
AUTHORS........: TOLAND, R. H./VICARIO, A. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
PUBL. DATE.....: 1973
TYPE...........: BOOK CONTRIBUTION
CATEGORY.......: MECHANICS
VI FIBER COMPOSITE PROPERTIES

311 TITLE........: DATA AVERAGING OF ANISOTROPIC MATERIAL CONSTANTS
AUTHORS........: WU, E. M. / JERINA, K. L. / LAVENGOOD, R. E.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
PUBL. DATE....: 1973
TYPE..........: JOURNAL
CATEGORY.....: MECHANICS

312 TITLE........: A CRITICAL TEST FOR A CLASS OF NONLINEAR CONSTITUTIVE EQUATIONS
AUTHORS........: CHRISTENSEN, R. M. / VAN ES, H. E.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: TRANS. SOCIETY OF RHEOLOGY 17, 325 (1973).
PUBL. DATE....: 1973
TYPE..........: JOURNAL
CATEGORY.....: MECHANICS

313 TITLE........: A SPECIAL THEORY OF VISCOELASTIC FLUIDS FOR APPLICATION TO SUSPENSION.
AUTHORS........: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
PUBL. DATE....: 1973
TYPE..........: JOURNAL
CATEGORY.....: MECHANICS

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VI FIBER COMPOSITE PROPERTIES

314 TITLE: ATTENUATION OF HARMONIC WAVES IN LAYERED MEDIA
AUTHORS: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS: LIVERMORE, CA 94550
SOURCE: J. OF APPLIED MECHANICS 40, 155 (1973)
PUBL. DATE: 1973
TYPE: JOURNAL
CATEGORY: MECHANICS

315 TITLE: THE EFFECT OF STRESS ON DIFFUSION IN COMPOSITES - EXPERIMENTAL OBSERVATIONS.
AUTHORS: RUHLMANN, D. C. / WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS: LIVERMORE, CA 94550
SOURCE: AMERICAN CHEMICAL SOCIETY, DIV. OF POLYMER CHEMISTRY 14, NO. 1 (1973)
PUBL. DATE: 1973
TYPE: JOURNAL
CATEGORY: COMPOSITE PROPERTIES

316 TITLE: ORGANIC FIBER/EPoxyIDE COMPOSITES
AUTHORS: CHIAO, T. T./MOORE, R. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS: LIVERMORE, CA 94550
PUBL. DATE: JAN 1973
TYPE: JOURNAL
CATEGORY: FIBER COMPOSITES
KEYWORDS: FIBER COMPOSITES/PROPERTY EVALUATION

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VI FIBER COMPOSITE PROPERTIES

317 TITLE........: FILAMENT-WOUND VESSEL FROM AN ORGANIC FIBER/EPoxy SYSTEM
AUTHORS........: CHIAO, T. T./MARCON, M. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: PROC. 28TH ANNUAL CONFERENCE, S.P.I. REINFORCED PLASTICS/
COMPOSITES INSTITUTE, WASHINGTON, D.C.,SECT. 9-B. FEB./1973
PUBL. DATE....: FEB 1973
TYPE..........: PROCEEDING
CATEGORY......: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/SHEAR LOADING/STRESS

318 TITLE........: STRESS-RUPTURE BEHAVIOR OF STRANDS OF AN ORGANIC
FIBER/EPoxy MATRIX
AUTHORS........: CHIAO, T. T./WELLS, J. E./MOORE, R. L./HAMSTAD, M. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: ASTM THIRD SYMPOSIUM ON COMPOSITE MATERIALS: TESTING AND
DESIGN, MARCH 21-22, 1973, WILLIAMSBURG, VIRGINIA, STP 546
PUBL. DATE....: MAR 21 1973
TYPE..........: PROCEEDINGS
CATEGORY......: FIBER COMPOSITES
KEYWORDS.....: STRESS RUPTURE/PRD-49-III EPOXY COMPOSITE/WEIBULL ANALYSIS

