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AD-677 025

AD 677025

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**BIBLIOGRAPHY OF BIBLIOGRAPHIES
IN THE DDC COLLECTION**

(Supplement to AD-410 397)

VOLUME VII OF VIII VOLUMES

DDC-TAS-68-38

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SEPTEMBER 1968

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U N C L A S S I F I E D - U N L I M I T E D

AD-677 025

A DDC

BIBLIOGRAPHY OF BIBLIOGRAPHIES

IN THE DDC COLLECTION

(SUPPLEMENT TO AD-410 397)

Volume VII of VIII Volumes

DDC-TAS-68-38

This document has been approved
for public release and sale; its
distribution is unlimited.

AUGUST 1968

DEFENSE DOCUMENTATION CENTER
for
SCIENTIFIC AND TECHNICAL INFORMATION
Cameron Station, Alexandria, Virginia 22314

U N C L A S S I F I E D - U N L I M I T E D

P R E F A C E

This is the seventh volume of a series of Bibliography of Bibliographies in the collection of the Defense Documentation Center. This volume continues to supplement AD-410 397 and contains approximately 331 bibliographic citations of Unclassified-Unlimited documents, which were acquired from August 1963 through October 1967. The other volumes are available as follows:

- AD-392 800 Volume I - Restricted Data entries
- AD-392 900 Volume II - Classified entries
- AD-841 080 Volume III - Unclassified-Limited entries falling into COSATI fields 1-10
- AD-841 090 Volume IV - Unclassified-Limited entries falling into COSATI fields 11-16
- AD-841 100 Volume V - Unclassified-Limited entries falling into COSATI fields 17-22
- AD-677 015 Volume VI - Unclassified-Unlimited entries falling into COSATI fields 1-6

The bibliographic citations in Volume VII are arranged in seven COSATI subject categories. To facilitate searching for specific entries, computer-produced indexes are provided. These include AD number-page, contract, subject (descriptor), corporate author (originator), personal author, and report number.

The complete set of eight volumes will contain approximately 2,300 entries covering all 22 COSATI subject categories.

The indexes are employed as follows:

AD NUMBER-PAGE INDEX

This index can be used to find the page number of a specific citation if the AD number is known. It can also be used

in conjunction with the other indexes to locate quickly the AD numbers referred there for entries contained in this volume.

CONTRACT INDEX

This index is arranged alphanumerically by contract number. Within a contract grouping, each entry contains corporate author, source series number (if any), monitor number (if any), and AD number. When there are multiple document entries under one contract number, entries are arranged by AD number under each corporate author represented. A contract entry may also contain a letter F, A, or S on the left margin, indicating that the document is a Final, Annual, or Summary report. For example:

*AF 33 657 10574
California Univ Berkeley Inst of
Engineering Research
MT63 12
(RTD-TDR63 4069)
F AD-425 552

SUBJECT INDEX

This subject index is arranged according to alphabetical order of asterisked descriptors which identify the most significant subjects of the report. The asterisked descriptor may or may not have a modifying descriptor appearing directly below it. Under each descriptor entry appear the annotation and AD number. For example:

*Electric Insulation
Bibliographies
Bibliography on Polyethylene
Sheathed Cables
AD-601 286

CORPORATE AUTHOR-MONITORING AGENCY INDEX

The corporate author-monitoring agency index is arranged according to alphabetical order of corporate authors and

monitoring agencies. The names are designated by asterisks. Under the corporate author, the entry for each document contains the originator's report number, the title, and AD number. For example: *Hughes Aircraft Co Culver City Calif
Library

* * *

LS-BIB-65-1
Diaphragms, A Selected
Bibliography
AD-623 361

* * *

LS-BIB-65-3
A Bibliography on
Polytetrafluoro Ethylene (Teflon)
Plastics
AD-633 579

The three asterisks in the entry serve as a separator between entries for reports under the same corporate author or monitoring agency.

PERSONAL AUTHOR INDEX

The personal author index contains entries arranged alphabetically by the last names of the authors of reports. When several report entries are given for one author, the entries are arranged numerically by AD number. The title or annotation for each report is given. For example:

*Slesarenko, Michael

* * *

Materials for High-Temperature
Energy Converters: Annotated
Bibliography
AD-625 198

* * *

Materials for High-Temperature
Energy Converters: Annotated
Bibliography
AD-631 272

REPORT NUMBER INDEX

The report number index lists identifying numbers assigned either by the document originators or by the sponsors of the work described in the document.

NRL-6531
AD-651 707

BY ORDER OF THE DIRECTOR, DEFENSE SUPPLY AGENCY

OFFICIAL

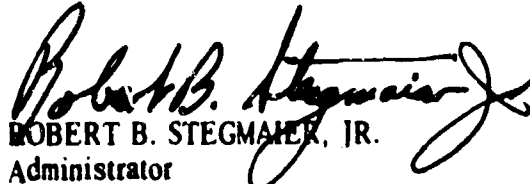

ROBERT B. STEGMAIER, JR.
Administrator
Defense Documentation Center

TABLE OF CONTENTS

	<u>Page</u>
PREFACE	iii
COSATI SUBJECT FIELDS	
Chemistry	1
Earth Sciences and Oceanography	59
Electronics and Electrical Engineering	107
Energy Conversion (Non-Propulsive)	159
Materials	175
Mathematical Sciences	273
Mechanical, Industrial, Civil, and Marine Engineering	293
INDEXES	
CORPORATE AUTHOR/MONITORING AGENCY	O-1
SUBJECT	D-1
PERSONAL AUTHOR	P-1
CONTRACT	C-1
REPORT NUMBER	R-1
AD NUMERIC	A-1

CHEMISTRY

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-405 564

NEW YORK UNIV N Y SCHOOL OF ENGINEERING AND SCIENCE
LITERATURE SURVEY ON THE PREPARATION OF METALS FROM
ORGANOMETALLIC COMPOUNDS. (U)

MAR 63 16P TSUTSUI, MINORU ;

LORENT, DONALD ;

REPT. NO. 541

CONTRACT: AF19 62R 1A35

PROJ: 4608

TASK: 460802

MONITOR: AFRL 63 22

UNCLASSIFIED REPORT

DESCRIPTORS: (COFFALORGANIC COMPOUNDS),
(TRANSITION ELEMENTS), (RARE EARTH
ELEMENTS), BIBLIOGRAPHIES, RARE EARTH COMPOUNDS,
COMPLEX COMPOUNDS, NICKEL, IRON, COBALT,
CHROMIUM, DECOMPOSITION,
REDUCTION(CHEMISTRY), CHEMICAL REACTIONS,
IMPURITIES, HYDROGENATION, PREPARATION (U)

THIS LITERATURE SURVEY COVERS THE REPORTED WORK ON
THE PREPARATION OF METALS FROM ORGANOMETALLIC
DERIVATIVES. THE MAIN EMPHASIS HAS BEEN PLACED ON
THE TRANSITION AND RARE EARTH METALS WITH THERMAL OR
CHEMICAL METHODS OF RECOVERY. A GENERAL SURVEY OF
THE ORGANOMETALLIC DERIVATIVES WHICH HAVE BEEN
PREPARED FOR THESE TYPES OF METALS HAS BEEN INCLUDED
ONLY TO SUGGEST POSSIBLE AVENUES OF APPROACH IN
SELECTION OF THE TYPE WHICH WOULD OFFER THE MOST
DESIRABLE PROPERTIES. (AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-406 734

JOINT PUBLICATIONS RESEARCH SERVICE WASHINGTON D C
ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND
TECHNICAL JOURNALS NO. 136 (CHEMISTRY SERIES). (U)

7P

REPT. NO. 16722

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ABSTRACT TRANS. OF ZEITSCHRIFT FUR
ANORGANISCHE UND ALLGEMEINE CHEMIE (EAST GERMANY)
1963, V. 320, NO. 5/6, PP. 205-319. ALSO FROM OTS FOR
\$5.50 AS REPT. 63-21596.

DESCRIPTORS: •ABSTRACTS, BIBLIOGRAPHIES,
•CHEMISTRY, INORGANIC SUBSTANCES, PHASE
STUDIES, •CHEMICAL ANALYSIS, CHROMATOGRAPHIC
ANALYSIS, •CATALYSTS, BORATES, •COMPLEX
COMPOUNDS, FERROMAGNETIC MATERIALS, MINERALS,
METALS. (U)

TRANSLATION OF ABSTRACTS ON EAST EUROPEAN RESEARCH IN
CHEMISTRY.

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-406 745

JOINT PUBLICATIONS RESEARCH SERVICE WASHINGTON D C
ABSTRACTS PERTAINING TO COMMUNIST CHINA IN SOVIET
ABSTRACTS JOURNALS NO. 58 (CHEMISTRY AND METALLURGY
SERIES).

(U)

MAY 63 32P

REPT. NO. 19065

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF SELECTED ABSTRACTS FROM
REFERATIVNYI ZHURNAL. KHIMIYA (USSR) 1962, NOS. 2)-
27; AND REFERATIVNYI ZHURNAL. METALLURGIYA (USSR)
1962, NO. 6. ALSO FROM OTS FOR \$1.00 AS REPT. 63
21753.

DESCRIPTORS: •ABSTRACTS, BIBLIOGRAPHIES,
•CHEMISTRY, •METALLURGY, •PHYSICAL CHEMISTRY,
THERMOCHEMISTRY, CRYSTALS, CHEMICAL ENGINEER
ING, POLYMERS, CHEMICAL ANALYSIS.

(U)

AD-406 745

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-406 963

JOINT PUBLICATIONS RESEARCH SERVICE WASHINGTON D C
ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND
TECHNICAL JOURNALS NO. 181 (CHEMISTRY SERIES). (U)
MAY 63 21P

REPT. NO. 19349

UNCLASSIFIED REPORT

3-243; NO. 3, P. 245-263, 265-271, 273-299, 301-359, 361-
375; NO. 4, P. 377-379, 381-389, 391-405, 407-417, 419-445,
447-463, 465-480. ALSO FROM UTS FOR \$.75 AS REPT. 63-
21891.

SUPPLEMENTARY NOTE: ABSTRACT TRANS. OF ACTA CHIMICA
(HUNGARY) 1963, V. 25, NO. 2, P. 137-177, 179-211, 213-
221.

DESCRIPTORS: ABSTRACTS, BIBLIOGRAPHIES,
•CHEMISTRY, PHYSICAL CHEMISTRY, THERMO
CHEMISTRY, ELECTROCHEMISTRY, BIOCHEMISTRY,
ORGANIC COMPOUNDS, MINERALS, PETROLEUM,
PLASTICS, DRUGS, CHEMICAL ENGINEERING,
RADIOCHEMISTRY.

IDENTIFIERS: JPRS.

(U)

(U)

ABSTRACTS OF FOREIGN RESEARCH: CHEMICAL ABSTRACTS FROM
EAST EUROPEAN SCIENTIFIC AND TECHNICAL JOURNALS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-403 705

AERONAUTICAL SYSTEMS DIV WRIGHT-PATTERSON AFB OHIO PHYSICS
LAB

LOW TEMPERATURE X-RAY DIFFRACTION TECHNIQUES. I.
REVIEW AND BIBLIOGRAPHY. II. A LOW TEMPERATURE
SPECIMEN MOUNT FOR THE SIEMENS HORIZONTAL
DIFFRACTOMETER. (U)

DESCRIPTIVE NOTE: REPT. FOR MAR 62-FEB 63.

APR 63 26P BAUN, WILLIAM L.;

RENTON, JOHN J.;

PROJ: AF PROJ. 7360

MONITOR: ASD TOR63 278

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT ON MATERIALS ANALYSIS AND
EVALUATION TECHNIQUES.

DESCRIPTORS: (X-RAY DIFFRACTION ANALYSIS, LOW
TEMPERATURE RESEARCH), BIBLIOGRAPHIES, REVIEWS,
X-RAY DIFFRACTION CAMERAS, COOLING. (U)

IDENTIFIERS: 1962. (U)

A REVIEW AND BIBLIOGRAPHY OF 78 REFERENCES ON LOW
TEMPERATURE X-RAY DIFFRACTION TECHNIQUES ARE PRE
SENTED. A LOW TEMPERATURE SPECIMEN MOUNT FOR THE
HORIZONTAL SIEMENS DIFFRACTOMETER IS DESCRIBED.
CONSTRUCTION DETAILS, SAMPLING TECHNIQUES, AND LOW
TEMPERATURE METHODS ARE DISCUSSED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-408 845

JOINT PUBLICATIONS RESEARCH SERVICE WASHINGTON D C
ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND
TECHNICAL JOURNALS NO. 17A (CHEMISTRY SERIES). (U)

MAY 63 39P

REPT. NO. 19328

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: CONSISTS OF ABSTRACTS OF ARTICLES FROM
SELECTED SCIENTIFIC AND TECHNICAL JOURNALS OF HUNGARY.
ALSO FROM OTS FOR \$1.00 AS REPT. 62 21863.

DESCRIPTORS: (*ABSTRACTS), BIBLIOGRAPHIES ,
(*CHEMISTRY), PHYSICAL CHEMISTRY, ORGANIC
COMPOUNDS, CHEMICAL ANALYSIS,
ELECTROCHEMISTRY, SPECTROSCOPY,
SYMPOSIA. (U)

IDENTIFIERS: JPRS. (U)

ABSTRACTS OF ARTICLES FROM SCIENTIFIC AND TECHNICAL
JOURNALS OF HUNGARY (CHEMISTRY SERIES).

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-412 036

JOINT PUBLICATIONS RESEARCH SERVICE WASHINGTON D C

ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND

TECHNICAL JOURNALS NO. 47 (CHEMISTRY SERIES).

(U)

JAN 63 10P

REPT. NO. 17076

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ABSTRACT TRANS. OF ZEITSCHRIFT FUR
ANORGANISCHE UND ALLGEMEINE CHEMIE (GERMANY)

1962, V. 318, NO. 5/6, P. 233-227. ALSO FROM OTS FOR

SI.10 AS REPT. 62 19544.

DESCRIPTORS: (*ABSTRACTS), BIBLIOGRAPHIES,
(*CHEMISTRY), PHOTOGRAPHIC ANALYSIS, SYNTHESIS
(CHEMISTRY), HALIDES, CHEMICAL ANALYSIS,
PHYSICAL CHEMISTRY, CATALYSTS, ORGANIC COM
POUNDS, INORGANIC COMPOUNDS.

(U)

IDENTIFIERS: JPRS.

(U)

TRANSLATIONS OF ABSTRACTS OF CHEMICAL RESEARCH PAPER FOR
AN EAST GERMANY JOURNAL.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-412 033

JOINT PUBLICATIONS RESEARCH SERVICE WASHINGTON D C
ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND
TECHNICAL JOURNALS NO. 222 (GENERAL SERIES). (U)

JUL. 63 20P

REPT. NO. 19923

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: CONSISTS OF ABSTRACTS OF ARTICLES
FROM SELECTED SCIENTIFIC AND TECHNICAL JOURNALS OF CZECHOS
LOVAKIA AND YUGOSLAVIA. ALSO FROM OTS 9.75 AS REPT.
63-21148.

DESCRIPTORS: (*ABSTRACTS), (*CHEMISTRY),
BIBLIOGRAPHIES, ATMOSPHERIC POLLUTION,
EDUCATION, MEDICINE, AGRICULTURE, LITERATURE,
CONFERENCES (U)

IDENTIFIERS: JPRS. (U)

TRANSLATION OF FOREIGN RESEARCH; ABSTRACTS FROM EAST
EUROPEAN SCIENTIFIC AND TECHNICAL JOURNALS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000750

AD-412 091

JOINT PUBLICATIONS RESEARCH SERVICE WASHINGTON D C
ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND
TECHNICAL JOURNALS NO. 240 (CHEMISTRY SERIES). (U)

JUL 63 7P

REPT. NO. 20110

UNCLASSIFIED REPORT

7 DESCRIPTORS: (*ABSTRACTS), BIBLIOGRAPHIES,
(*CHEMISTRY), (*ORGANIC COMPOUNDS), SYNTHESIS,
MOLECULAR STRUCTURE, COMPLEX COMPOUNDS, CATALYSTS,
(*BIOCHEMISTRY), (*PHARMACOLOGY).

SUPPLEMENTARY NOTE: ABSTRACT TRANS. OF ROCZNIKI CHEMII
(POLAND), 1963, V. 37, NO. 5, PP. 515-522, 525-545,
547-573, 575-579, 581-587, 589-600. ALSO FROM OTS FOR
\$0.50 AS REPT. 63 21251.

DESCRIPTORS: (*ABSTRACTS), (*CHEMISTRY),
(*ORGANIC COMPOUNDS), (*BIOCHEMISTRY),
(*PHARMACOLOGY), BIBLIOGRAPHIES, SYNTHESIS,
MOLECULAR STRUCTURE, COMPLEX COMPOUNDS,
CATALYSTS (U)

IDENTIFIERS: JFRS. (U)

ABSTRACTS OF TRANSLATION OF FOREIGN RESEARCH ON
CHEMISTRY.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-912 095

JOINT PUBLICATIONS RESEARCH SERVICE WASHINGTON D C
ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND
TECHNICAL JOURNALS NO. 21. (CHEMISTRY SERIES). (U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ABSTRACT TRANS. OF REVISTA DE
CHIMIE (ROMANIA), 1962, V. 14, NO. 2, PP. 67-102, 111-
115. ALSO FROM ITS FOR \$6.50 AS REPT. 63 21041.