319 TITLE........: INSTRUMENTED IMPACT TESTING OF CARBON FIBER COMPOSITE
MATERIALS
AUTHORS........: TOLAND, R. H.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: ASTM SYMPOSIUM ON INSTRUMENTED IMPACT TESTING, PHILADELPHIA
PUBL. DATE....: JUN 1973
TYPE..........: PRESENTED PAPER
VI FIBER COMPOSITE PROPERTIES

319 TITLE.......: INSTRUMENTED IMPACT TESTING OF CARBON FIBER COMPOSITE (CONT'D.)
CATEGORY.....: MECHANICS

320 TITLE.......: ACOUSTIC EMISSION PRODUCED DURING BURST TESTS OF FILAMENT-
WOUND BOTTLES
AUTHORS......: HAMSTAD, M. A./CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
PUBL. DATE...: JUL 1973
TYPE.........: JOURNAL

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/NOISE DURING RUPTURE

321 TITLE.......: GRAPHITE FIBER/EPOXY COMPOSITES
AUTHORS......: CHIAO, T. T./MOORE, R. L./WALKUP, C. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.......: SAMPE QUARTERLY, VOL. 4, NO. 4, JULY, 1973
PUBL. DATE...: JUL 1973
TYPE.........: JOURNAL

CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/TENSILE STRENGTH/FIBER COMPARISON

322 TITLE.......: MATERIALS EVALUATION FOR 2X11B MAGNET
AUTHORS......: CHIAO, T. T./WALKUP, C. M./NEWY, H. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA 94550
SOURCE.......: LAWRENCE LIVERMORE LABORATORY REPORT, UCID-16340.
PUBL. DATE...: SEP 10 1973
TYPE.........: REPORT
VI FIBER COMPOSITE PROPERTIES

322 TITLE........: MATERIALS EVALUATION FOR 2XIIB MAGNET (CONTD.)
CATEGORY.......: FIBER COMPOSITES
KEYWORDS.......: FIBER COMPOSITES/TENSILE STRENGTH/COMPRESSIVE STRENGTH

323 TITLE........: FILAMENT-WOUND VESSELS FROM AN ORGANIC FIBER/EPOXY RESIN SYSTEM
AUTHORS.......: CHIAO, T. T./HAMSTAD, M. A./MARCON, M. A./HANAFEE, JR.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-51466 NOV. 1973
PUBL. DATE....: NOV 1973
TYPE..........: REPORT
CATEGORY.......: FIBER COMPOSITES
KEYWORDS.......: FIBER COMPOSITES/STRENGTH OF FIBERS/FIBER PROPERTIES

324 TITLE........: STRESS-RUPTURE BEHAVIOR OF GRAPHITE FIBER/EPOXY STRANDS
AUTHORS.......: MOORE, R. L./CHIAO, T. T./HAMSTAD, M. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: FUKUGO ZAIRYO (COMPOSITE MATERIALS AND STRUCTURES) VOL. 3,
                NO. 1, P.19, 1974
PUBL. DATE....: 1974
TYPE..........: JOURNAL
CATEGORY.......: FIBER COMPOSITES
KEYWORDS.......: FIBER COMPOSITES/LONG TERM PERFORMANCE

325 TITLE........: STRAIN MEASUREMENT TECHNIQUES FOR FIBER MODULUS DETERMINATION
AUTHORS.......: MOORE, R. L./LEPPER, J. K.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
VI FIBER COMPOSITE PROPERTIES

325 TITLE........: STRAIN MEASUREMENT TECHNIQUES FOR FIBER MODULUS (CONTD.)
SOURCE........: J. OF TESTING AND EVALUATION, VOL.2, NO.3, 1974
PUBL. DATE....: 1974
TYPE..........: JOURNAL

CATEGORY......: FIBER COMPOSITES
KEYWORDS......: FIBERS/TENSILE PROPERTIES/EPOXY RESINS/MODULUS OF ELASTICITY/STRAIN MEASUREMENT

326 TITLE........: PHENOMENOLOGICAL ANISOTROPIC FAILURE CRITERION
AUTHORS.......: WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE........: COMPOSITE MATERIALS, VOL. 2, CHAPT. 9, ACADEMIC PRESS.
PUBL. DATE....: 1974
TYPE..........: BOOK CHAPTER

CATEGORY......: MECHANICS

327 TITLE........: STRENGTH AND FRACTURE OF COMPOSITES
AUTHORS.......: WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE........: COMPOSITE MATERIALS, VOL. 5, CHAPT. 5, ACADEMIC PRESS.
PUBL. DATE....: 1974
TYPE..........: BOOK CHAPTER

CATEGORY......: MECHANICS

328 TITLE........: FAILURE CRITERIA TO FRACTURE MODE ANALYSIS OF COMPOSITE MATERIALS
AUTHORS.......: WU, E. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
VI FIBER COMPOSITE PROPERTIES

328 TITLE........: FAILURE CRITERIA TO FRACTURE MODE ANALYSIS OF COMPOSITE (CONT'D.)
SOURCE........: PROCEEDINGS OF THE 39TH MEETING OF THE STRUCTURAL AND
                MATERIALS PANEL, NATO, 1974.
PUBL. DATE....: 1974
TYPE..........: PROCEEDINGS
CATEGORY.....: MECHANICS

329 TITLE........: PROBABILISTIC DESIGN OF COMPOSITE STRUCTURES
AUTHORS.......: MAXWELL, R./ TOLAND, R. H./ JOHNSON, C. W.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
PUBL. DATE....: 1974
TYPE..........: JOURNAL
CATEGORY.....: MECHANICS

330 TITLE........: LAMINATE STRENGTH - A DIRECT CHARACTERIZATION PROCEDURE
AUTHORS.......: WU, E. M./ SCHUEBLEIN, J. K.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: ASTM STP 546, 1974.
PUBL. DATE....: 1974
TYPE..........: JOURNAL
CATEGORY.....: MECHANICS

331 TITLE........: WAVE PROPAGATION IN ELASTIC MEDIA WITH A PERIODIC ARRAY OF
                DISCRETE INCLUSIONS
AUTHORS.......: CHRISTENSEN, R. M.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
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### 331: WAVE PROPAGATION IN ELASTIC MEDIA WITH A PERIODIC ARRAY OF (CONTD.)
- **Title:** Wave Propagation in Elastic Media with a Periodic Array of (Contd.)
- **Publ. Date:** 1974
- **Type:** Journal
- **Category:** Mechanics

### 332: STRESS RUPTURE OF GLASS/EPOXY COMPOSITES - ENVIRONMENT AND STRESS EFFECTS.
- **Title:** Stress Rupture of Glass/Epoxy Composites - Environment and Stress Effects
- **Authors:** Wu, E. M. / Ruhman, D. C.
- **Organization:** Lawrence Livermore Laboratory
- **Address:** Livermore, CA 94550
- **Source:** ASTM STP 580, P. 263, 1974.
- **Publ. Date:** 1974
- **Type:** Report
- **Category:** Composite Properties

### 333: A PHYSICAL MECHANISM FOR THE EARLY ACOUSTIC EMISSION IN AN ORGANIC FIBER/EPOXY PRESSURE VESSEL
- **Title:** A Physical Mechanism for the Early Acoustic Emission in an Organic Fiber/Epoxy Pressure Vessel
- **Authors:** Hamstad, M. A./Chiao, T. T.
- **Organization:** Lawrence Livermore Laboratory
- **Address:** Livermore, CA 94550
- **Source:** SAMPE Quarterly, Vol. 5, No. 2, Jan./1974.
- **Publ. Date:** Jan. 1974
- **Type:** Journal
- **Category:** Fiber Composites
- **Keywords:** Fiber Composites/Noise During Rupture/Failure Detection