DESCRIPTORS: (ABSTRACTS), BIBLIOGRAPHIES,
(CHEMISTRY), FERTILIZERS, SILICON, DYES, TOWERS
(CHEMISTRY), FLUID FLOW (U)
IDENTIFIERS: JPRS (U)

TRANSLATIONS OF ABSTRACTS FROM EAST EUROPEAN
SCIENTIFIC AND TECHNICAL JOURNALS.

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000950

AD-412 100

JOINT PUBLICATIONS RESEARCH SERVICE WASHINGTON D C
ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND
TECHNICAL JOURNALS NO. 216 (CHEMISTRY SERIES). (U)

JUN 67 16P

REPT. NO. 19823

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: CONSISTS OF ABSTRACTS OF ARTICLES FROM
THE SCIENTIFIC AND TECHNICAL JOURNALS OF HUNGARY AND
POLAND. ALSO FROM OTS FOR \$50 AS REPT. 67 21104.

DESCRIPTORS: (*ABSTRACTS), BIBLIOGRAPHIES,
(*CHEMISTRY), (*PHYSICAL CHEMISTRY), ELECTRO
CHEMISTRY, INORGANIC COMPOUNDS, (*ORGANIC
COMPOUNDS), SYNTHESIS, CHEMICAL ANALYSIS,
COMPLEX COMPOUNDS, CATALYSIS. (U)

IDENTIFIERS: JPFS. (U)

TRANSLATION OF FOREIGN RESEARCH; EAST EUROPEAN
SCIENTIFIC AND TECHNICAL JOURNALS CHEMISTRY ABSTRACTS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000950

AL-414 384

AVCO CORP WILMINGTON MASS RESEARCH AND ADVANCED
DEVELOPMENT DIV

RESEARCH ON AEROSOL SCATTERING IN THE INFRARED. (U)

DESCRIPTIVE NOTE: FINAL REPT.

221P PENNDORF, RUDOLF B. ;

MONITOR: AFRL 63 648

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•AEROSOLS, SCATTERING), (•INFRARED
RADIATION, SCATTERING), (•BIBLIOGRAPHIES, INFRARED
RESEARCH), (•SCATTERING, MATHEMATICAL ANALYSIS),
NUMERICAL ANALYSIS, INTENSITY, SOLAR RADIATION, DUST,
AMMONIUM COMPOUNDS, SULFATES, REFRACTIVE INDEX,
ABSORPTION, SPECTRA (INFRARED), PARTICLE SIZE,
STATISTICAL ANALYSIS (U)
IDENTIFIERS: 1963 (U)

THEORETICAL STUDIES HAVE BEEN CARRIED OUT TO
INVESTIGATE THE SCATTERING OF LIGHT BY SPHERICAL
AEROSOLS WITH THE OBJECTIVE TO OBTAIN BASIC IN-
FORMATION USEFUL FOR PRACTICAL APPLICATIONS.
NUMERICAL DATA FOR MIE SCATTERING HAVE BEEN
ANALYZED TO FIND GENERAL TRENDS, TO SIMPLIFY
INTERPOLATION PROBLEMS, AND TO ESTABLISH SIMPLE
RELATIONSHIPS BETWEEN IMPORTANT PARAMETERS. RESULTS
OF THE RESEARCH ARE GIVEN IN THE FORM OF ABSTRACTS OF
10 SCIENTIFIC REPORTS AND 6 RELATED PAPERS.
REVISIONS AND ADDITIONS TO EACH REPORT ARE GIVEN.
AN EXTENSIVE BIBLIOGRAPHY OF TABLES CONCERNING
MIE SCATTERING AND AN ATLAS OF SCATTERING DIAGRAMS
FOR SIX REFRACTIVE INDICES FROM $n = 1.1$ TO 1.9 AND E
 $\alpha = 0.5$ TO 10 ARE GIVEN AS APPENDIXES.
(AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-414 234

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
THE DIFFUSION OF HYDROGEN AND OTHER LIGHT GASES
THROUGH MEMBRANES, POROUS MEDIA, AND THIN PLATES: AN
ANNOTATED BIBLIOGRAPHY, (U)

OCT 62 13P PIERCE, CHARLIE M.;
REPT. NO. 6 90 63 31;
CONTRACT: 5667 26,15

UNCLASSIFIED REPORT

DESCRIPTORS: (HYDROGEN, DIFFUSION), (GASES,
DIFFUSION), (DIFFUSION, GASES), (BIBLIO
GRAPHIES, DIFFUSION), MEMBRANES, POROUS
MATERIALS, SHEETS, ABSTRACTS, RUBBER, PER
MEABILITY, VAPORS, FILMS, PLASTICS, MATHE
MATICAL ANALYSIS, POLYMERS, CELLULOSE, OSMOTIC
PRESSURE, ORGANIC MATERIALS, METALS,
CAPILLARIES, SECTION, MEASUREMENT, FOILS,
TEXTILES, SOLUTION, SOLUBILITY. (U)
IDENTIFIERS: 1962. (U)

THE DIFFUSION OF LIGHT GASES THROUGH POROUS AND
SEMIPOROUS MATERIALS HAS NOT BEEN STUDIED TO ANY
GREAT DEGREE AND, UNFORTUNATELY, VERY FEW REFERENCES
HAVE APPEARED. THIS BIBLIOGRAPHY CONJO SELECTED
REFERENCES DATING FROM 1922. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-419 987

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

PURIFICATION OF BORON. ANNOTATED BIBLIOGRAPHY BASED
ON SOVIET OPEN LITERATURE. (U)

SEP 63 7P

MONITOR: AID 863 114

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BORON, PURIFICATION),
(BIBLIOGRAPHIES, BORON), ABSTRACTS, BORON COMPOUNDS (U)
IDENTIFIERS: USSR, 1963 (U)

THIS BIBLIOGRAPHY IS BASED ON SOVIET OPEN SOURCE
MATERIALS AVAILABLE AT THE AEROSPACE INFORMATION
DIVISION AND THE LIBRARY OF CONGRESS AND COVERS
THE YEAR 1966. AN AUTHOR INDEX AND INDEX OF
INSTITUTIONS ARE INCLUDED. THE SEVEN ENTRIES ARE
ARRANGED ALPHABETICALLY BY AUTHOR. ANNOTATIONS HAVE
BEEN PROVIDED IN ALL CASES WHERE ABSTRACTS ARE NOT
AVAILABLE. LIBRARY OF CONGRESS CALL NUMBERS
ACCOMPANY EACH ENTRY. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-423 117

CINCINNATI UNIV OHIO

ENERGETICS OF THE COMBINATION OF A PROTON AND A
HYDRIDE ION.

(U)

DESCRIPTIVE NOTE: FINAL REPT.,

43 JP DESSY, RAYMOND F. ;

CONTRACT: AF49 638 824 , GRANT AF OSR417 43

MONITOR: AFOSK J1152

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*METALORGANIC COMPOUNDS, CHEMICAL
REACTIONS), (*PROTONS, CHEMICAL REACTIONS),
(*HYDRIDES, CHEMICAL REACTIONS), (*BIBLIOGRAPHIES,
METALORGANIC COMPOUNDS), IONS, EXCHANGE REACTIONS,
REACTION KINETICS

(U)

IDENTIFIERS: 1763

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000950

AD-423 546

PLASTICS TECHNICAL EVALUATION CENTER DOVER N J
LITERATURE SURVEY ON THERMAL DEGRADATION, THERMAL
OXIDATION, AND THERMAL ANALYSIS OF HIGH POLYMERS, (U)

149P LEVI, DAVID W. ;

MONITOR: PTEC PN7

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, POLYMERS), (POLYMERS,
BIBLIOGRAPHIES), (REVIEWS, POLYMERS), STYRENE
PLASTICS, POLYETHYLENE PLASTICS, HALOCARBON PLASTICS,
POLYESTER PLASTICS, PYROLYSIS, OXIDATION, AROMATIC
COMPOUNDS, ORGANIC NITROGEN COMPOUNDS, INORGANIC
POLYMERS (U)

IDENTIFIERS: 1963, THERMAL ANALYSIS (U)

A BIBLIOGRAPHY OF REFERENCE RESULTING FROM A
LITERATURE SURVEY ON THERMAL DEGRADATION, THERMAL
OXIDATION, AND THERMAL ANALYSIS OF HIGH POLYMERS IS
PRESENTED. TYPICAL MATERIALS INCLUDED ARE:
POLYSTYRENE, POLYETHYLENE, POLYBENZYL, POLYPHENYL,
POLYXYLENES, HYDROCARBON POLYMERS, HALOGEN
SUBSTITUTED POLYMERS, POLYMERS CONTAINING ACID AND
ESTER GROUPS, SYNTHETIC POLYMERS, AND SOME INORGANIC
AND SEMIORGANIC SYSTEMS. THE COVERAGE IS BELIEVED
TO BE EXTENSIVE WITHIN THE LIMITS SET, ALTHOUGH IT IS
NOT CLAIMED TO BE COMPLETELY EXHAUSTIVE. IN
PARTICULAR, THE COVERAGE OF NATURALLY OCCURRING
POLYMERS AND MATERIALS DERIVED FROM THEM INCLUDES
ONLY CERTAIN PAPERS AND IS NOT COMPLETE. ALSO NOT
INCLUDED ARE THE VAST ARRAY OF STUDIES OF MATERIALS
THAT MIGHT BE CONSIDERED AS MODEL COMPOUNDS.
HOWEVER, A MODERATE REPRESENTATION OF THESE MODEL
COMPOUNDS IS GIVEN. THE BIBLIOGRAPHY CONSISTS OF
913 ITEMS, MANY OF WHICH ARE ANNOTATED BY THE
AUTHOR. THESE ARE GROUPED UNDER GENERAL AND
MATERIAL HEADINGS. TO FURTHER GUIDE THE READER
AMONG THESE, THERE ARE PROVIDED A SUBJECT INDEX AND
AND INDEX OF AUTHORS. (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-424 722

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA
HYDRAZINE AND HYDRAZINE DERIVATIVES. A DUC REPORT
BIBLIOGRAPHY. (U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR 1953-1963,
DEC 63 IV BARNES, REATHEA E. ;
RICE, RANDALL G. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*HYDRAZINE, BIBLIOGRAPHIES),
(*HYDRAZINE DERIVATIVES, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, HYDRAZINE), LIQUID GUN PROPELLANTS,
LIQUID ROCKET PROPELLANTS, SOLID ROCKET PROPELLANTS,
LIQUID ROCKET OXIDIZERS, GAS-GENERATING SYSTEMS,
CHEMICAL PROPERTIES, SYNTHESIS (CHEMISTRY), BORON
COMPOUNDS, FLUORIDES, HYBRID ROCKET PROPELLANTS,
ORGANIC NITROGEN COMPOUND (U)

IDENTIFIERS: 1963 (U)

THIS BIBLIOGRAPHY INCLUDES THE UNCLASSIFIED
UNLIMITED REFERENCES ON HYDRAZINE AND ITS DERIVATIVES
IN THE DUC COLLECTION FROM 1953 TO 1963. THE
REFERENCES ARE GROUPED INTO FIVE CATEGORIES BASED
PRIMARILY ON APPLICATIONS, AND A MISCELLANEOUS GROUP.
SUBGROUPS ARE LIMITED TO A FEW SPECIFIC COMPOUNDS
WHICH WERE DEEMED PARTICULARLY IMPORTANT OR THOSE ON
WHICH A NUMBER OF REFERENCES WERE FOUND.

(AUTHOR)

(U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-431 411

REDSTONE SCIENTIFIC INFORMATION CENTER REDSTONE ARSENAL
ALA

MANUFACTURING PROCESSES FOR LIQUID HYDROGEN, (U)

OCT 63 233P CARAS, GUS J. ;

MONITOR: RSIC 84

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (HYDROGEN, LIQUEFIED GASES),
(LIQUEFIED GASES, HYDROGEN), (BIBLIOGRAPHIES,
LIQUEFIED GASES), (CRYOGENICS, HYDROGEN),
ABSTRACTS, PRODUCTION, HANDLING, STORAGE, PROCESSING,
INDUSTRIAL EQUIPMENT, INDUSTRIAL PRODUCTION,
INDUSTRIAL PLANTS, MANUFACTURING METHODS,
INSTRUMENTATION (U)

IDENTIFIERS: ORTHO-PARA CONVERSION, 1963 (U)

THIS REPORT WAS PREPARED FOR THE MARSHALL SPACE
FLIGHT CENTER, NASA, HUNTSVILLE, ALABAMA;
CONSEQUENTLY, IT INCLUDES ONLY THE INFORMATION
REQUESTED. THE DATA PERTAIN TO MANUFACTURING AND
HANDLING PROCESSES AND EQUIPMENT NECESSARY FOR THE
PRODUCTION AND HANDLING OF LIQUID HYDROGEN. THE
FIRST PART SUMMARIZES VARIOUS PROCESSES COMMONLY
EMPLOYED FOR PRODUCTION AND PURIFICATION OF GASEOUS
HYDROGEN, LIQUEFACTION CYCLES, CONVERSION OF ORTHO-
HYDROGEN TO PARA-HYDROGEN, METHODS OF STORAGE AND
TRANSFER, AND SOME OF THE EQUIPMENT ASSOCIATED WITH
THESE PROCESSES. THE MAJOR LIQUID HYDROGEN
PRODUCING PLANTS ARE DESCRIBED, AND PROCESS FLOW
CHARTS FOR MOST PLANTS ARE GIVEN. THE SECOND PART
OF THIS REPORT IS AN ANNOTATED BIBLIOGRAPHY
CONTAINING 43 REFERENCES WRITTEN ON THIS SUBJECT
FROM 1958 TO 1963. THE BIBLIOGRAPHY IS DIVIDED
INTO SEVERAL SECTIONS ACCORDING TO SUBJECT, AND IS
FOLLOWED BY AN APPENDIX WHICH INCLUDES PERSONAL
AUTHOR, CORPORATE SOURCE, AND REPORT NUMBER INDEXES.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-432 344

MILWEST RESEARCH INST KANSAS CITY MO

THE STRUCTURE AND STRENGTH OF EPITAXIAL FILMS. (U)

DESCRIPTIVE NOTE: BIMONTHLY PROGRESS RPT. NO. 2, 17 DEC
6317 FEB 64,

34P LAVIK, M.; CUNNINGHAM, A. ;

BRYANT, P. ;

CONTRACT: N0464 00610

PROJ: 2742P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•THIN FILMS (STORAGE DEVICES),
EPITAXIAL GROWTH), (•EPITAXIAL GROWTH, THIN FILMS
(STORAGE DEVICES)), (•BIBLIOGRAPHIES, THIN FILMS
(STORAGE DEVICES)), STRUCTURAL PROPERTIES, VACUUM
APPARATUS, EVAPORATORS, SURFACE PROPERTIES, SHEAR
STRESSES (U)

IDENTIFIERS: 1964, STRENGTH (U)

THE LITERATURE REVIEW INITIATED IN THE PREVIOUS
REPORT HAS BEEN EXTENDED AND CATEGORIZED WITH A
COOLING SYSTEM. THE CODED BIBLIOGRAPHY CONTAINING
200 REFERENCES IS INCLUDED IN THIS REPORT. A
VACUUM SYSTEM, EVAPORATION CHAMBER, SUBSTRATE
HOLDER, AND STRAINING DEVICE HAVE BEEN DESIGNED.
A BRIEF DISCUSSION OF THESE UNITS, WITH DRAWINGS,
IS INCLUDED. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-433 095

RATTELLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS
INFORMATION CENTER
DEFENSE METALS INFORMATION CENTER SELECTED
ACCESSIONS, (U)

FEB 64 66P BANKS, MARY F. ;

CONTRACT: AF33 615 1121

PROJ: 8975

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (METALS, ABSTRACTS), INDEXES, COBALT,
NICKEL, STEEL, IRON, BERYLLIUM, TITANIUM, MAGNESIUM,
ALUMINIUM, NON-METALS, REFRACTORY METALS + ALLOYS,
NIOBIUM, MOLYBDENUM, TANTALUM, VANADIUM, TUNGSTEN,
METAL COATINGS, COMPOSITE MATERIALS, BIBLIOGRAPHIES (U)
IDENTIFIERS: 1964 (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AL-439 243

AEROSPACE CORP EL SEGUNDO CALIF

UNCLASSIFIED ANNOTATED BIBLIOGRAPHY RELATING TO THE
SYNTHESIS AND PHYSICAL PROPERTIES OF ALUMINUM HYDRIDE
AND CLOSELY RELATED COMPOUNDS, (U)

FEB 64 18P AREISACHER, PETER ;

REPT. NO. TOR269 4210 10 4

CONTRACT: AFO4 695 269

MONITOR: SSC TOR64 17

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ALUMINUM COMPOUNDS, HYDRIDES),
(HYDRIDES, ALUMINUM COMPOUNDS), (BIBLIOGRAPHIES,
ALUMINUM COMPOUNDS), SYNTHESIS (CHEMISTRY), MOLECULAR
SPECTROSCOPY, ABSORPTION SPECTRA, SPECTRA (VISIBLE AND
ULTRAVIOLET), CHEMICAL REACTIONS, COMPLEX COMPOUNDS,
CHEMICAL PROPERTIES (U)

IDENTIFIERS: ALUMINUM HYDRIDE (U)

THE OPEN LITERATURE FOR THE PERIOD 1937 THROUGH
1963 WAS SEARCHED FOR ALL REFERENCES ON THE SUBJECT
OF ALUMINUM HYDRIDE. MANY OF THE REFERENCES HAVE
PROVED TO BE SOMEWHAT ERRONEOUS IN THEIR CONCLUSIONS
IN THE LIGHT OF PRESENT DAY KNOWLEDGE ON THE SUBJECT.
HOWEVER, FOR COMPLETENESS ALL ARE INCLUDED. THE
REFERENCES ARE LISTED CHRONOLOGICALLY BY YEAR. THE
TITLE OF THE INVESTIGATION IS LISTED UNDER EACH
REFERENCE. BRIEF PERTINENT DATA ARE INCLUDED WHERE
AVAILABLE. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-452 217

PICATINNY ARSENAL DOVER A. J. FELTHAM RESEARCH LABS
A BIBLIOGRAPHY ON SELECTED PROPERTIES OF THE SODIUM,
POTASSIUM, AND RUBIDIUM NITRATES, CHLORATES, AND
BROMATES. (U)

GCT 64 29P KHASNER, SAUL ; TOWNSEND, PETER

D. 5

PROJ: ICJ10501AJ07

MONITOR: PA TR3161

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, ALKALI METAL
COMPOUNDS), (ALKALI METAL COMPOUNDS, PHYSICAL
PROPERTIES), NITRATES, CHLORATES, PYROLYSIS, BROMATES,
POTASSIUM COMPOUNDS, RUBIDIUM COMPOUNDS, SODIUM
COMPOUNDS, CRYSTAL GROWTH, MAGNETIC PROPERTIES,
RADIATION DAMAGE, OPTICAL PROPERTIES, ELECTRONS, SPIN,
RESONANCE (U)

IDENTIFIERS: ELECTRON SPIN RESONANCE, POTASSIUM
NITRATE, POTASSIUM BROMATE, POTASSIUM CHLORATE, SODIUM
CHLORATE, SODIUM NITRATE, SODIUM BROMATE, RUBIDIUM
CHLORATE, RUBIDIUM NITRATE, RUBIDIUM BROMATE (U)

THIS BIBLIOGRAPHY CONTAINS REFERENCES ON THE
NITRATES, CHLORATES, AND BROMATES OF SODIUM,
POTASSIUM, AND RUBIDIUM WITH PARTICULAR EMPHASIS ON
THE FOLLOWING SUBJECTS: CRYSTAL GROWTH, THERMAL
DECOMPOSITION, ELECTRON SPIN RESONANCE, MAGNETIC AND
OPTICAL PROPERTIES, AND RADIATION DAMAGE.

(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-423 361

QUARTERMASTER RESEARCH AND ENGINEERING COMMAND NATICK
MASS

THE MICROBIOLOGICAL DETERIORATION OF HYDROCARBONS AND
THE RELATED DEGRADATION OF EQUIPMENT USED FOR THE
STORAGE, DISTRIBUTION AND HANDLING OF PETROLEUM
PRODUCTS. (U)

DESCRIPTIVE NOTE: A SELECTED BIBLIOGRAPHY,
MAR 62 16P BIRKOLZ, DONALD O. ;
ROGERS, MORRIS W. ; KAPLAN, ARTHUR M. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUPPLEMENT NO. 1 TO MICROBIOLOGICAL
SERIES REPORT NO. 5, DATED JUN 61.

DESCRIPTORS: (HYDROCARBONS, DEGRADATION),
(DEGRADATION, MICROORGANISMS), BIBLIOGRAPHIES,
STORAGE, CORROSION, PETROLEUM INDUSTRY, PIPES, SOILS,
SULFUR COMPOUNDS, INHIBITION, PETROLEUM PRODUCTS,
MICROBIOLOGY (U)

THIS BIBLIOGRAPHY IS A SUPPLEMENT TO THE
MICROBIOLOGICAL SERIES REPORT NO. 5, THE
MICROBIOLOGICAL DETERIORATION OF HYDROCARBONS
AND THE RELATED DEGRADATION OF EQUIPMENT USED
FOR THE STORAGE, DISTRIBUTION AND HANDLING OF
PETROLEUM PRODUCTS, CHEMICALS AND PLASTICS
DIVISION, JUNE 1961. THESE REFERENCES HAVE
BEEN COMPILED FOR USE IN THE QUARTERMASTER RESEARCH
PROGRAM ON THE MICROBIOLOGICAL DETERIORATION OF
FIELDS, FUEL STORAGE TANKS, AND PIPELINES.
(AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-454 479

REDSTONE SCIENTIFIC INFORMATION CENTER REDSTONE ARSENAL
ALA
HAZARDS DUE TO HYDROGEN ABOARD A SPACE VEHICLE, (U)
SEP 64 IYP CARAS, GUS J. ;
REPT. NO. 291

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*HYDROGEN, *BIBLIOGRAPHIES),
(*SPACECRAFT), SPACE FLIGHT, HAZARDS, MANNED
SPACECRAFT, GAS LEAKS, FIRES, EXPLOSIONS,
SAFETY, FIRE EXTINGUISHERS, SPACECRAFT CABINS,
LIQUID ROCKET FUELS, LIQUEFIED GASES (U)

THIS BIBLIOGRAPHY CONSISTS OF TWENTY-THREE
ANNOTATED REFERENCES ON THE SUBJECT OF HAZARDS TO
SPACE VEHICLES AS A RESULT OF HYDROGEN LEAKS. THE
REFERENCES TREAT SUCH TOPICS AS HYDROGEN LEAK
DETECTION AND SUPPRESSION OF FIRES AND EXPLOSIONS.
SINCE THE SUBJECT OF HYDROGEN SAFETY IS RATHER
BROAD, AN ATTEMPT WAS MADE TO INCLUDE ONLY THOSE
REFERENCES WHICH WERE RELATED IN SOME WAY TO SAFETY
OF SPACE CABINS OR SIMILAR COMPARTMENTS.
(AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-455 164

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

STRUCTURE OF ORGANIC CRYSTALS. (ANNOTATED
BIBLIOGRAPHY).

(U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR 1960-1962.

JUL 64 98P

REPT. NO. 064 80

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT ON SURVEYS OF SOVIET-BLOC
SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (ORGANIC COMPOUNDS, BIBLIOGRAPHIES),
(CRYSTAL STRUCTURE, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, CRYSTALLOGRAPHY), SINGLE CRYSTALS,
CRYSTALS, HYDROCARBONS, AROMATIC COMPOUNDS, ORGANIC
NITROGEN COMPOUNDS, CARBOXYLIC ACIDS, ORGANIC SULFUR
COMPOUNDS, METALORGANIC COMPOUNDS, POLYMERS, SOLID
STATE PHYSICS, LUMINESCENCE, SCIENTIFIC RESEARCH,
ABSTRACTING, USSR, REVIEWS

(U)

THIS PRELIMINARY ANNOTATED BIBLIOGRAPHY WAS
PREPARED IN RESPONSE TO ATO WORK ASSIGNMENT NO.
41, TASK 10. IT IS BASED ON SOVIET OPEN SOURCE
MATERIALS AVAILABLE AT THE AEROSPACE TECHNOLOGY
DIVISION AND THE LIBRARY OF CONGRESS, AND
COVERS THE PERIOD 1960-1962 INCLUSIVE, WITH REVIEW
ARTICLES ON THE SUBJECT FROM 1950-1960. A LIST OF
THE PERIODICALS FULLY EXPLOITED IS GIVEN IN AN INDEX
OF SOURCES. EACH ENTRY IS PROVIDED EITHER WITH A
CHEMICAL ABSTRACT (CA) REFERENCE, A TRANSLATION
REFERENCE, OR AN ABSTRACT (SOME PREPARED BY AID)
OR ANNOTATION. THE BIBLIOGRAPHY IS DIVIDED INTO
12 PARTS ARRANGED IN ACCORDANCE WITH THE SUBDIVISIONS
GENERALLY ACCEPTED IN ORGANIC CHEMISTRY. A LISTING
OF PRINCIPAL SCIENTISTS AND ASSOCIATED FACILITIES IS
ALSO GIVEN. THE INDEXES PROVIDED ARE KEYED TO
ENTRY NUMBERS AND CAN BE USED TO FIND THE FACILITY OR
AUTHOR OF INDIVIDUAL PAPERS ASSOCIATED WITH A
SPECIFIC SUBJECT. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-455 162

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

CHEMISTRY OF RARE EARTHS AND ACTINIDES. COMPILATION
OF ABSTRACTS, ANNOTATIONS, AND SUMMARIES. (U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR 1960-1962.

JUL 64 191P

REPT. NO. U64 81

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT ON SURVEYS OF SOVIET-BLOC
SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (*RARE EARTH COMPOUNDS, BIBLIOGRAPHIES),
(*ACTINIDE SERIES COMPOUNDS, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, RARE EARTH COMPOUNDS), RARE EARTH
ELEMENTS, METALORGANIC COMPOUNDS, COMPLEX COMPOUNDS,
CHEMISTRY, RADIOCHEMISTRY, SCIENTIFIC RESEARCH,
INDEXES, ABSTRACTING, USSR (U)
IDENTIFIERS: CHELATE COMPOUNDS (U)

THIS PRELIMINARY ANNOTATED BIBLIOGRAPHY WAS
PREPARED IN RESPONSE TO ATD WORK ASSIGNMENT NO.
41, TASK B. IT IS BASED ON SOVIET OPEN SOURCE
MATERIALS AVAILABLE AT THE AEROSPACE TECHNOLOGY
DIVISION AND THE LIBRARY OF CONGRESS AND COVERS
THE PERIOD 1960-1962. A LIST OF THE SOVIET
JOURNALS SEARCHED IS PROVIDED. THE LIST INCLUDES
AVAILABLE TRANSLATION JOURNALS AND LIBRARY OF
CONGRESS CALL NUMBERS FOR BOTH ORIGINAL SOURCES AND
TRANSLATIONS. EACH ENTRY IS PROVIDED EITHER WITH A
CHEMICAL ABSTRACT REFERENCE, A TRANSLATION REFERENCE,
OR ABSTRACTS. DUE TO THE ABUNDANCE OF PUBLISHED
ARTICLES ON THE CHEMISTRY OF RARE EARTH ELEMENTS AND
THE ACTINIDES, THE LISTING WAS LIMITED IN SCOPE, AND
ONLY ENTRIES OF INTEREST SELECTED. THE DIVISION
INTO EIGHT PARTS IS ARRANGED IN ACCORDANCE WITH BEST
INTEREST OF THE REQUESTOR. TABLES OF GENERAL
TOPICS ARE INCLUDED TO FACILITATE THE LOCATION OF THE
SUBJECT OF INTEREST. A LISTING OF PRINCIPAL
SCIENTISTS AND ASSOCIATED FACILITIES IS GIVEN. THE
INDEXES PROVIDED ARE KEYED TO ENTRY NUMBERS. THESE
INDEXES CAN BE USED TO FIND THE AUTHOR OR FACILITY OF
INDIVIDUAL PAPERS ASSOCIATED WITH A SPECIFIC SUBJECT.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-456 734

BATTELLE MEMORIAL INST COLUMBUS OHIO
PHYSICAL AND CHEMICAL PROPERTIES OF BIS(ANILINO)
SILANES AND 4,4'-DIHYDROXYBIPHENYL.

(U)

DESCRIPTIVE NOTE: DATA SHEETS FOR 1940-11-049940-1964,
JUL 64 32P CPENEANS, G. E. ; BERRY, D. A.

CONTRACT: DADI U21AMC2037
MONITOR: RSIC 257

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*POLYCYCLIC COMPOUNDS, PHENOLS),
(*PHENOLS, POLYCYCLIC COMPOUNDS), (*SILANES,
AMIMAMINES), (*AMINES, SILANES), REVIEWS, SYNTHESIS,
MOLECULAR STRUCTURE, PHYSICAL PROPERTIES, CHEMICAL
REACTIONS, BIBLIOGRAPHIES, DATA, CHEMICAL
PROPERTIES

(U)

IDENTIFIERS: SILANES/BIS(ANILINO),
DIHYDROXYBIPHENYL(4-4')

(U)

THIS REPORT, IN THE FORM OF DATA SHEETS, WAS
DEVELOPED FROM A SEARCH OF THE LITERATURE FOR
BIS(ANILINO)SILANES FROM 1960-1964, AND FOR
4,4'-DIHYDROXYBIPHENYL COMPOUNDS FROM 1940-1964.
THE NAME AND STRUCTURE OF THE COMPOUND ARE GIVEN
TOGETHER WITH SYNTHESIS, REACTIONS, USES, AND
AVAILABLE PHYSICAL PROPERTIES. REFERENCES ARE ALSO
LISTED ON THE DATA SHEETS, AND COMMENTS ARE MADE
WHERE THE AUTHOR WAS ABLE TO REACH CONCLUSIONS.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-454 761

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

ORGANOSILICON AND ORGANOMETALLIC COMPOUNDS. (U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR 1958-1963.

JUN 64 IV

REPT. NO. D 64 64

TASK: 1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT ON SURVEYS OF SOVIET-BLOC
SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (•METALORGANIC COMPOUNDS,
BIBLIOGRAPHIES), (•BIBLIOGRAPHIES, METALORGANIC
COMPOUNDS), ABSTRACTS, USSR, SILICON COMPOUNDS,
MAGNESIUM COMPOUNDS, POTASSIUM COMPOUNDS, SODIUM
COMPOUNDS (U)

ANNOTATED BIBLIOGRAPHY OF SOVIETBLOC LITERATURE ON
METALORGANIC COMPOUNDS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-456 764

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

BORON, ITS COMPOUNDS, AND ITS ALLOYS, COMPILATION OF
ABSTRACTS. (U)

DESCRIPTIVE NOTE: REPT. FOR 1962.

JUL 64 2P

REPT. NO. 1,064 74

TASK: 7A

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT ON SURVEYS OF SOVIET-BLOC
SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (BORON, ABSTRACTING), BORON COMPOUNDS,
BORIDES, BORON ALLOYS, ELECTRICAL PROPERTIES, PHYSICAL
PROPERTIES, USSR, DIFFUSION, STABILITY, RESISTANCE
(ELECTRICAL), SINGLE CRYSTALS, BIBLIOGRAPHIES (U)

COMPILATION OF ABSTRACTS OF SOVIET LITERATURE ON BORON,
BORON COMPOUNDS AND BORON ALLOYS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-460 094

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

PURIFICATION OF BORON. (U)

DESCRIPTIVE NOTE: SURVEYS OF SOVIET-BLOC SCIENTIFIC
AND TECHNICAL LITERATURE.

JUN 64 3P

REPT. NO. AID-11-64-60

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BORON, PURIFICATION),
(*BIBLIOGRAPHIES, BORON), USSR (U)

PURIFICATION OF BORON. A BIBLIOGRAPHY OF REFERENCES TO
SOVIET BLOC LITERATURE.

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-460 446

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

ORGANOSILICON AND ORGANOMETALLIC COMPOUNDS. (U)

DESCRIPTIVE NOTE: ANNOTATED BIBLIOGRAPHY BASED ON
SOVIET-BLOC OPEN LITERATURE (PRELIMINARY. PT.
2).

MAY 64 107P

REPT. NO. ATD-U-64-48

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (METALORGANIC COMPOUNDS,
BIBLIOGRAPHIES), (BIBLIOGRAPHIES, METALORGANIC
COMPOUNDS), ABSTRACTING, SILICON COMPOUNDS, GERMANIUM
COMPOUNDS, SCIENTIFIC RESEARCH, PERIODICALS, USSR (U)

THE SECOND PART OF THE BIBLIOGRAPHY HAS BEEN
PREPARED IN RESPONSE TO AID WORK ASSIGNMENT
NO. 41, OAR NO. 58, TASK 1. IT IS BASED ON
SOVIET-BLOC OPEN LITERATURE AVAILABLE AT THE
AEROSPACE INFORMATION DIVISION AND THE
LIBRARY OF CONGRESS, AND COVERS THE PERIOD FROM
1953 THROUGH MAY 1963. THE ENTRIES FOR THIS PART
WERE SELECTED FROM SOURCES NOT COVERED IN THE FIRST
PART OF THE REPORT FOR APPROXIMATELY THE SAME TIME
PERIOD. THERE ARE 191 ANNOTATED ENTRIES FROM
JOURNALS REPRESENTING 21 DIFFERENT TITLES. THE
BIBLIOGRAPHY WAS ARRANGED INTO CHAPTERS COVERING
ORGANOSILICON COMPOUNDS AND ORGANOGermanium
COMPOUNDS. ORGANOMETALLIC COMPOUNDS, I.E.,
ORGANOSODIUM, ORGANOPOTASSIUM, ORGANOLITHIUM, AND
ORGANOMAGNESIUM COMPOUNDS WILL BE COVERED IN PART 2
OF THIS REPORT TO BE PREPARED IN THE NEAR FUTURE.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000250

AD-442 691

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
DEGRADATION AND TOXICITY OF POLYTETRAFLUOROETHYLENE
POLYURETHANES AND OTHER PLASTIC MATERIALS. (U)
DESCRIPTIVE NOTE: SPECIAL BIBLIOGRAPHY.
FEB 60 16P EVANS, GEORGE R. ;
REPT. NO. SB-60-8

UNCLASSIFIED REPORT

AVAILABILITY: MICROFILM ONLY AFTER ORIGINAL COPIES
EXHAUSTED.