### 334: ACOUSTIC EMISSION FROM STRESS-RUPTURE AND FATIGUE OF AN ORGANIC FIBER COMPOSITE
- **Title:** Acoustic Emission from Stress-Rupture and Fatigue of an Organic Fiber Composite
- **Authors:** Hamstad, M. A./Chiao, T. T.
- **Organization:** Lawrence Livermore Laboratory
- **Address:** Livermore, CA 94550
VI FIBER COMPOSITE PROPERTIES

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<td>PROC. 29TH ANNUAL CONFERENCE, SPI REINFORCED PLASTICS COMPOSITES INST., SECT. 16-8, FEB. 1974</td>
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VI FIBER COMPOSITE PROPERTIES

337 TITLE........: TENSILE PROPERTIES OF AN ULTRA-HIGH-STRENGTH GRAPHITE FIBER AN EPOXY MATRIX
AUTHORS........: CHIAO, T. T./ HAMSTAD, M. A./JESSOP, E. S.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-75209, DEC., 1973
PRESENTED AT THE ASTM D-30 MEETING, LAS VEGAS, NEV., APRIL, 1
PUBL. DATE....: APR 1974
TYPE..........: REPORT
CATEGORY......: FIBER COMPOSITES
KEYWORDS......: COMPOSITE MATERIALS/CARBON FIBERS/EPOXY RESINS/FIBERS/
PERFORMANCE/ACoustics/EMISSION

338 TITLE........: POLYMER-LINED FILAMENT-WOUND PRESSURE VESSELS FOR NITROGEN CONTAINMENT
AUTHORS........: HAMSTAD, M. A./ CHIAO, T. T./JESSOP, E. S.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-75361, MAY, 1974
PRESENTED AT THE AIME MEETING, MAY 1974, PITTS./ PA.
PUBL. DATE....: MAY 1974
TYPE..........: REPORT
CATEGORY......: FIBER COMPOSITES
KEYWORDS......: FIBER COMPOSITES/LOW TEMPERATURE/FATIGUE RESISTANCE

339 TITLE........: FATIGUE PERFORMANCE OF METAL-LINED GRAPHITE/EPOXY VESSELS
AUTHORS........: HAMSTAD, M. A./ CHIAO, T. T./PATTERSON, R.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.......: LIVERMORE, CA 94550
SOURCE........: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-75759, JUNE, 1974
PUBL. DATE....: JUN 1974
TYPE..........: REPORT
VI FIBER COMPOSITE PROPERTIES

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<td>Stress-Rupture of Epoxy-Coated Be-Wire</td>
<td>Chiao, T. T./ Hamstad, M. A./ Jessop, E. S.</td>
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VI FIBER COMPOSITE PROPERTIES

342 TITLE.........: STRESS-RUPTURE OF EPOXY-COATED BE-WIRE (CONT'D.)
SOURCE.........: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-75712, MAY 1974,
J. OF COMPOSITE MATERIALS, VOL. 8, P. 405, OCTOBER, 1974.
PUBL. DATE.....: OCT 1974
TYPE..........: REPORT
CATEGORY......: FIBER COMPOSITES
KEYWORDS......: FIBER COMPOSITES/STRESS RUPTURE

343 TITLE.........: THE APPLICATION OF THREE DIMENSIONAL FINITE ELEMENT
ANALYSIS TO THE MICRO-MECHANICS OF FIBROUS COMPOSITE
MATERIALS
AUTHORS.......: LARDER, R. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: PUBLISHED IN PROCEEDINGS OF THE CUBE SYMPOSIUM, LAWRENCE
LIVERMORE LABORATORY OCTOBER 1974, P. 109
PUBL. DATE...: OCT 1974
TYPE..........: PROCEEDINGS
CATEGORY.....: FIBER COMPOSITES

344 TITLE.........: TENSILE PROPERTIES OF AN ULTRAHIGH-STRENGTH GRAPHITE FIBER
AN EPOXY MATRIX
AUTHORS.......: CHIAO, T. T./ HAMSTAD, M. A./ JESSOP, E. S.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-75209 REV. 1
PUBL. DATE...: OCT 01 1974
TYPE..........: REPORT
CATEGORY.....: FIBER COMPOSITES