SUPPLEMENTARY NOTE:

DESCRIPTORS: (HALOGENATED HYDROCARBONS,
BIBLIOGRAPHIES), (ISOCYANATE PLASTICS,
BIBLIOGRAPHIES), (BIBLIOGRAPHIES, PLASTICS),
DEGRADATION, TOXICITY, PYROLYSIS, OXIDATION, RUBBER,
ELASTOMERS, STABILITY, THERMAL PROPERTIES, PHYSIOLOGY,
ALKENES, FLUORINE COMPOUNDS, POLYMERS (U)
IDENTIFIERS: TETRAFLUROETHYLENE (U)

BIBLIOGRAPHY ON THE DEGRADATION AND TOXICITY OF
POLYTETRAFLUROETHYLENE AND POLYURETHANES.

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-467 492

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
HIGH TEMPERATURE STRAIN GAGES AND BONDING
MATERIALS.

(U)

DESCRIPTIVE NOTE: SPECIAL BIBLIOGRAPHY,
FEB 60 IIP BELTRAN, A. A. ;
REPT. NO. SB-60 9

UNCLASSIFIED REPORT

DISTRIBUTION: MICROFICHE ONLY AFTER ORIGINAL COPIES
EXHAUSTED.

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•STRAIN GAGES, BIBLIOGRAPHIES),
(•BIBLIOGRAPHIES, STRAIN GAGES), (•ADHESIVES, HIGH-
TEMPERATURE RESEARCH), CERAMIC MATERIALS

(U)

BIBLIOGRAPHY ON HIGH-TEMPERATURE STRAIN GAGES.

UNCLASSIFIED

DLC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-463 49)

CHEMICAL RESEARCH AND DEVELOPMENT LABS EDGEMOOD ARSENAL
MD

SEVENTEENTH MATERIALS REVIEW, (U)

APR 65 93P LYEM, ARTHUR J

REPT. NO. CMDL SP 5-7

PROJ: IC>22201A075

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MATERIALS, REVIEWS), (*POLYMERS,
REVIEWS), (*ALLOYS, REVIEWS), (*PLASTICS, REVIEWS),
ABSTRACTING, METALS, METAL COATINGS, CORROSION,
MATERIAL FORMING, BIBLIOGRAPHIES, PROCESSING,
MANUFACTURING METHODS, TOXICITY, POLYMERIZATION,
INORGANIC COMPOUNDS, FIBERS (SYNTHETIC), ORGANIC
COMPOUNDS, RADIATION DAMAGE, MEDICAL RESEARCH,
TEXTILES (U)

THIS REPORT PRESENTS IMPORTANT NEW TECHNICAL AND
SCIENTIFIC INFORMATION ABOUT MATERIALS RESEARCH HERE
AND ABROAD, PRINCIPALLY IN THE POLYMER AND PLASTICS
FIELDS. INFORMATION ABOUT RECENT TECHNOLOGICAL
ADVANCES IS PRESENTED UNDER FIVE MAJOR HEADINGS:
(1) HIGH POLYMERS, (2) PLASTIC MATERIALS,
(3) SYNTHETIC FIBERS, (4) MISCELLANEOUS
ORGANIC AND INORGANIC COMPOUNDS, AND (5) METALS
AND ALLOYS. OVER 300 ARTICLES WERE ABSTRACTED FROM
VARIOUS PUBLICATIONS AND LANGUAGES. MATERIALS AND
TECHNOLOGICAL ASPECTS ARE DISCUSSED, AND EACH
ABSTRACT IS NUMERICALLY KEYED TO ITS REFERENCE IN
THE BIBLIOGRAPHY. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-464 157

HUGHES AIRCRAFT CO FULLER CITY CALIF ELECTRONIC PROPERTIES
INFORMATION CENTER

ELECTRON MOBILITY IN ALIPHATIC HYDROCARBONS AS
RELATED TO ORGANIC INSULATION BREAKDOWN. (U)
FEB 65 IV MILEK, JOHN T. ;

REPT. NO. EPIC-5-5

CONTRACT: AF33 615 2460

PROJ: 7341

TASK: 734103

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ALIPHATIC COMPOUNDS, ELECTRIC
INSULATION), (HYDROCARBONS, ELECTRIC
INSULATION), (DIELECTRICS, HYDROCARBONS),
DIELECTRIC PROPERTIES, GASES, LIQUIDS, SOLIDS,
IONS, MOTION, ELECTRONS, SEMICONDUCTORS,
BIBLIOGRAPHIES, MATHEMATICAL ANALYSIS,
EQUATIONS, VOLTAGE, MEASUREMENT, ELECTRICAL
PROPERTIES (U)

IDENTIFIERS: ELECTRON MOBILITY, ELECTRIC
STRENGTH (U)

A LITERATURE SEARCH WAS MADE TO OBTAIN INFORMATION
ON THE ELECTRON MOBILITY IN ALIPHATIC HYDROCARBONS AS
RELATED TO ORGANIC INSULATION BREAKDOWN. BASIC
TERMINOLOGY AND INFORMATION ON ELECTRON MOBILITY AND
ELECTRIC BREAKDOWN ARE INCLUDED AS WELL AS A
DISCUSSION OF SELECTED IMPORTANT LITERATURE
REFERENCES. A BRIEF DISCUSSION OR ANNOTATION OF
MOBILITY AND ELECTRIC BREAKDOWN REFERENCES AS WELL AS
OTHER RELATED OR PERTINENT DATA IS GIVEN FOR A WIDE
RANGE OF ALIPHATIC HYDROCARBON MATERIALS IN THE
GASEOUS, LIQUID AND SOLID STATES. FINALLY, A
BIBLIOGRAPHY ON DIELECTRIC, GASEOUS, LIQUID AND SOLID
ALIPHATIC MATERIALS BREAKDOWN IS APPENDED.
(AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-464 321

STAFFORD RESEARCH INST MENLO PARK CALIF
BIBLIOGRAPHY ON ELECTROSTATIC PHENOMENA IN AEROSOL
DISSEMINATION. (U)
DESCRIPTIVE NOTE: SPECIAL TECHNICAL REPT. NO. 1,
AUG 69 1972 PLAKE, D. E. SLAPPE, C. E. ;
CONTRACT: DA19 035AMC122A
PROJ: PAJ4900

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (AEROSOLS, ELECTROSTATICS),
(AEROSOL GENERATORS, ELECTROSTATICS),
(ELECTROSTATICS, AEROSOLS), (BIBLIOGRAPHIES,
AEROSOLS), SCATTERING, DISTRIBUTION, SETS,
ROADERS, PARTICLES, DROPS, ATOMIZATION,
SCIENTIFIC RESEARCH, ABSTRACTING (U)

THIS BIBLIOGRAPHY REPRESENTS A SURVEY OF PUBLISHED
INFORMATION RELEVANT TO THE MANNER IN WHICH
ELECTROSTATIC PHENOMENA MIGHT INFLUENCE DISSEMINATION
OF CHEMICAL WARFARE AGENTS, COVERING BOTH THE OPEN
LITERATURE AND REPORTS OF GOVERNMENT-SPONSORED
RESEARCH. ABSTRACTS ARE INCLUDED FOR MOST OF THE
1025 REFERENCES CITED. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-471 647

BATTELLE MEMORIAL INST COLUMBUS OHIO
THE EFFECTS OF GAS OCCLUSIONS AND STRAINS ON THE
MAGNETIC PROPERTIES OF THIN PERMALLOY FILMS. (U)
DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR 1955 - JUN 65,
MAY 65 273P NICHOLSON, R. J.;
CONTRACT: DA01 U21AMC11706Z
MONITOR: RSIC 416

UNCLASSIFIED REPORT

DESCRIPTORS: (•THIN FILMS (STORAGE DEVICES),
NICKEL ALLOYS), (•NICKEL ALLOYS, THIN
FILMS (STORAGE DEVICES)), (•IRON ALLOYS, THIN
FILMS (STORAGE DEVICES)), METAL FILMS, MAGNETIC
MATERIALS, MAGNETIC PROPERTIES,
STRAIN (MECHANICS), ANISOTROPY,
MAGNETOSTRICTION, IMPURITIES, CRYSTAL LATTICE
DEFECTS, CRYSTALS, EPITAXIAL GROWTH, VAPOR
PLATING, VACUUM, GASES, SURFACE PROPERTIES,
STRESSES, FERROMAGNETIC MATERIALS, FILMS,
ELECTRONIC SWITCHES, COMPUTER STORAGE DEVICES,
BIBLIOGRAPHIES, REVIEWS (U)
IDENTIFIERS: PERMALLOY, THIN FILMS (U)

THIS REPORT COMPRISES A SELECTIVE SURVEY OF THE
PRESENT KNOWLEDGE OF THE EFFECTS OF OCCLUDED GASES
AND STRAINS ON THE MAGNETIC PROPERTIES OF PERMALLOY
FILMS, PARTICULARLY THOSE WHICH HAVE SIGNIFICANCE
FOR COMPUTER SWITCHING APPLICATIONS. OTHER
POSSIBLE TECHNIQUES FOR ACCOMPLISHING FUTURE COMPUTER
SWITCHING FUNCTIONS AND MAGNETIC FILM PROPERTIES ARE
REVIEWED. BULK PROPERTIES ARE DESCRIBED AND
COMPARED WITH CORRESPONDING THIN FILM PROPERTIES.
THE MAGNETIC PROPERTIES OF EPITAXIAL PERMALLOY,
EPITAXIAL NICKEL, EPITAXIAL IRON, POLYCRYSTALLINE
NICKEL, AND POLYCRYSTALLINE IRON FILMS ARE DISCUSSED.
THE EFFECTS OF VARIOUS OCCLUDED GASES ON MAGNETIC
FILM PROPERTIES ARE SUMMARIZED. STRESSES PRESENT
IN EVAPORATED FILMS AND THEIR SIGNIFICANCE IN
DETERMINING THE MAGNETIC PROPERTIES OF THIN FILMS ARE
CONSIDERED. A SELECTED BIBLIOGRAPHY OF 549
REFERENCES IS INCLUDED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-601 732

NORTH CAROLINA UNIV CHAPEL HILL

STUDIES IN THE CHEMISTRY OF METAL-CHELONATES. (U)

DESCRIPTIVE NOTE: FINAL REPT.,

NOV 62 10P REILLEY, CHARLES N. ;

CONTRACT: AF49 638 330

MONITOR: AFOSR 4312

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (CHELATE COMPOUNDS, REVIEWS),
METALORGANIC COMPOUNDS, COMPLEX COMPOUNDS,
ELECTROCHEMISTRY, BIOCHEMISTRY, CHEMICAL ANALYSIS,
SCIENTIFIC RESEARCH, BIBLIOGRAPHIES, ABSTRACTS (U)
IDENTIFIERS: SEQUESTERING AGENTS (U)

A SUMMARY OF WORK DONE UNDER THE CONTRACT IS
FOLLOWED BY AN ANNOTATED BIBLIOGRAPHY OF THE 17
PUBLISHED REPORTS GENERATED BY THE RESEARCHES. (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-A02 163

MATTELLE MEMORIAL INST COLUMBUS OHIO RADIATION EFFECTS
INFORMATION CENTER

MONTHLY ACCESSION LIST. ABSTRACT NO. 24313 TO 24385,
PART I. (U)

DESCRIPTIVE NOTE: REPT. FOR 1-30 JUN 64.

JUL 64 3GP

REPT. NO. MAL76

CONTRACT: AF33 615 1124 ,AF33 657 10085

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (RADIATION CHEMISTRY, MATERIALS),
(BIBLIOGRAPHIES, RADIATION CHEMISTRY), ABSTRACTS,
METALS, CERAMIC MATERIALS, ORGANIC MATERIALS,
POLYMERS, ELECTRONIC EQUIPMENT, SINGLE CRYSTALS,
INORGANIC COMPOUNDS, RADIATION DAMAGE, OSCILLATORS,
ACCELEROMETERS, NUCLEAR REACTORS, HANDBOOKS, SPACE
ENVIRONMENTAL CONDITIONS, RADIATION MEASUREMENT
SYSTEMS (U)

A BIBLIOGRAPHY OF 73 ABSTRACTS IS GIVEN ON THE
EFFECTS OF RADIATION ON METALLIC, CERAMIC, ORGANIC,
POLYMERIC, AND INORGANIC MATERIALS; ELECTRONIC
MATERIALS, COMPONENTS, AND DEVICES; TEST FACILITIES;
SPACE ENVIRONMENT AND EFFECTS ON MATERIALS; AND
EXPERIMENTAL DEVICES AND TECHNIQUES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000750

AD-606 049

KEM-TECH LABS INC BATON ROUGE LA
ATOMIC ABSORPTION SPECTROSCOPY.

(U)

DESCRIPTIVE NOTE: FINAL REPT.

APR 63 IV

CONTRACT: AF33 602 2426

PROJ: 5534

TASK: 553402

MONITOR: RADC , TDR63 209

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•ATOMIC SPECTROSCOPY, CHEMICAL ANALYSIS), (•CHEMICAL ANALYSIS, ATOMIC SPECTROSCOPY), QUANTITATIVE ANALYSIS, ABSORPTION SPECTRUM, ALUMINUM, CALCIUM, FLUORIDES, LEAD, SULFATES, COPPER, MAGNESIUM, SPECTROPHOTOMETERS, BIBLIOGRAPHIES (U)

THE REPORT PRESENTS A DISCUSSION ON THE FINAL INSTRUMENTATION DEVELOPED AT KEM-TECH LABORATORIES. THE DETAILED USE OF THE INSTRUMENT IN ACTUAL ANALYSIS IS DESCRIBED. PROCEDURES AND WORKING CURVES ARE PRESENTED FOR ALUMINUM, CALCIUM, FLUORIDE, LEAD, SULFATE, COPPER, AND MAGNESIUM. A LIST OF 236 REFERENCES IS INCLUDED. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-607 632

TRW SPACE TECHNOLOGY LABS LOS ANGELES CALIF
NUCLEATE BOILING. A LITERATURE SURVEY OF
UNCLASSIFIED REPORTS,

MAR 60 25P TREW, JAMES R. ;
REPT. NO. STL-R-31, STL/GM-60-5111-2

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (NUCLEATE BOILING, REVIEWS), HEAT
TRANSFER, BUBBLES, THERMODYNAMICS, BIBLIOGRAPHIES,
ABSTRACTING

(U)

SIXTY-FOUR ABSTRACTS OF PAPERS FROM THE OPEN
LITERATURE AND GOVERNMENT REPORTS ARE INCLUDED.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-608 632

UTAH STATE UNIV LOGAN

THE EFFECT OF STRUCTURAL CHANGES ON THE PYROLYSIS OF
ORGANIC ESTERS.

(U)

DESCRIPTIVE NOTE: FINAL REPT.,

OCT 64

6P

SMITH, GRANT GILL ;

CONTRACT: AF AFOSR62 268

MONITOR: AFOSR ,

64 2343

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ESTERS, PYROLYSIS), MOLECULAR
STRUCTURE, REACTION KINETICS, THERMOCHEMISTRY, VAPORS,
MOLECULAR ISOMERISM, BIBLIOGRAPHIES

(U)

A BRIEF SUMMARY IS GIVEN OF SYSTEMATIC STUDIES
CONCERNING LINEAR FREE ENERGY RELATIONSHIPS IN
SOLVENT FREE SYSTEMS WHERE THE REACTION RATES ARE
INFLUENCED BY SUBSTITUENTS. A BIBLIOGRAPHY OF THE
14 PUBLISHED PAPERS GENERATED UNDER THE CONTRACT IS
INCLUDED.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-609 310

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

LUMINESCENCE OF COMPLEX MOLECULES, BIBLIOGRAPHY. (U)

DESCRIPTIVE NOTE: REPT. NO. 3, APR - SEP 63.

SEP 64 41P

TASK: 4

MONITOR: ATD , U 64 97

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COMPLEX COMPOUNDS, LUMINESCENCE),
(*BIBLIOGRAPHIES, COMPLEX COMPOUNDS), ORGANIC
COMPOUNDS, MOLECULES, POLARIZATION, USSR (U)

A BIBLIOGRAPHY OF 169 REFERENCES IS GIVEN ON
LUMINESCENCE OF COMPLEX MOLECULES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000250

AD-610 754

AEROSPACE RESEARCH LABS WRIGHT-PATTERSON AFB OHIO
AN ANNOTATED BIBLIOGRAPHY OF RESEARCH ON THE
STRUCTURAL AND PHYSICAL PROPERTIES OF ZIRCONIA, (U)

NOV 64 94P PERER, BERTHOLD C. ;

REPT. NO. 64-205

PROJ: 7021

TASK: 702106

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, ZIRCONIUM COMPOUNDS),
(ZIRCONIUM COMPOUNDS, OXIDES), MINERALS, CRYSTAL
STRUCTURE, IMPURITIES, X-RAY DIFFRACTION ANALYSIS,
PHASE STUDIES, STABILITY, TITANIUM COMPOUNDS,
STRUCTURAL PROPERTIES, PHYSICAL PROPERTIES, CERAMIC
MATERIALS (U)

IDENTIFIERS: ZIRCONIA (U)

THIS BIBLIOGRAPHY COVERS THE LITERATURE OF THE PAST
35 YEARS ALTHOUGH SOME OLDER REFERENCES ARE INCLUDED
BECAUSE THEY ARE OFTEN QUOTED IN TEXTS AND RECENT
PUBLICATIONS. THREE HUNDRED AND SEVEN REFERENCES
HAVE BEEN INDIVIDUALLY EVALUATED. THE DISCUSSION
OF THE SUBJECT IS ARRANGED IN TWELVE SECTIONS DEALING
WITH TOPICS OF PARTICULAR INTEREST TO THE RESEARCHER.
IT IS EMPHASIZED THAT THE MAIN REASONS FOR
CONFLICTING LITERATURE DATA CONCERNING THE STRUCTURAL
AND PHYSICAL PROPERTIES OF ZIRCONIA ARE DUE TO
INADEQUATELY DEFINED TEST MATERIALS AND INSUFFICIENT
CONTROL OF EXPERIMENTAL CONDITIONS. IT FOLLOWS
THAT MANY REPORTED DATA ARE SUBJECT TO REVISION AS
MORE DEFINITE VALUES BECOME AVAILABLE THROUGH PRESENT
AND FUTURE RESEARCH UNDER CAREFULLY DEFINED
CONDITIONS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-613 527

AKRON UNIV OHIO INST OF RUBBER RESEARCH
LOW TEMPERATURE POLYMERIZATION STUDIES.

(U)

DESCRIPTIVE NOTE: PROGRESS REPT. NO. 5, 1 JAN-31 MAR
65,

APR 65 JUP MORTON, MAURICE ;
CONTRACT: AF04 611 9694
PROJ: 3148

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-610 038.

DESCRIPTORS: (•POLYMERIZATION, RADIATION CHEMISTRY),
(•RADIATION CHEMISTRY, POLYMERIZATION),
(•THERMOCHEMISTRY, POLYMERIZATION), LOW-TEMPERATURE
RESEARCH, ACRYLONITRILE POLYMERS, VINYL PLASTICS,
HALOCARBON PLASTICS, ALDEHYDES, KETONES, NITRILES,
COPOLYMERIZATION, GAMMA RAYS, BIBLIOGRAPHIES (U)

IDENTIFIERS: FUMARONITRILE, HEXAFLUORO ACETONE,
HEXAFLUORO PROPYLENE, PENTAFLUORO PROPIONALDEHYDE,
PERFLUORO OCTANAL, TRIFLUORO ACETALDEHYDE (U)

THE REPORT CONTAINS RESULTS ON THE POLYMERIZATION
OR ATTEMPTED POLYMERIZATION OF THE FOLLOWING MONOMERS
BY GAMMA RADIATION (7.6 RAD/S/HR.) AT REDUCED
TEMPERATURES: ACRYLONITRILE, HEXAFLUOROPROPYLENE,
FUMARONITRILE, HEXAFLUOROACETONE,
TRIFLUOROACETALDEHYDE, PERFLUOROCTANAL, AND
PENTAFLUOROPROPIONALDEHYDE. A COMPREHENSIVE
BIBLIOGRAPHY ON THE GAMMA IRRADIATION OF POTENTIAL
MONOMERS WAS ALMOST COMPLETED, AND A PRELIMINARY
LISTING IS INCLUDED. IN ADDITION, A DIFFERENTIAL
THERMAL ANALYSIS ASSEMBLY WAS CONSTRUCTED FOR USE
DURING POLYMERIZATION BY GAMMA RADIATION OF
ACRYLONITRILE. THE RESULTS QUALITATIVELY INDICATE
THAT POLYMERIZATION OCCURS ONLY IN THE TEMPERATURE
VICINITY OF A PHASE TRANSITION. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-614 597

AVCO CORP WILMINGTON MASS RESEARCH AND ADVANCED
DEVELOPMENT DIV
A HIGH TEMPERATURE X-RAY DIFFRACTOMETER SPECIMEN
HOLDER. (U)

DESCRIPTIVE NOTE: FINAL REPT.,

APR 65 BIP DREIKORN, RUSSELL F. ;

REPT. NO. R400-65-198

CONTRACT: AF19 628 4001

PROJ: 4608

TASK: 460805

MONITOR: AFRL , 64-118

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•X-RAY DIFFRACTION ANALYSIS,
INSTRUMENTATION), (•HEATERS, DESIGN), HEAT-RESISTANT
MATERIALS, TEST EQUIPMENT, HEATING ELEMENTS,

ALIGNMENT, POWER SUPPLIES, BIBLIOGRAPHIES (U)

IDENTIFIERS: X-RAY DIFFRACTION EQUIPMENT (U)

A HIGH TEMPERATURE FURNACE FOR USE ON A HORIZONTAL
DIFFRACTOMETER WAS DESIGNED AND CONSTRUCTED. IT
CAN HEAT SAMPLES TO 2250C IN VACUUM OR 1790C IN
AIR FOR SUSTAINED PERIODS WITHOUT RESTRICTING THE
NORMAL OPERATION OF THE DIFFRACTOMETER. MECHANICAL
ADJUSTMENTS COMPENSATE FOR THE UNKNOWN THERMAL
EXPANSION OF THE INTERNAL PARTS OF THE FURNACE AND A
ROTATING MECHANISM REDUCES THE EFFECT OF GRAIN GROWTH
AND RECRYSTALLIZATION BY IMPROVING PARTICLE
STATISTICS IN THE X-RAY BEAM. BY SIMPLE
ADJUSTMENTS THE FURNACE CAN BE USED ON THE PICKER,
RIGAKU-DENKI, AND SIEMENS DIFFRACTOMETERS. A
RATHER EXTENSIVE 'STATE-OF-THE-ART' BIBLIOGRAPHY IS
INCLUDED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-618 041
PRINCETON UNIV N J
INORGANIC STRUCTURE AND SPECTRA. (U)
DESCRIPTIVE NOTE: FINAL TECHNICAL REPT. FOR I JAN 63-31
DEC 64,
DEC 64 5P MORROCKS, WILLIAM DEW. JR.;
CONTRACT: AF AFOSR242 63
PROJ: 9710
TASK: 971001
MONITOR: AFOSR , 65-0980

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COMPLEX COMPOUNDS, MOLECULAR
STRUCTURE), (*INORGANIC COMPOUNDS, MOLECULAR
STRUCTURE), (*MOLECULAR STRUCTURE, INORGANIC
COMPOUNDS), (*SPECTROSCOPY, INORGANIC COMPOUNDS),
TRANSITION METALS, INFRARED SPECTROSCOPY,
CHEMICAL BONDS, BIBLIOGRAPHIES (U)
IDENTIFIERS: SEQUESTERING AGENTS (U)

A LIST OF PUBLICATIONS GENERATED UNDER THE GRANT IS
GIVEN, AND A NUMBER OF UNPUBLISHED STUDIES ARE
BRIEFLY SUMMARIZED. THE WORK IS CONCERNED LARGELY
WITH TRANSITION METAL COMPLEXES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-618 157

NATIONAL RESEARCH COUNCIL OF CANADA OTTAWA (ONTARIO)
ENERGY TRANSFER IN POLYACENE SOLID SOLUTIONS IV: A
BIBLIOGRAPHY FOR 1963, (U)

65 37P LIPSETT, F. R. ;
REPT. NO. NRC-R064

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PUB. IN MONO. PROGRESS IN
DIELECTRICS, LONDON, 1965 P149-81 (COPIES AVAILABLE
ONLY TO DDC USERS).

DESCRIPTORS: (POLYCYCLIC COMPOUNDS,
LUMINESCENCE), (LUMINESCENCE, POLYCYCLIC
COMPOUNDS), SOLID SOLUTIONS, ENERGY,
SPECTROSCOPY, QUANTUM MECHANICS, ATOMIC ENERGY
LEVELS, PHOSPHORESCENCE, EXCITATION, TRANSPORT
PROPERTIES, MOLECULAR STRUCTURE,
PHOTOCONDUCTIVITY, SEMICONDUCTORS, CRYSTAL
GROWTH, BIBLIOGRAPHIES, CANADA (U)

IDENTIFIERS: ANTHRACENES, NAPHTHALENES (U)

THE ENERGY TRANSFER PROCESS IN SOLIDS HAS MOST
COMMONLY BEEN STUDIED IN SYSTEMS OF THE POLYACENES
AND RELATED MOLECULES, AND THE LITERATURE CONNECTED
WITH THE PROCESS FORMS THE SUBJECT MATTER OF THIS
BIBLIOGRAPHY. IN ORDER TO UNDERSTAND THE PROCESS
THOROUGHLY IT IS NECESSARY NOT ONLY TO BE AWARE OF
THE THEORIES AND EXPERIMENTAL RESULTS ON ENERGY
TRANSFER ITSELF, BUT ALSO TO HAVE SOME KNOWLEDGE OF
THE SPECTRA OF THE MOLECULES BY THEMSELVES, OF THE
CRYSTAL STRUCTURE OF THE COMPOUNDS, AND SO ON.
ALSO, SINCE THE SPECTRA OF THE POLYACENES ARE MUCH
THE SAME WHETHER THE MOLECULES ARE IN THE SOLID OR
GASEOUS PHASE OR IN LIQUID SOLUTIONS, A KNOWLEDGE OF
THE LATTER OFTEN REVEALS ANALOGIES WHICH ARE OF MUCH
HELP IN EXPLAINING THE TRANSFER PROCESS IN SOLIDS.
A LARGE PART OF THE BIBLIOGRAPHY IS THEREFORE
CONCERNED WITH SUBJECTS RELATED TO ENERGY TRANSFER,
RATHER THAN WITH THE TRANSFER PROCESS ITSELF. ON
THE OTHER HAND, NO ATTEMPT HAS BEEN MADE TO INCLUDE
ALL THE PAPERS DEALING, SAY, WITH NAPHTHALENE OR
ANTHRACENE, NOR TO INCLUDE PAPERS ON BENZENE.
(AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-614 532

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

METHODS OF HIGH-TEMPERATURE MEASUREMENT OF GASES:
COMPILATION OF ABSTRACTS. (U)

DESCRIPTIVE NOTE: REPT. NO. 3.

JUL 65 14P

REPT. NO. AID-P-65-53

NUMBER: TT , 65-62677

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPT. ON SURVEYS OF SOVIET-BLOC
SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (•GASES, HIGH-TEMPERATURE RESEARCH),
(•TEST METHODS, GASES), (•TEMPERATURE, GASES),
ABSTRACTING, BIBLIOGRAPHIES, SPECTRUM ANALYZERS,
FLAMES, GAS FLOW, PLASMA MEDIUM, RESISTANCE
THERMOMETERS, MEASUREMENT (U)

TRANSLATION OF RUSSIAN RESEARCH METHODS OF
HIGH-TEMPERATURE MEASUREMENT OF GASES: COMPILATION OF
ABSTRACTS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-623 251

AEROSPACE INFORMATION DIV LIBRARY OF CONGRESS WASHINGTON D

C

PURIFICATION OF BORON: ANNOTATED BIBLIOGRAPHY. (U)

DESCRIPTIVE NOTE: REPT. NO. 2 ON AID WORK ASSIGNMENT NO.

41, TASK 7.

MAY 64 6P

REPT. NO. AID-U-64-40

MONITOR: TT, 65-64462

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET OPEN SOURCE MATERIAL
AVAILABLE AT THE AEROSPACE INFORMATION DIV., LIBRARY
OF CONGRESS FOR THE YEAR 1957. REPT. ON SURVEYS OF
SOVIET-BLOC SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (•BORON, PURIFICATION;
BIBLIOGRAPHIES, REVIEWS, USSR

(U)

SEVEN ABSTRACTS ARE INCLUDED, EACH WITH AN ABSTRACT
OR A REFERENCE TO AN ENTRY IN CHEMICAL ABSTRACTS.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-629 519

7/3

AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C

CHEMISTRY OF RARE EARTH AND ACTINIDE DERIVATIVES
TETRAPYRROL PIGMENT DERIVATIVES OF RARE EARTH
ELEMENTS AND ACTINIDES: ANALYTICAL SURVEY. (U)
DESCRIPTIVE NOTE: REPT. NO. 1 ON ATD WORK ASSIGNMENT NO.
79, TASK 27,

JAN 66 41P NARTSISSOV, BORIS ;
REPT. NO. ATD-66-1,
MONITOR: TT , 66-60739

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SURVEYS OF SOVIET SCIENTIFIC AND
TECHNICAL LITERATURE.

DESCRIPTORS: (•ACTINIDE SERIES COMPOUNDS,
CHEMISTRY), (•RARE EARTH COMPOUNDS,
CHEMISTRY), (•PIGMENTS, RARE EARTH COMPOUNDS),
PHTHALOCYANINES, PYRROLES, METALORGANIC
COMPOUNDS, SYNTHESIS(CHEMISTRY), LUMINESCENCE,
SPECTROPHOTOMETERS, CHEMICAL ANALYSIS, REACTION
KINETICS, PHOTOCHEMISTRY, PHOTOSYNTHESIS, ION
EXCHANGE, ACTINIUM COMPOUNDS, USSR,
BIBLIOGRAPHIES (U)

THE ANALYTICAL SURVEY IS BASED ON SOVIET OPEN
SOURCES PUBLISHED 1959-1964. THE REPORT CONSISTS
OF A FOREWORD, AN ANALYTICAL SURVEY, AN
ANNOTATED BIBLIOGRAPHY, AND 4 APPENDIXES
(TOPIC CHART, AUTHOR INDEX, ASSOCIATION
INDEX, ADDITIONAL ENTRY). IN THE FOREWORD
THE ANALYST REMARKS THAT 'THE CHEMISTRY OF RARE EARTH
AND ACTINIDE DERIVATIVES OF TETRAPYRROL PIGMENTS IS
ONE OF THE LEAST EXPLORED PROBLEMS IN THE LITERATURE;
ONLY OCCASIONAL REFERENCES CAN BE FOUND.' A
DIFFERENT METHOD OF SEARCH IS THEREFORE USED WHICH IS
DESCRIBED IN THE FOREWORD. IT PROVIDED COVERAGE
OF SOVIET LITERATURE FROM THE END OF 1962 TO THE
END OF 1964. ATD REPORT U-64-81 (CHEMISTRY OF
RARE EARTHS AND ACTINIDES) COMPREHENSIVELY
COVERED THE LITERATURE ON THE SUBJECT UP TO THE END
OF 1962. ALSO, THE SETUP AND USE OF THE TOPIC
CHART IS DESCRIBED IN THE FOREWORD. IN THE
ANALYTICAL SURVEY THE ANALYST CITES THE
INDICATION THAT THERE IS 'A DEFINITE CONCENTRATION OF
EFFORTS ON THE PROBLEM OF METAL PHTHALOCYANINES OVER
ANY OTHER GROUPS OF THE TETRAPYRROL PIGMENTS.' HE
LISTS THE TRENDS WHICH COULD BE TRACED IN THE
SOVIET STUDY OF METAL PHTHALOCYANINES. (AUTHOR)

(U)

51
UNCLASSIFIED

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UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-629 764 774 773
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
LUMINESCENCE OF COMPLEX MOLECULES: ANALYTICAL
SURVEY. (U)
DESCRIPTIVE NOTE: REPT. NO. 1 ON ATD WORK ASSIGNMENT NO.
79, TASK 26.
JAN 66 104P KOURILU, JOHN J. ;
REPT. NO. ATD-66-9,
MONITOR: TT , 66-60749

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: CONSISTS OF TWO PARTS. PART I.
ANALYTICAL SURVEY. PART II. ANNOTATED BIBLIOGRAPHY.
REPT. ON SURVEYS OF SOVIET SCIENTIFIC AND
TECHNICAL LITERATURE.