345 TITLE.........: A MODERATE-TEMPERATURE-CURABLE EPOXY FOR ADVANCED COMPOSITE
AUTHORS.......: CHIAO, T. T./ JESSOP, E. S./ NEWEY, H. A.
VI FIBER COMPOSITE PROPERTIES

345 TITLE........: A MODERATE-TEMPERATURE-CURABLE EPOXY FOR ADVANCED COMPOSITE (CONTD.)
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-76126, PUBLISHED
              SAMPE QUARTERLY 6 (3), APRIL 1975
PUBL. DATE...: OCT 23 1974
TYPE........: REPORT
CATEGORY.....: FIBER COMPOSITES
KEYWORDS.....: FIBER COMPOSITES/PROPERTIES OF EPOXY

346 TITLE........: ACOUSTIC EMISSION USES IN RESEARCH AND DEVELOPMENT OF
                  COMPOSITE MATERIALS
AUTHORS.......: HAMSTAD, M. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-76257, PUBLISHED
              AMER. SOC. OF NON-DESTRUCTIVE TESTING ACOUSTIC EMISSION
              HANDBOOK
PUBL. DATE...: NOV 21 1974
TYPE........: REPORT
CATEGORY.....: FIBER COMPOSITES

347 TITLE........: ENGINEERING DESIGN DATA FOR COMPOSITE MATERIALS
AUTHORS.......: CLEMENTS, L. L.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: LAWRENCE LIVERMORE LABORATORY REPORT UCRL-77568, 1975
              FLYWHEEL TECHNOLOGY SYMPOSIUM, BERKELEY, CA 10-12 NOV. 1975
PUBL. DATE...: 1975
TYPE........: REPORT
CATEGORY.....: COMPOSITE PROPERTIES
VI FIBER COMPOSITE PROPERTIES

348  TITLE........: TESTING OF FIBER COMPOSITE MATERIALS
     AUTHORS.......: CHIAO, T. T./HAMSTAD, M. A.
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
     ADDRESS.......: LIVERMORE, CA 94550
     SOURCE.......: LAWRENCE LIVERMORE LABORATORY REPORT UCRL-76365, KEY SPEECH
                    FOR 1975 INTL. CONF. ON COMPOSITE MATERIALS IN GENEVA, SWITZ./
                    AND BOSTON MASS.
     PUBL. DATE...: JAN 09 1975
     TYPE..........: REPORT
     CATEGORY.....: FIBER COMPOSITES

349  TITLE........: STOCHASTIC FINITE ELEMENT SIMULATION OF THE NONLINEAR
                    STRUCTURAL RESPONSE OF FIBROUS COMPOSITE MATERIALS.
     AUTHORS.......: LARDER, R. A.
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
     ADDRESS.......: LIVERMORE, CA 94550
     SOURCE.......: LAWRENCE LIVERMORE LABORATORY REPORT UCRL-51717
     PUBL. DATE...: JAN 15 1975
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350  TITLE........: EVALUATION OF INTERLAMINAR SHEAR TEST FOR FIBER COMPOSITES
     AUTHORS.......: CHIAO, T. T./MOORE, R. L.
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
     ADDRESS.......: LIVERMORE, CA 94550
     SOURCE.......: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-51766
     PUBL. DATE...: MAR 05 1975
     TYPE..........: REPORT
     CATEGORY.....: FIBER COMPOSITES
VI FIBER COMPOSITE PROPERTIES

351 TITLE........: HIGH PERFORMANCE VESSELS FROM AN AROMATIC POLYAMIDE FIBER/EPoxy COMPOSITE
AUTHORS........: CHIAO, T. T./HAMSTAD, M. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
SOURCE..........: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-74780
PUBL. DATE.....: APR 07 1975
TYPE...........: REPORT
CATEGORY.......: FIBER COMPOSITES