DESCRIPTORS: (*LUMINESCENCE, COMPLEX COMPOUNDS),
(*COMPLEX COMPOUNDS, LUMINESCENCE), EXCITATION,
ORGANIC CHEMISTRY, PHOTOLUMINESCENCE,
PHOTOCHEMISTRY, SPECTROSCOPY,
CHEMILUMINESCENCE, BIBLIOGRAPHIES, USSR (U)

THIS ANALYTICAL SURVEY IS BASED ON SOVIET-
SATELLITE OPEN SOURCES PUBLISHED IN 1963. THE
REPORT COVERS THE LAST QUARTER OF 1963 AND IS TO BE
CONSIDERED A CONTINUATION OF THE THREE ATD REPORTS
(TWO ANNOTATED BIBLIOGRAPHIES AND ONE
BIBLIOGRAPHY) ON THE SAME SUBJECT WHICH WERE ISSUED
IN 1963-1964 AND COVERED THE PERIOD FROM JULY 1962
TO SEPTEMBER 1963. IN ADDITION, SOME PERTINENT
MATERIALS PUBLISHED FROM APRIL TO SEPTEMBER 1963
AND NOT COVERED BY THE PREVIOUS ATD REPORT ARE
INCLUDED IN THE PRESENT REPORT. MATERIALS SELECTED
FOR THIS REPORT WERE SUBDIVIDED INTO SIX SECTIONS,
ACCORDING TO THE TOPICS REQUESTED, AND WERE ARRANGED
ACCORDING TO THE PREVALENT TRENDS FOUND IN THESE
MATERIALS. BASICALLY, THE REPORT CONSISTS OF TWO
PARTS. PART ONE CONTAINS A BRIEF ANALYTICAL
SURVEY OF DATA BY THE FOREMENTIONED SECTION.
SECTION TITLES ARE AS FOLLOWS: (1) GENERAL
STUDIES (BOOKS, REVIEWS, CONFERENCES,
BIBLIOGRAPHIES); (2) PHYSICAL STATE OF MATTER;
(3) LIFETIME OF EXCITED STATES AND QUANTUM YIELD
OF LUMINESCENCE; (4) ELECTRONIC SPECTRA OF
LUMINESCENT COMPLEX MOLECULES; (5) INTERNAL
CONVERSION AND TRANSFER OF ENERGY; (6)
APPLICAT. S OF LUMINESCENCE. PART TWO IS AN
ANNOTATED BIBLIOGRAPHY ON WHICH THE SURVEY IS BASED
AND WHICH IS ARRANGED IN THE SAME SEQUENCE AS THE
SURVEY. THE SELECTIVE ANNOTATIONS CLOSELY FOLLOW (U)

52

UNCLASSIFIED

000350

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-620 172 7/4 20/8 20/10
NEW YORK UNIV N Y DEPT OF PHYSICS
CALCULATIONS IN ATOMIC SCATTERING PROBLEMS AND ATOMIC
STRUCTURE. (U)
DESCRIPTIVE NOTE: FINAL REPT. 1 MAY 60-1 FEB 66.
MAR 66 10P BOROWITZ, SIDNEY ;
CONTRACT: NONR-285(49)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*ATOMIC STRUCTURE, MATHEMATICAL
MODELS), (*NUCLEAR SCATTERING, ATOMS),
(*ELECTRONS, NUCLEAR SCATTERING), (*POSITRONS,
NUCLEAR SCATTERING), ATOMIC ORBITALS,
APPROXIMATION(MATHEMATICS), POTENTIAL THEORY,
HYDROGEN, BIBLIOGRAPHIES (U)
IDENTIFIERS: THOMAS-FERMI MODEL (U)

RESULTS OF STUDIES IN THE FOLLOWING AREAS ARE
BRIEFLY SUMMARIZED: (1) DERIVATION OF THE
THOMAS-FERMI ATOMIC MODEL FROM THE MAIN BODY OF
THE SCHRODINGER EQUATION; (2) LOW ENERGY
SCATTERING OF ELECTRONS AND POSITRONS BY ATOMS;
(3) HIGH ENERGY SCATTERING OF ELECTRONS BY ATOMS.
A BIBLIOGRAPHY OF THE 46 PAPERS RESULTING FROM THE
STUDIES IS INCLUDED. (U)

UNCLASSIFIED

RDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000790

AD-735 221 7/3
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
CHEMISTRY OF ORGANOMETALLIC COMPOUNDS. PART A.
ORGANOSILICON AND ORGANOGermanium CHEMISTRY:
ANNOTATED BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: REPT. NO. 3 ON ATD WORK ASSIGNMENT NO.
79, TASK 24.
APR 66 111P WOLSKI, EDWARD ;
REPT. NO. ATD-66-47,
MONITOR: TT- 66-61676

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET-SATELLITE OPEN
SOURCES PUB. 1964. REPT. ON SURVEYS OF COMMUNIST
WORLD SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (*METALORGANIC COMPOUNDS, REVIEWS),
(*SILICON COMPOUNDS, REVIEWS), (*GERMANIUM
COMPOUNDS, REVIEWS), SILANES, SILOXANES,
CHEMISTRY, ABSTRACTS, BIBLIOGRAPHIES, USSR,
POLAND, CZECHOSLOVAKIA (U)
IDENTIFIERS: GERMANES (U)

THIS ANNOTATED BIBLIOGRAPHY WAS COMPILED FROM
SOVIET-SATELLITE OPEN SOURCES PUBLISHED IN 1964.
IT DEALS WITH ORGANOSILICON AND ORGANOGermanium
CHEMISTRY, EXCLUDING ENTRIES FOR SILICONES AND/OR
GERMANIUM IN POLYMER MOLECULES. ONLY ENTRIES
CONCERNING EXPERIMENTAL CHEMISTRY WERE SELECTED FOR
INCLUSION; GENERAL REVIEWS WERE NOT CONSIDERED.
THE REPORT CONSISTS OF A COMPILATION OF ABSTRACTS,
ANNOTATIONS, AND BOOK EXPLOITATIONS AND IS DIVIDED
INTO TWO CHAPTERS: CHAPTER I, ORGANOSILICON
COMPOUNDS, COMPRISING 107 ENTRIES; AND CHAPTER II,
ORGANOGermanium COMPOUNDS, WITH 22 ENTRIES.
AVAILABLE FORMULAS AND DATA WERE INCLUDED IN THE
ANNOTATIONS. ALL ENTRIES ARE ARRANGED
ALPHABETICALLY BY AUTHOR, AND EACH CHAPTER IS
PROVIDED WITH AUTHOR AND ASSOCIATION INDEXES.
APPENDED TO THE REPORT IS A LIST OF JOURNALS USED
IN THE REPORT. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-635 898 7/3 6/1 6/4
WOODS HOLE OCEANOGRAPHIC INSTITUTION MASS
OCCURRENCE OF NORMAL PARAFFIN HYDROCARBONS IN NATURE.
TABLES AND BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.
JUL 66 59P CLARK JR, ROBERT C. ;
REPT. NO. WHOI-REF-66-34,
CONTRACT: NONR-2196(00), NSF-GP-2250
PROJ: NR-083-704,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•HYDROCARBONS, DISTRIBUTION),
(•ALKANES, DISTRIBUTION), ALIPHATIC COMPOUNDS,
PLANTS(BOTANY), ANIMALS, AQUATIC ANIMALS,
PLANKTON, GEOLOGY, ATMOSPHERE, PETROLEUM,
TABLES, BIBLIOGRAPHYS (U)

TABLES ARE GIVEN WHICH INDICATE THE OCCURANCE AND,
WHERE AVAILAPLE, THE CONTENT OF N-ALKANES IN LAND
AND MARINE PLANTS, LAND AND MARINE ANIMALS, THE
ATMOSPHERE, AND (TO A LESSER EXTENT) THE EARTH'S
CRUST. A SUPPORTING BIBLIOGRAPHY OF 444 ITEMS IS
INCLUDED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-639 200 7/1 21/9
AIR REDUCTION SALES CO MURRAY HILL N J CHEMICAL RESEARCH
DIV
OZONE PREPARATION AND STABILITY IN HIGH
CONCENTRATIONS. VOLUME 2. BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: FINAL REPT.
50 234P TAYLOR, ALFRED H. ;
CONTRACT: NCBS-46854,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (OZONE, BIBLIOGRAPHIES), CHEMICAL
ANALYSIS, PHYSICAL PROPERTIES, CHEMICAL REACTIONS,
PRODUCTION, TOXICITY, ABSTRACTS (U)

THE BIBLIOGRAPHY COVERS THE LITERATURE CONCERNING
THE ANALYSIS, PHYSICAL PROPERTIES, PRODUCTION,
REACTIONS, AND TOXICITY OF OZONE WHICH APPEARED
THROUGH THE MIDDLE OF 1949. AN ABSTRACT IS
INCLUDED FOR EACH ENTRY. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-645 876 773 1179
REDSTONE SCIENTIFIC INFORMATION CENTER REDSTONE ARSENAL
ALA
FERROCENE AND FERROCENE DERIVATIVES. (U)
DESCRIPTIVE NOTE: REPT. FOR 1962-66,
SEP 66 425P MCNUTT, WILLIAM P. ;
PITTMAN, CHARLES U. ;
REPT. NO. RSIC-591

UNCLASSIFIED REPORT

DESCRIPTORS: (FERROCENES, BIBLIOGRAPHIES),
ABSTRACTS, METALORGANIC COMPOUNDS, MOLECULAR
STRUCTURE, CHEMICAL REACTIONS, CHEMICAL BONDS,
SYNTHESIS (CHEMISTRY), POLYMERS, CHEMICAL
ANALYSIS, MANUFACTURING METHODS (U)

THIS IS AN ANNOTATED BIBLIOGRAPHY COVERING
FERROCENE AND ITS DERIVATIVES FROM 1962 TO AUGUST
1966. SEVERAL REVIEW ARTICLES ARE LISTED WHICH
DESCRIBE THE UNIQUE CHARACTERISTICS OF FERROCENE
SINCE ITS DISCOVERY IN 1951, ITS REACTIONS, AND SOME
OF ITS USES. APPROXIMATELY 550 CITATIONS ARE
LISTED. (AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-648 126 7/5 18/2
NAVAL RADIOLOGICAL DEFENSE LAB SAN FRANCISCO CALIF
ION-EXCHANGE METHODS FOR CONCENTRATION OF TRACE
ELEMENTS FROM SEAWATER. AN ANNOTATED BIBLIOGRAPHY OF
METHODS, APPLICABLE ALSO TO ANALYSIS AND TO RELATED
SOLUTIONS. (U)
NOV 66 45P PASTUAL, J. ;
REPT. NO. USNRDL-TP-67-16
PROJ: ZF-011-01-01

UNCLASSIFIED REPORT

DESCRIPTORS: (SEA WATER, TRACER STUDIES),
(TRACER STUDIES, CHEMICAL ELEMENTS),
BIBLIOGRAPHIES, ION EXCHANGE, SOLUTIONS,
ADSORPTION, SEPARATION, RECOVERY, RADIOACTIVE
FALLOUT (U)

THE CONCENTRATION OF TRACE ELEMENTS FROM SEAWATER
AND SIMILAR SOLUTIONS ARE DESCRIBED FOR A NUMBER OF
TRACE ELEMENTS. BOTH ORGANIC AND INORGANIC
EXCHANGERS ARE USED TO CONCENTRATE TRACE ELEMENTS
FROM SOLUTIONS. THE SUMMARIES OF THE METHODS GIVEN
HERE ARE DETAILED OR SCANTY ACCORDINGLY AS THE
ORIGINAL PAPERS WERE OR WERE NOT AVAILABLE.
DESPITE THE BREVITY OF THE PRESENTATION OF SOME OF
THE METHODS, MOST OF SUCH METHODS ARE IMMEDIATELY
USABLE. SOME CONCENTRATION METHODS REQUIRE NO PH
ADJUSTMENT OF SOLUTIONS PRIOR TO ADSORPTION AND CAN
THEREFORE BE USED IN SITU. OTHERS REQUIRE SOME
SOLUTION TREATMENT PRIOR TO ADSORPTION AND CAN
THEREFORE BE APPLIED ONLY IN THE LABORATORY. NEW
ORGANIC AND INORGANIC EXCHANGERS ARE BEING CONSTANTLY
DEVELOPED. A GOOD AGENT FOR CONCENTRATING CS
FROM SEAWATER IS THE INORGANIC EXCHANGER AMMONIUM
MOLYBDOPHOSPHATE (AMP) WHICH REQUIRES LITTLE OR NO
SOLUTION TREATMENT PRIOR TO ADSORPTION. (U)

EARTH SCIENCES AND OCEANOGRAPHY

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-402 517

MICHIGAN UNIV ANN ARBOR INST OF SCIENCE AND
TECHNOLOGY

A BIBLIOGRAPHY OF SEISMOLOGY FOR THE VELA UNIFORM
PROGRAM. ADDENDUM NO. 3.

(U)

APR 63 210P

REPT. NO. 4410 1084

UNCLASSIFIED REPORT

DESCRIPTORS: *SEISMIC WAVES, *BIBLIOGRAPHIES,
UNDERGROUND EXPLOSIONS, ABSTRACTS.

(U)

IDENTIFIERS: VELA-UNIFORM.

(U)

CONTENTS: RESEARCH IN SEISMOLOGY SEISMIC
SOURCE MECHANISMS EARTHQUAKES
EXPLOSIONS SEISMIC NOISE OTHER
ARTIFICIAL DEVICES (OSCILLATORS, WEIGHT
DROPS, ETC.) SEISMIC WAVE PROPAGATION
THEORETICAL OBSERVATIONAL MODELS
SEISMIC PROPAGATION PATHS U. S. CRUSTAL
STRUCTURE FOREIGN CRUSTAL STRUCTURE
MANTLE AND CORE GEOPHYSICAL CONSTANTS
(SEISMIC VELOCITY, ROCK DENSITY, ETC.)
SEISMIC SIGNAL DETECTION SURFACE
ARRAY DEEPWELL UNDERWATER SPECIAL
PURPOSE SEISMIC DATA PROCESSING
ANALYSIS GENERAL STUDIES (INCLUDES
INSTRUMENTATION)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-404 513

QUARTERMASTER RESEARCH AND ENGINEERING COMMAND NATICK
MASS

PUBLICATIONS IN THE EARTH SCIENCES.

(U)

DEC 62 56P

PROJ: 7X 83 01 006

MONITOR: QREC

TP ES 1

UNCLASSIFIED REPORT

DESCRIPTORS: •GEOGRAPHY, •BIBLIOGRAPHIES,
CLIMATOLOGY, TERRAIN, GEOLOGY, DESERTS,
TROPICAL REGIONS, MOUNTAINS, MICRO
METEOROLOGY, PERMAFROST, CLOTHING, LOGISTICS,
ECOLOGY, POLAR REGIONS, REPORTS,
DOCUMENTATION.

(U)

THIS REPORT LISTS ALL THE EARTH SCIENCE REPORTS
THAT HAVE BEEN PUBLISHED SINCE THE START OF THE EARTH
SCIENCES PROGRAM IN THE QUARTERMASTER CORPS IN
1942. THE REPORTS COVER GEOGRAPHY AND ITS
SUBFIELDS, INCLUDING CLIMATOLOGY, GEOMORPHOLOGY, AND
BIOGEOGRAPHY OF PLANTS AND ANIMALS, INCLUDING MAN.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-404 75)

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA
OCEANOGRAPHY. A REPORT BIBLIOGRAPHY.

(U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR 1953-MAR 63,
MAY 63 IV HOMPSON, COMP. BY ESTHER E.;

UNCLASSIFIED REPORT

DESCRIPTORS: •OCEANOLOGY, •BIBLIOGRAPHIES,
MARINE BIOLOGY, AQUATIC ANIMALS, FISHES,
MARINE BORERS, ALGAE, PLANKTON, SEA WATER,
CHEMISTRY, DESALINATION, SALINITY, MECHANICAL
PROPERTIES, STRUCTURAL PROPERTIES, ICE,
ECONOMICS, HYDROGRAPHIC SURVEYING, MARINE
GEOPHYSICS, MARINE GEOLOGY, MARINE METEOROLOGY,
BEACHES, REEFS, OCEAN BOTTOM, OCEAN CURRENTS,
OCEAN WAVES, TIDES, MEASUREMENT, TEMPERATURE,
OCEANOGRAPHIC EQUIPMENT, INSTRUMENTATION,
SCIENTIFIC RESEARCH, SYMPOSIA.

(U)

THIS BIBLIOGRAPHY ON OCEANOGRAPHY INCLUDES ITS
BIOLOGICAL, CHEMICAL, ECONOMICAL, PHYSICAL ASPECTS AS
WELL AS MARINE GEOLOGY AND APPLIED OCEANOGRAPHY.
CITATIONS ARE INCLUDED FOR ALL UNCLASSIFIED
REPORTS, WITHOUT RELEASE LIMITATIONS, THAT WERE
ACQUIRED BY DDC FROM 1953 TO MARCH 1963.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-414 398

WOODS HOLE OCEANOGRAPHIC INSTITUTION MASS
BIBLIOGRAPHY OF REPORTS, 1962.

(U)

DEC 62 5P

REPT. NO. 62-43

UNCLASSIFIED REPORT

DESCRIPTORS: (OCEANOLOGY, BIBLIOGRAPHIES),

UNDERWATER SOUND.

(U)

IDENTIFIERS: 1962.

(U)

BIBLIOGRAPHY OF REPORTS, 1962.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-422 423

MICHIGAN UNIV ANN ARBOR INST OF SCIENCE AND
TECHNOLOGY

A BIBLIOGRAPHY OF SEISMOLOGY FOR THE VELA UNIFORM
PROGRAM. (U)

DESCRIPTIVE NOTE: ADDENDUM NO. 5.

OCT 63 126P

REPT. NO. 4410 ICB

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, SEISMIC WAVES),
(*SEISMOGRAPHS, BIBLIOGRAPHIES), ABSTRACTS,
EARTHQUAKES, LITHOSPHERE, BLAST, UNDERGROUND

EXPLOSIONS, DETECTION, EARTH (U)

IDENTIFIERS: VELA UNIFORM, 1963, TELLURIC
CURRENTS (U)

THIS FIFTH ADDENDUM TO A BIBLIOGRAPHY OF
SEISMOLOGY FOR THE VELA UNIFORM PROGRAM LISTS
AUTHORS AND TITLES AND GIVES ABSTRACTS FOR SEVERAL
HUNDRED PUBLICATIONS ON SEISMOLOGY AND THE DETECTION
OF UNDERGROUND EXPLOSIONS. THE LIST OF AUTHORS AND
TITLES IS ARRANGED BY AREAS OF THE VELA UNIFORM
PROGRAM OF THE ADVANCED RESEARCH PROJECTS
AGENCY. THE AUTHOR'S NAMES ARE CROSS-REFERENCED
AND VARIANT SPELLINGS ARE INDICATED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-427 316

IIT RESEARCH INST CHICAGO ILL
RESEARCH AND DEVELOPMENT ON ADVANCED GRAPHITE
MATERIALS. VOLUME XI: SURVEY AND ANALYTICAL
REPRESENTATION OF THE MEASUREMENTS OF THE SPECIFIC
HEAT OF GRAPHITE, (U)

NOV 63 42P SPENCE, G. B. ;

CONTRACT: AF33 616 6915

PROJ: 7350 ,7381

TASK: 735002 ,738102

MONITOR: WADD TR61 74, VOL. 41

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT ON REFRACTORY INORGANIC
NON-METALLIC MATERIALS.

DESCRIPTORS: (*GRAPHITE, SPECIFIC HEAT), (*REVIEWS,
SPECIFIC HEAT), HIGH-TEMPERATURE RESEARCH, CRYSTAL
LATTICES, STATISTICAL ANALYSIS, CRYOGENICS,
BIBLIOGRAPHIES, DISTRIBUTION, PYROLYTIC GRAPHITE,
THERMAL EXPANSION (U)

IDENTIFIERS: LATTICE SPECIFIC HEAT, 1963 (U)

A LITERATURE SURVEY WAS MADE OF THE EXPERIMENTAL
VALUES OF THE SPECIFIC HEAT OF GRAPHITE. MOST OF
THE MEASUREMENTS FROM 20 K TO 3000 K WERE
REANALYZED AND A NEW AVERAGE CURVE IS GIVEN FOR EACH
EXPERIMENTAL RUN. SOME OF THE NEW CURVES ARE
SIGNIFICANTLY DIFFERENT FROM THE ORIGINAL CURVES.
ESTIMATES ARE GIVEN OF THE CP-CV TERM, THE
ELECTRONIC SPECIFIC HEAT, AND THE SPECIFIC HEAT OF
THE LATTICE VIBRATIONS. THE LATTICE SPECIFIC HEAT
WAS APPROXIMATED BY VARIOUS COMBINATIONS OF
EINSTEIN AND ONE-AND TWO-DIMENSIONAL DEBYE
FUNCTIONS. THE CHARACTERISTIC TEMPERATURES WERE
SELECTED BY A LEAST-SQUARES CURVE-FITTING PROCEDURE.
(AUTHOR) (U)

UNCLASSIFIED

DIC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000270

AD-429 964
NOTRE DAME UNIV IND
PRELIMINARY DESIGN OF DYNAMIC-STATIC DIRECT SHEAR
APPARATUS FOR SOILS AND ANNOTATED BIBLIOGRAPHIES OF
SOIL DYNAMICS AND CRATERING, (U)
63 207P WOODS, RICHARD D. ;
PROJ: 1080
TASK: 108008
MONITOR: RTD TDR63 3050

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: MASTER'S THESIS.

DESCRIPTORS: (*SOILS, TEST METHODS), (*SOIL
MECHANICS, TEST METHODS), (*BIBLIOGRAPHIES, SOIL
MECHANICS), (*CRATERING, BIBLIOGRAPHIES), DESIGN,
DYNAMICS, SHEAR STRESSES, NUCLEAR EXPLOSIONS,
MECHANICAL WAVES, PROPAGATION, STRAIN (MECHANICS) (U)
IDENTIFIERS: 1963 (U)

THIS REPORT CONTAINS A CRITICAL REVIEW OF THE
LITERATURE ON THE DYNAMIC TESTING OF SOILS. THE
REVIEW WAS CONDUCTED PRIOR TO THE DESIGN OF AN
APPARATUS FOR DYNAMIC DIRECT SHEAR TESTS. THE
SPECIFICATIONS FOR THE APPARATUS GENERATED FROM THIS
REVIEW AND THE PRELIMINARY DESIGN OF THE APPARATUS
ARE PRESENTED. INCLUDED ARE APPENDIXES CONTAINING
ANNOTATED BIBLIOGRAPHIES (421 ENTRIES) ON SOIL
DYNAMICS, STRESS-WAVE PROPAGATION, AND NUCLEAR AND
HIGH-EXPLOSIVE CRATERING. (AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-430 543

WOODS HOLE OCEANOGRAPHIC INSTITUTION MASS
BIBLIOGRAPHY OF REPORTS 1963.

JAN 64 11P

(U)

REPT. NO. 63 47

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (OCEANOLOGY, BIBLIOGRAPHIES), OCEAN
CURRENTS, FISHES, MARINE BIOLOGY, MARINE GEOPHYSICS,
UNDERWATER SOUND

(U)

IDENTIFIERS: 1964

(U)

BIBLIOGRAPHY OF REPORTS 1963.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-431 604

FRANKLIN INST PHILADELPHIA PA

SOIL THERMAL PROPERTIES: AN ANNOTATED
BIBLIOGRAPHY.

(U)

OCT 62 1959 PETERS, ALEC ; GENTIEU, NORMAN

CONTRACT: OGD 0362 59

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTES:

DESCRIPTORS: (SOILS, BIBLIOGRAPHIES), SOIL
MECHANICS, MOISTURE, MOISTUREPROOFING, UNDERGROUND
STRUCTURES, SHELTERS, THERMAL CONDUCTIVITY, SURFACE
TEMPERATURES, HEAT TRANSFER, THERMAL DIFFUSION,
DESIGN

(U)

IDENTIFIERS: 1962

(U)

CONTENTS: MEASUREMENT TECHNIQUES, THERMAL
PROPERTIES, MOISTURE, AND DESIGN OF UNDERGROUND
STRUCTURES.

(U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-431 645

NAVAL OCEANOGRAPHIC OFFICE WASHINGTON D C
SOURCES OF GRAVITY DATA AT THE U. S. NAVAL
OCEANOGRAPHIC OFFICE, (U)

63 53P LECTKA, JANET E. ;
LATTIMORE, ROBERT K. ;
MONITOR: NOO U7438A

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ALSO AVAILABLE FROM NAVAL
OCEANOGRAPHIC OFFICE, WASHINGTON, D. C. 20390. PRICE
\$.50.

DESCRIPTORS. (BIBLIOGRAPHIES, GRAVITY); (GRAVITY,
BIBLIOGRAPHIES), MEASUREMENT, ABSTRACTS, GEODESICS (U)
IDENTIFIERS: 1963 (U)

THIS REPORT COMPRISES A BIBLIOGRAPHY OF PUBLISHED
AND UNPUBLISHED SOURCE MATERIAL KEYED TO A NUMERICAL
CODE EMPLOYED ON MACHINE CARDS TO THE GRAVITY DATA
STORAGE AND RETRIEVAL SYSTEM OF THE U. S. NAVAL
OCEANOGRAPHIC OFFICE, MARINE SURVEYS
DIVISION. EACH CITATION IS ACCOMPANIED BY A
BRIEF TOPICAL ABSTRACT. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-432 807

COLD REGIONS RESEARCH AND ENGINEERING LAB MANOVER N H
BIBLIOGRAPHY ON SNOW, ICE AND PERMAFROST WITH
ABSTRACTS. VOLUME XVII. (U)
274P

MONITOR: CRREL 12

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, PERMAFROST),
(*PERMAFROST, BIBLIOGRAPHIES), (*SNOW,
BIBLIOGRAPHIES), (*ICE, BIBLIOGRAPHIES), (*ABSTRACTS,
PERMAFROST), POLAR REGIONS, ABLATION, AVALANCHES,
CRYSTALLIZATION, COLD WEATHER TESTS, MECHANICS, FROST
BITE, CONSTRUCTION, HEAT (U)
IDENTIFIERS: 1963, WHITE OUT FORECASTING, ARCTIC
OCEAN (U)

THE BIBLIOGRAPHY ON SNOW, ICE AND
PERMAFROST WITH ABSTRACTS (CRREL REPORT 12)
WAS INITIATED IN 1952 AND IS A CONTINUING PROJECT OF
THE SCIENCE AND TECHNOLOGY DIVISION, COLD
REGIONS PROJECT SECTION OF THE LIBRARY OF
CONGRESS, PREPARED FOR THE U. S. ARMY COLD
REGIONS RESEARCH AND ENGINEERING LABORATORY
(USA CRREL) OF THE CORPS OF ENGINEERS.
VOLUMES 1-15 WERE ISSUED AS SIPRE REPORT 12.
VOLUME 16 WAS THE FIRST ISSUED UNDER THE NEW TITLE
CRREL REPORT 12. THE PRESENT VOLUME 17
INCLUDES ABSTRACTS SIP 20001-21000. PRIMARILY,
THE BIBLIOGRAPHY PROVIDES USA CRREL WITH CURRENT
AND COMPREHENSIVE COVERAGE ON SCIENTIFIC INFORMATION,
BOTH BASIC AND APPLIED, ABOUT LIVING AND OPERATING IN
THE POLAR AND SUBPOLAR REGIONS. THE SUBJECTS
COVERED VARY FROM ABLATION TO WHITEOUT AND INCLUDE
SUCH DIVERSE TOPICS AS AVALANCHE FORECASTING, ICE
CRYSTALLOGRAPHY, SNOW MECHANICS, FROST EFFECTS,
TUNNELING AND EXCAVATIONS, DEVELOPMENT OF TRAFFICABLE
SURFACES, PERMAFROST CONSTRUCTION, AND VARIOUS PHASES
OF HEAT AND MASS BUDGETS. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-441 621

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
THE GEOMAGNETIC FIELD: AN ANNOTATED
BIBLIOGRAPHY,

(U)

AUG 63 57P GRAZIANO, EUGENE E. ;
MCCORMICK, HELEN P. ;
REPT. NO. SB63 63 ,3 5663 2
CONTRACT: AFO4 647 787

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•TERRESTRIAL MAGNETISM,
BIBLIOGRAPHIES), ANOMALIES, AURORAE, COSMIC
RAYS, ELECTRONS, NUCLEAR EXPLOSIONS, HIGH
ALTITUDE, MAGNETIC FIELDS, IONOSPHERE, MAGNETIC
STORMS, PLASMA PHYSICS, SOLAR RADIATION, X-
RAYS

(U)

THE BIBLIOGRAPHY CONSISTS OF 183 SELECTED
REFERENCES TO RECENT LITERATURE ON ALL ASPECTS OF THE
GEOMAGNETIC FIELD, AND TO PLANETARY AND
INTERPLANETARY FIELDS. ACTUAL MEASUREMENTS OF
MAGNETOSPHERIC PHENOMENA WERE OF PARTICULAR INTEREST.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-448 594

BUREAU OF RECLAMATION DENVER COLO
SELECTED BIBLIOGRAPHY OF SOIL MECHANICS AND
FOUNDATION ENGINEERING,

(U)

PP STENGER, FERDINAND ;
REPT. NO. BIBLIOGRAPHY 241

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ALSO AVAILABLE FROM BUREAU OF
RECLAMATION, DENVER, COLO. AT \$1.00.

DESCRIPTORS: (*SOIL MECHANICS, BIBLIOGRAPHIES),
(*FOUNDATIONS (STRUCTURES), BIBLIOGRAPHIES), DAMS,
ROCK (GEOLOGY), STRUCTURES, UNDERGROUND STRUCTURES,
SOILS, STRUCTURAL ENGINEERING, SUPPORTS,
SEDIMENTATION, STRUCTURAL GEOLOGY, BRIDGES

(U)

IDENTIFIERS: 1964

(U)

THIS BIBLIOGRAPHY LISTS BOOKS AND PAPERS ON THE
SUBJECTS OF SOIL MECHANICS AND FOUNDATION
ENGINEERING. REQUESTS ARE OCCASIONALLY RECEIVED
FROM OUTSIDE SOURCES TO IDENTIFY PAPERS ON THESE
SUBJECTS. MANY OF THESE BOOKS HAVE 4 OR 5 INTERNAL
BIBLIOGRAPHIES AND THE COMPREHENSIVE BIBLIOGRAPHY BY
PETERMANN LISTS ALMOST 19,000 ITEMS THROUGH PART
III, 1961. PROBABLY FOUR OR FIVE THOUSAND
ADDITIONAL REFERENCES WILL HAVE FOUND THEIR WAY INTO
THE TECHNICAL LITERATURE BY SEPTEMBER 1965, WHEN
THE SIXTH INTERNATIONAL SOILS MECHANICS
CONFERENCE WILL BE HELD IN MONTREAL, CANADA.
(AUTHOR)

(U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000790

AD-658 300

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

ATLAS OF EARTHQUAKES IN THE USSR. (U)

MAY 64 284P

REPT. NO. AID-U-64-50

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. FROM AKADEMIYA NAUK SSSR,
SOVET PO SEYSMOLOGII. ATLAS ZEMLETRYASENIY V SSSR;
FEZUL' TATY NARLYUDENIY SETI SEYSMICHESKIKH
STANSTSIY SSSR, 1911-1957 GG., 1962.

DESCRIPTORS: (+EARTHQUAKES, USSR), (+USSR,
EARTHQUAKES), MAPS, SEISMOLOGICAL STATIONS,
SEISMOGRAPHS, CATALOGS, BIBLIOGRAPHIES, GEOGRAPHY (U)
IDENTIFIERS: ATLASES, EPICENTERS (U)

THE ATLAS OF EARTHQUAKES IN THE USSR HAS BEEN
TRANSLATED FROM THE RUSSIAN. THE TEXT,
BIBLIOGRAPHY, AND APPENDIXES, CONTAINING INDEXES AND
KEYS TO THE MAPS AND CHARTS, ENABLE THE USER WHO HAS
NO KNOWLEDGE OF RUSSIAN TO FOLLOW THE MAPS AND
UNDERSTAND THE CHARTS. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-469 253

MICHIGAN UNIV ANN ARBOR INST OF SCIENCE AND
TECHNOLOGY
A BIBLIOGRAPHY OF SEISMOLOGY FOR THE VELA UNIFORM
PROGRAM. (U)

DESCRIPTIVE NOTE: SECOND EDITION,

JUL 65 848P LORMAND, ROBERT ; FRIES
, DONALD ; KENNEDY, GEORGE F. ;
NAFT. NO. 4410-81-R
CONTRACT: S078

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SEISMOLOGY, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, SEISMOLOGY), NUCLEAR
EXPLOSIONS, EARTHQUAKES, SEISMIC WAVES,
DETECTION, SEISMOGRAPHS, SHOCK WAVES, BLAST,
MICROSEISMS, PROPAGATION, ELECTROMAGNETIC
WAVES (U)

IDENTIFIERS: VELA-UNIFORM (U)

THE SECOND EDITION OF A BIBLIOGRAPHY OF
SEISMOLOGY FOR THE VELA UNIFORM PROGRAM LISTS
AUTHORS AND TITLES AND GIVES ABSTRACTS FOR
APPROXIMATELY 2000 ARTICLES AND REPORTS ON SEISMOLOGY
AND THE DETECTION OF UNDERGROUND EXPLOSIONS. THE
LIST OF AUTHORS AND TITLES IS ARRANGED BY AREAS OF
THE VELA UNIFORM PROGRAM OF THE ADVANCED
RESEARCH PROJECTS AGENCY. THIS BIBLIOGRAPHY
IS CROSS-REFERENCED, AND A LIST OF STANDARD
ABBREVIATIONS FOR JOURNAL TITLES IS INCLUDED.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-601 303

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

INTRODUCTORY BIBLIOGRAPHY ON COLLECTION,
IDENTIFICATION, AND STORAGE OF ANAEROBIC
BACTERIA. (U)

MAR 62 FP LEE, RICHARD W. H. ;
REPT. NO. S62 010 , PDL43215

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, BACTERIA), (*BACTERIA,
BIBLIOGRAPHIES), *DEGRADATION, MICROBIOLOGY, MARINE
BIOLOGY, IDENTIFICATION, STORAGE, COLLECTING METHODS,
MATERIALS (U)

IDENTIFIERS: ANAEROBIC BACTERIA (U)

THIS FIFTY-FOUR ENTRY BIBLIOGRAPHY CONTAINS FOREIGN
AND DOMESTIC REFERENCES ON IDENTIFICATION, SEPARATION
AND CULTURE TECHNIQUES IN REGARD TO ANAEROBIC
BACTERIA. THESE REPORTS ARE GENERALLY RELATED TO
MATERIALS DETERIORATION, MARINE BIOLOGY, PETROLEUM
AND CORROSION OF METALS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-601 305

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

BIBLIOGRAPHY ON MARINE FUNGI AND ALGAE. THEIR
FOULING PROBLEMS AND CONTROL. (U)

JUN 62 37P LEE, RICHARD W. H. ;
REPT. NO. 562 028 ,PDL44131

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTES:

DESCRIPTORS: (*BIBLIOGRAPHIES, FOULING), (*FOULING,
BIBLIOGRAPHIES), (*FUNGI, *ALGAE), ANTIFOULING, MARINE
BIOLOGY, ANTIFOULING COATINGS, CORROSION INHIBITION,
FUNGUS DETERIORATION (U)

THIS BIBLIOGRAPHY CONTAINS OVER 400 ENTRIES ON
FOULING FUNGUS AND ALGAE AND ANTIFOULING MEASURES.
THE REFERENCES ARE FROM FOREIGN AND DOMESTIC
SOURCES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-601 311

PREVENTION OF DETERIORATION CENTER NAS-NKC WASHINGTON D
C
FOULING BY MARINE ANIMALS AND ANTIFOULING
METHODS. (U)

OCT 62 12P LEE, RICHARD W. H. ;
REPT. NO. 562 049 , PDL49705

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUPPLEMENTS PDC SEARCH NO. 6U-013,
BIBLIOGRAPHY ON MARINE BIO-DETERIORATION.