352 TITLE........: CHEMICAL CHARACTERIZATION OF A HIGH-PERFORMANCE ORGANIC FIBER
AUTHORS........: PENN, LYNN/NEWHEY, H. A./CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
SOURCE..........: LAWRENCE LIVERMORE LABORATORY REPORT UCRL-76694
PUBL. DATE.....: APR 09 1975
TYPE...........: REPORT
CATEGORY.......: FIBER COMPOSITES

353 TITLE........: KEVLAR/EPoxy AND KEVLAR/GRAPHITE/EPoxy COMPOSITES FOR THE C-4 (TRIDENT) CHAMBER PROGRAM
AUTHORS........: CLEMENTS, L. L./MOORE, R. L./MONES, E. T./CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
SOURCE..........: LAWRENCE LIVERMORE LABORATORY REPORT, UCID-16747
PUBL. DATE.....: APR 24 1975
TYPE...........: REPORT
CATEGORY.......: FIBER COMPOSITES
VI FIBER COMPOSITE PROPERTIES

354 TITLE........: FATIGUE LIFE OF ORGANIC FIBER/EPOXY PRESSURE VESSELS
AUTHORS........: HAMSTAD, M. A./CHIAO, T. T./PATTERSON, R. G.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
SOURCE.........: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-76174 PUBLISHED PROCEEDINGS 7TH NATIONAL SAMPE CONFERENCE OCT., 14-16, ALBUQ.
NM
PUBL. DATE.....: MAY 01 1975
TYPE...........: REPORT
CATEGORY......: FIBER COMPOSITES

355 TITLE........: SCREENING OF EPOXY SYSTEMS FOR HIGH-PERFORMANCE FILAMENT WINDING APPLICATIONS
AUTHORS........: CHIAO, T. T./JESSOP, E. S./PENN, L. S.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
SOURCE.........: 7TH NATIONAL SAMPE CONFERENCE OCTOBER 14-16, 1975, ALBUQUERQUE NEW MEXICO
PUBL. DATE.....: MAY 19 1975
TYPE...........: PROCEEDING
CATEGORY......: FIBER COMPOSITES

356 TITLE........: A LONG POT LIFE EPOXY SYSTEM FOR FILAMENT WINDING
AUTHORS........: PENN, L. S./CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
SOURCE.........: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-76918
PUBL. DATE.....: JUN 01 1975
TYPE...........: REPORT
CATEGORY......: FIBER COMPOSITES
VI FIBER COMPOSITE PROPERTIES

357  TITLE.......: PERFORMANCE OF FILAMENT-WOUND VESSELS FROM AN ORGANIC FIBER IN SEVERAL EPOXY MATRICES
AUTHORS......: CHIAO, T. T./ JESSOP, E. S./HAMSTAD, M. A.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-76913
PUBL. DATE...: JUN 11 1975
TYPE.........: REPORT
CATEGORY.....: FIBER COMPOSITES

358  TITLE.......: ELONGATED-RING SPECIMEN FOR TENSILE PROPERTIES OF FILAMENT-WOUND COMPOSITES
AUTHORS......: CLEMENTS, L. L./ MOORE, R. L./CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL 76917
PUBL. DATE...: JUN 13 1975
TYPE.........: REPORT
CATEGORY.....: FIBER COMPOSITES

359  TITLE.......: STRENGTH DISTRIBUTION OF SINGLE FILAMENTS
AUTHORS......: LARDER, R. A./BEADLE, C. W.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: JOURNAL OF COMPOSITE MATERIALS 9, 241
PUBL. DATE...: JUL 1976
TYPE.........: JOURNAL
CATEGORY.....: FIBER COMPOSITES
VI FIBER COMPOSITE PROPERTIES

360 TITLE........: HOLOGRAPHIC EXAMINATION OF A COMPOSITE PRESSURE VESSEL
AUTHORS........: MEYER, M.D./KATAYANAGI, T. E.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
SOURCE.........: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL 77300
PUBL. DATE.....: SEP 10 1975
TYPE...........: REPORT
CATEGORY.......: FIBER COMPOSITES

361 TITLE........: STRENGTH RETENTION AND LIFE OF FIBER COMPOSITE MATERIALS
AUTHORS........: CHIAO, T. T./SHERRY, R. J.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
SOURCE.........: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-77225
PUBL. DATE.....: SEP 19 1975
TYPE...........: REPORT
CATEGORY.......: FIBER COMPOSITES

362 TITLE........: FIBER COMPOSITES FOR ENERGY STORAGE FLYWHEELS.
AUTHORS........: PENN, L. S./CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS........: LIVERMORE, CA 94550
SOURCE.........: LAWRENCE LIVERMORE LABORATORY REPORT, UCRL-76891 ALSO: PROC.
ANNUL. CONF. REINF. PLAST. COMPOS. INST. SOC. PLAST. IND.
31, 12-2.
PUBL. DATE.....: OCT 07 1975
TYPE...........: REPORT
CATEGORY.......: FIBER COMPOSITES
KEYWORDS.......: FIBER COMPOSITES/FLYWHEELS/FLYWHEEL MATERIALS
VI FIBER COMPOSITE PROPERTIES

363 TITLE: CHARACTERIZATION PROCEDURE FOR THERMOSETTING RESINS
AUTHORS: PENN, L. S. / NEWEY, H.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS: LIVERMORE, CA 94550
SOURCE: LAWRENCE LIVERMORE LABORATORY REPORT UCID-16934, 10 OCTOBER 1975.
PUBL. DATE: OCT 10 1975
TYPE: REPORT
CATEGORY: MATERIAL PROPERTIES

364 TITLE: FIBER COMPOSITE PROGRAM FOR FLYWHEEL APPLICATIONS. SECOND QUARTERLY PROGRESS REPORT.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS: LIVERMORE, CA 94550
SOURCE: UCRL-50033-75
CONTRACT #: W-7405-ENG-48
PUBL. DATE: NOV 1975
TYPE: REPORT
PUBLISHER: LLL

KEYWORDS: COMPOSITE MATERIALS/ ENERGY STORAGE/ FIBERS/ FLYWHEELS/ GLASS/ MATERIALS TESTING/ MECHANICAL PROPERTIES/ MEETINGS/ RESEARCH PROGRAMS/ STRESSES

365 TITLE: FIBER COMPOSITES HIGHLIGHTS
AUTHORS: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS: LIVERMORE, CA 94550
SOURCE: UCIR-942-75-2
PUBL. DATE: NOV 14 1975
VI FIBER COMPOSITE PROPERTIES

366  TITLE........: LONG-TERM PERFORMANCE OF FIBER COMPOSITES
     AUTHORS......: CHIAO, C. C.
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
     ADDRESS......: LIVERMORE, CA. 94550
     SOURCE.......: UCRL-77547. ALSO: CONF-751133-1
     CONTRACT #....: W-7405-ENG-48
     PUBL. DATE....: DEC 01 1975
     TYPE..........: REPORT
     PUBLISHER.....: LLL
     CONFERENCE....: FLYWHEEL TECHNOLOGY SYMPOSIUM
     LOCATION.....: BERKELEY, CA.
     DATE..........: 10 NOV., 1975
     KEYWORDS.....: COMPOSITE MATERIALS/ EPOXIDES/ FILAMENTS/ FLYWHEELS/ GLASS/
                    MATERIALS/ MECHANICAL PROPERTIES/ POLYMERS/ RUPTURES/
                    STRESSES

367  TITLE........: FIBER COMPOSITES HIGHLIGHTS
     AUTHORS......: CHIAO, T. T.
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
     ADDRESS......: LIVERMORE, CA. 94550
     SOURCE.......: UCIR-942-75-3
     PUBL. DATE....: DEC 15 1975

368  TITLE........: A THERMODYNAMIC CRITERION FOR THE GLASS—TRANSITION
                    TEMPERATURE.
     AUTHORS......: CHRISTENSEN, R. M.
     ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
     ADDRESS......: LIVERMORE, CA 94550
     PUBL. DATE....: 1976
     CATEGORY.....: MECHANICS
VI FIBER COMPOSITE PROPERTIES

369   TITLE........: THE EFFECTIVE MODULI OF COMPOSITES CONTAINING RANDOMLY ORIENTED FIBERS.
      AUTHORS.....: CHRISTENSEN, R. M.
      ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
      ADDRESS.....: LIVERMORE, CA 94550
      PUBL. DATE..: 1976
      CATEGORY.....: MECHANICS

370   TITLE........: WAVE PROPAGATION IN LAYERED ELASTIC MEDIA
      AUTHORS.....: CHRISTENSEN, R. M.
      ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
      ADDRESS.....: LIVERMORE, CA 94550
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      PUBL. DATE..: 1976
      TYPE.........: JOURNAL
      CATEGORY.....: MECHANICS

371   TITLE........: COMPOSITE MATERIALS FOR ENERGY STORAGE FLYWHEELS
      AUTHORS.....: CHIAO, T. T.
      ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
      ADDRESS.....: LIVERMORE, CA 94550
      SOURCE.......: UCRL-78225-ABSTRACT
      PUBL. DATE..: 1976

372   TITLE........: CHARACTERIZATION OF A POLYAMIDE MATRIX FOR FIBER COMPOSITES
      AUTHORS.....: PENN, L. S. / MONES, E. T. / CHIAO, T. T.
      ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
      ADDRESS.....: LIVERMORE, CA 94550
      SOURCE.......: SAMPE QUARTERLY, JAN. 1976.
ERDA BIBLIOGRAPHY FOR FLYWHEEL ENERGY STORAGE SYSTEMS
MAIN LISTING, ORDERED CHRONOLOGICALLY WITHIN EACH CATEGORY

VI FIBER COMPOSITE PROPERTIES

372 TITLE........: CHARACTERIZATION OF A POLYAMIDE MATRIX FOR FIBER COMPOSITES (CONT'D.)
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373 TITLE........: FIBER COMPOSITES HIGHLIGHTS
AUTHORS.......: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.......: UCIR-942-75-4
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374 TITLE........: FIBER COMPOSITES HIGHLIGHTS
AUTHORS.......: CHIAO, T. T.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
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375 TITLE........: ORGANIC MATERIALS DIVISION QUARTERLY REPORT
AUTHORS.......: LEPPER, J. K.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS.....: LIVERMORE, CA. 94550
SOURCE.......: UCRL-50019-75-4
PUBL. DATE...: FEB 20 1976

376 TITLE........: AN ACCELERATED TEST FOR PREDICTING THE LIFETIME OF ORGANIC FIBER COMPOSITES

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376 TITLE........: AN ACCELERATED TEST FOR PREDICTING THE LIFETIME OF ORGANIC (CONT'D.)
AUTHORS.......: CHIAO, C. C.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: 3RD BIENNIAL AIME SYMPOSIUM, LAS VEGAS, NEVADA, FEB. 22-26, 1976
PUBL. DATE...: FEB 22 1976
TYPE.........: PROCEEDINGS
CATEGORY......: COMPOSITE PROPERTIES

377 TITLE........: CHEMISTRY AND TECHNOLOGY OF HIGH STRENGTH POLYAMIDE FIBERS
AUTHORS.......: LARSEN, F. N.
ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
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PUBL. DATE...: MAR 10 1976
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378 TITLE........: FIBER COMPOSITES HIGHLIGHTS
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ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
ADDRESS......: LIVERMORE, CA 94550
SOURCE.......: UCIR-942-76-2
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379 TITLE........: FIBER COMPOSITES HIGHLIGHTS
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ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
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380 TITLE........: FIBER COMPOSITES HIGHLIGHTS
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ORGANIZATION: LAWRENCE LIVERMORE LABORATORY
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382 TITLE........: FIBER COMPOSITES HIGHLIGHTS
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