DESCRIPTORS: (*MARINE BIOLOGY),
(*BIBLIOGRAPHIES, FOULING), (*FOULING,
BIBLIOGRAPHIES), AQUATIC ANIMALS, ANTIFOULING,
DEGRADATION, INHIBITION, PESTICIDES,
ANTIFOULING COATINGS, MARINE BORERS (U)

THIS BIBLIOGRAPHY OF 95 RESEARCH REPORTS CONTAINS
BOTH FOREIGN AND DOMESTIC REFERENCES. SOME OF THE
SUBJECTS OF THESE REPORTS ARE (1) FOULING
ORGANISMS, (2) ANTIFOULING COATINGS, (3)
OTHER ANTIFOULING PROTECTIVE MEASURES, AND (4)
DISTRIBUTION AND ECOLOGY OF FOULING AQUATIC ANIMALS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-602 779

COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER N H
BIBLIOGRAPHY ON SNOW, ICE AND PERMAFROST WITH
ABSTRACTS. CUMULATIVE INDEX, VOLS. I-XVII. (U)

JUN 64 261P

MONITOR: CRREL 12

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COLD WEATHER TESTS), (*SNOW,
BIBLIOGRAPHIES), (*ICE, BIBLIOGRAPHIES),
(*PERMAFROST, BIBLIOGRAPHIES), INDEXES,
SUBJECT INDEXING, ABSTRACTS, PROCESSING (U)

THIS CUMULATIVE INDEX COVERS SIPRE AND CRREL
ABSTRACTS 1 TO 21,000 WHICH HAVE BEEN PUBLISHED IN
17 VOLUMES. THE FOUR PARTS OF THE WORK, AUTHOR,
TITLE, PATENT, AND SUBJECT INDEXES SUPERSEDE THE
CUMULATIVE INDEXES PUBLISHED IN 1955 AND 1956. THE
AUTHOR INDEX LISTS THE AUTHORS OF ALL ABSTRACTS
PRODUCED TO JUNE 1963. THE TITLE INDEX
IDENTIFIES PAPERS IN THE ABOVE SERIES FOR WHICH
AUTHORS ARE UNIDENTIFIED. THE PATENT INDEX IS A
LISTING BY SUBJECT OF ALL PATENTS ABSTRACTED. THE
SUBJECT INDEX CONSISTS OF APPROXIMATELY FOUR THOUSAND
SUBJECT HEADINGS AND CROSS-REFERENCES AND SERVES AS
THE SUBJECT CONTROL FOR THE CRREL BIBLIOGRAPHY
PROJECT, IN ADDITION TO ITS FUNCTION AS A RETRIEVAL
TOOL FOR THE READER. THE SUBJECT COVERAGE FOR THE
NEEDS OF CRREL AND OTHER USERS IS FURTHER
CLASSIFIED BY USING TOPICAL AND GEOGRAPHIC
SUBDIVISIONS FOR THE HEADINGS. THE USE OF SOME
TOPICS AS SUB-DIVISIONS OF OTHER TOPICS HAS BEEN
INDICATED AND CROSSREFERENCED AS NECESSARY.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AJ-604 55)

AIR FORCE CAMBRIDGE RESEARCH LABS L G HANSCOM FIELD
MASS

BIBLIOGRAPHY OF ROCK DEFORMATION. (U)

DESCRIPTIVE NOTE: SPECIAL REPTS.,

SEP 64 58P FIECKER, R. E. ;

PROJ: 8652

MONITOR: AFCRL , AFCRL 64 713; , SR5

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (SHOCK (GEOLOGY), DEFORMATION),
(BIBLIOGRAPHIES, ROCK (GEOLOGY)), BRITTLENESS,
CALCITE, CALIBRATION, COMPRESSIVE PROPERTIES,
CONDUCTIVITY, CREEP, DENSITY, X-RAYS, ELASTICITY,
FRICTION, METAMORPHIC ROCK, METALS, PHASE STUDIES,
PLASTICITY, QUARTZ, SAFETY, SEDIMENTARY ROCK,
SEISMOLOGY, SHEAR STRESSES, SHOCK (MECHANICS), STRAIN
(MECHANICS), VISCOSITY (U)

IDENTIFIERS: OLIVINE (U)

A BIBLIOGRAPHY OF 490 ROCK-DEFORMATION RESEARCH
ARTICLES PUBLISHED IN SCIENTIFIC JOURNALS IS
PRESENTED WITH BOTH SUBJECT AND AUTHOR ENTRIES.
THE CROSS-REFERENCED SUBJECT LISTINGS FALL INTO THE
FOLLOWING MAJOR CATEGORIES: APPARATUS, BRITTLE
BEHAVIOR, CALCITE, CALIBRATION,
COMPRESSIBILITY, CONDUCTIVITY, CREEP,
DENSITY, DOLOMITE, ELASTIC BEHAVIOR AND
ELASTIC CONSTANTS, FABRIC, FRICTION,
GENERAL, MARBLE, METALS, OLIVINE, PHASE
STUDIES, PLASTIC BEHAVIOR, QUARTZ,
RESISTANCE, SAFETY, SEDIMENTARY ROCKS,
SEISMIC VELOCITIES, SHEAR, SHOCK, STRAIN
RATE, SURVEYS, VISCOSITY, X-RAY.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-609 832

NAVAL AIR DEVELOPMENT CENTER JOHNSVILLE PA ANTI-SUBMARINE
WARFARE LAB

DEEXCITATION OF HELIUM ATOMS IN THE METASTABLE
TRIPLET STATE (2-3S) IN PURE HELIUM. (U)

DESCRIPTIVE NOTE: FOUNDATIONAL RESEARCH PHASE REPT.,
DEC 64 61P ELDER, F. K., JR.; WINTZER, W. F.

TASK: FM30 3 06

MONITOR: NADC AW , 6428

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•MAGNETOMETERS, HELIUM), (•HELIUM,
ATOMIC ENERGY LEVELS), LINE SPECTRUM, DEGRADATION,
ATOMIC SPECTROSCOPY, GAS IONIZATION, ATOMIC
PROPERTIES, ATOMIC ORBITALS, BIBLIOGRAPHIES,
ABSTRACTING (U)

IDENTIFIERS: PARTICLE INTERACTIONS (U)

THE PROCESSES WHEREBY THE FUNCTIONING OF METASTABLE
HELIUM MAGNETOMETER MAY BE DETERIORATED OR DESTROYED
BY DEEXCITATION OF METASTABLE TRIPLET ATOMS ARE
DISCUSSED, WITH PARTICULAR ATTENTION TO PROCESSES
THAT TAKE PLACE EVEN IN VERY PURE HELIUM. TOPICS
TREATED INCLUDE RELATIVE EFFECTIVENESS OF DESTRUCTION
PROCESSES, SPECIES OF COLLIDING PARTICLES AND TYPES
OF COLLISIONS, AND EFFECTS OF CELL DIMENSIONS AND
PRESSURE ON METASTABLE DESTRUCTION. (DEEXCITATION
BY IMPURITIES, AND PROCESSES INVOLVING THE RARER
HELIUM ISOTOPE OF MASS THREE, WILL BE CONSIDERED IN
SUBSEQUENT REPORTS.) A BIBLIOGRAPHY OF THE
UNCLASSIFIED PERIODICAL LITERATURE ARRANGED
ALPHABETICALLY BY AUTHOR IS INCLUDED, GIVING TITLES
AND ABSTRACTS OF ARTICLES, TO PROVIDE A CONCISE BUT
RELATIVELY COMPLETE SURVEY OF THE FIELD. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-611 555

ARMY RESEARCH OFFICE WASHINGTON D C
SCIENTIFIC AND TECHNICAL APPLICATIONS FORECAST, 1964,
EXCAVATION. (U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY.

64 87P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: THIS IS A BIBLIOGRAPHY FOR A REPORT
PREPARED BY THE HUGHES TOOL COMPANY ON CONTRACT
D449 D92AR020.

DESCRIPTORS: (MINING ENGINEERING, BIBLIOGRAPHIES),
(CIVIL ENGINEERING, BIBLIOGRAPHIES), (EARTH-HANDLING
EQUIPMENT, BIBLIOGRAPHIES), (BIBLIOGRAPHIES, MINING
ENGINEERING), ENGINEERING, GEOLOGY, INDUSTRIAL
EQUIPMENT, REVIEWS (U)

THIS IS A BIBLIOGRAPHY FOR A REPORT PREPARED ON THE
STATE OF THE ART OF EXCAVATION WITH PARTICULAR
EMPHASIS ON ROCK EXCAVATION UNDERGROUND. THE STATE
OF THE ART REPORT INCLUDES A TECHNOLOGICAL FORECAST
AND A RESEARCH PLAN. THE BIBLIOGRAPHY CONTAINS A
COMPLETE LISTING OF SIGNIFICANT LITERATURE ON THE
SUBJECT OF ROCK EXCAVATION UNDERGROUND. THOSE
TECHNICAL PAPERS WHICH WERE EITHER REPETITIVE,
INCOMPLETE, OR OUT OF DATE WERE ELIMINATED FROM THE
BIBLIOGRAPHY. THOSE VERY SIGNIFICANT PAPERS OR
REPORTS ARE ABSTRACTED AND A DIGEST OF THEM IS
INCLUDED. THE ORGANIZATION OF THE BIBLIOGRAPHY
FOLLOWS THAT GENERAL OUTLINE OF THE REPORT FOR WHICH
IT WAS MADE. VARIOUS CHAPTERS CORRESPOND TO THE
MAIN SUBJECT RELATIVE TO THIS ART. EXCEPT FOR
CHAPTER I ON GEOLOGY, ALL CHAPTERS DEAL WITH
SPECIFIC METHODS OF EXCAVATION. (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-612 423

WOODS HOLE OCEANOGRAPHIC INSTITUTION MASS
BIBLIOGRAPHY OF REPORTS, 1964,

(U)

JAN 65 13P BACKUS, JEANNE M. ;
REPT. NO. REF-64-54

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, OCEANOLOGY),
(OCEANOLOGY, BIBLIOGRAPHIES), REPORTS, OCEANOGRAPHIC
DATA, OCEANOGRAPHIC EQUIPMENT, INDEXES

(U)

A CHRONOLOGICAL INDEX OF OCEANOGRAPHIC RESEARCH
CARRIED OUT BY THE WOODS HOLE OCEANOGRAPHIC
INSTITUTION IS PRESENTED. AN AUTHOR INDEX IS
ALSO INCLUDED.

(U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AJ-615 459

AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE

A SELECTED INVENTORY OF LATIN AMERICAN AGRICULTURAL
COLONIES WITH ANNOTATED BIBLIOGRAPHY, (U)

64 124P WINSOR, CURTIN, JR.;

MACFARLANE, JOSEPH;

REPT. NO. SORU/CINFAC/18-65

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*RURAL AREAS, SOUTH AMERICA), (*SOUTH
AMERICA, RURAL AREAS), (*CENTRAL AMERICA, RURAL
AREAS), AGRICULTURE, BIBLIOGRAPHIES, BRAZIL, CHILE,
COLOMBIA, ECUADOR, GUATEMALA, HONDURAS, PERU,
VENEZUELA (U)

IDENTIFIERS: COLONY PROJECT, LATIN AMERICA, BOLIVIA,
PARAGUAY, URUGUAY, COLONIZATION (U)

WITH A FEW NOTED EXCEPTIONS, THIS PAPER IS LIMITED
IN ITS SCOPE TO AGRICULTURAL COLONIES AND SETTLEMENTS
THAT WERE FOUNDED AFTER 1945 AND HAD SUFFICIENT
LITERATURE TO JUSTIFY A PROFILE-OUTLINE. AS SUCH,
THE PAPER IDENTIFIES ONLY A SMALL PART OF THE
LITERATURE ON THE PROCESS OF LAND SETTLEMENT IN
PRESENT-DAY LATIN AMERICA. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-617 713

NATIONAL ACADEMY OF SCIENCES-NATIONAL RESEARCH COUNCIL
WASHINGTON D C PACIFIC SCIENCE BOARD
ATOLL RESEARCH BULLETIN, NOS. 109-112. (U)

JUL 65 120P RUGGELN, RICHARD G.; TSUDA, ROY

T. MILLIMAN, JOHN D.;

CONTRACT: NONR240012

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: CONTENTS: A PRELIMINARY LIST OF THE
ALGAL FLORA OF THE MIDWAY ISLANDS; MARINE ALGAE
FROM LAYSAN ISLAND WITH ADDITIONAL NOTES ON THE VASCULAR
FLORA; AN ANNOTATED BIBLIOGRAPHY OF RECENT PAPERS ON
CORALS AND CORAL REEFS; ATOLL NEWS AND COMMENT.

DESCRIPTORS: (PLANTS (BOTANY), MIDWAY),
(MARINE BIOLOGY, MIDWAY), ALGAE, CORAL REEFS,
MARINE GEOLOGY, SEDIMENTATION, ECOLOGY,
AQUATIC ANIMALS, INVERTEBRATES, PACIFIC OCEAN,
MARINE GEOPHYSICS, OCEANOLOGY, BIBLIOGRAPHIES,
ABSTRACTING (U)

ATOLL RESEARCH BULLETIN, NOS. 109-112.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-618 941

NATIONAL OCEANOGRAPHIC DATA CENTER WASHINGTON D C
REFERENCE SOURCES FOR OCEANOGRAPHIC STATION DATA,
VOLUME II.

(U)

DESCRIPTIVE NOTE: CATALOG SERIES,

65 144P JOHNSON, CARMEN R. ;

REPT. NO. NODC-C-1 VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: AVAILABLE FROM U. S. NAVAL
OCEANOGRAPHIC DATA CENTER, WASHINGTON, D. C.
20390, HC\$2.00. AVAILABLE FROM CFSTI MF\$1.00. SEE
ALSO AD-618 940.

DESCRIPTORS: (*OCEANOGRAPHIC DATA,
BIBLIOGRAPHIES), (*DOCUMENTATION, OCEANOGRAPHIC
DATA), SCIENTIFIC RESEARCH, REPORTS, LIBRARIES,
CATALOGS, INFORMATION RETRIEVAL

(U)

THIS PUBLICATION IS A CATALOG OF REFERENCE SOURCES
FROM WHERE OCEANOGRAPHIC STATION DATA (SOURCE
MATERIAL) AVAILABLE AT THE NATIONAL
OCEANOGRAPHIC DATA CENTER WERE OBTAINED.
APPENDIXES CONTAIN NODC REFERENCE CRUISE
NUMBER INDEX BY COUNTRY AND LIST OF FINAL
PROCESSED CRUISES AS OF 1 JULY 1964.

(U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-621 041

COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER N H
BIBLIOGRAPHY ON SNOW, ICE AND PERMAFROST WITH
ABSTRACTS. VOLUME XIX. (U)

JUN 65 292P

REPT. NO. CRREL-12

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO PR 167 417.

DESCRIPTORS: (*SNOW, BIBLIOGRAPHIES), (*ICE,
BIBLIOGRAPHIES), (*PERMAFROST, BIBLIOGRAPHIES),
COLD WEATHER TESTS, POLAR REGIONS, CIVIL
ENGINEERING, GEOPHYSICS, METEOROLOGY,
CLIMATOLOGY, ABSTRACTING (U)

THE BIBLIOGRAPHY PROVIDES A CURRENT AND
COMPREHENSIVE COVERAGE OF BASIC AND APPLIED
SCIENTIFIC RESEARCH ON SNOW, ICE, AND PERMAFROST, AS
WELL AS LIVING AND WORKING IN POLAR REGIONS AND OTHER
COLD AREAS. EACH ENTRY INCLUDES A BIBLIOGRAPHIC
CITATION, CODE DESIGNATING THE LIBRARY HOLDING OF THE
ABSTRACTED ITEM, ASSIGNED CALL NUMBER, UNIVERSAL
DECIMAL CLASSIFICATION NUMBER, AND THE ABSTRACT.
THIS VOLUME HAS A GEOGRAPHIC INDEX WHICH WAS
INCLUDED AS A FORERUNNER TO FUTURE EDITIONS
CONTINGENT ON THE VALUE DERIVED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-521 643

ARMY LIBRARY WASHINGTON D C

SOIL COMPACTION AND STABILIZATION: A SELECTED LIST
OF TITLES.

(U)

DESCRIPTIVE NOTE: SPECIAL BIBLIOGRAPHY.

MAY 56 44P

REPT. NO. SB-6

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SOIL MECHANICS, BIBLIOGRAPHIES),
SOILS, STABILIZATION, EARTH-HANDLING EQUIPMENT,
CIVIL ENGINEERING

(U)

THE BIBLIOGRAPHY OF SELECTED TITLES ON SOIL
COMPACTION IS LIMITED TO THEORY, ENGINEERING METHODS,
TESTS, SPECIFICATIONS AND CONTROL, AS WELL AS SEVERAL
CASE STUDIES. THE COMPILATION REPRESENTS ONLY A
SMALL PORTION OF LITERATURE AVAILABLE ON THE SUBJECT.

(U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-621 982

NAVY ELECTRONICS LAB SAN DIEGO CALIF

INTERNAL WAVES IN THE SEA.

(U)

DESCRIPTIVE NOTE: RESEARCH AND DEVELOPMENT REPT. FOR

JUN 63-JUN 64,

JUL 65 61P LEE, O. S. ;

REPT. NO. 1302

PROJ: SROU4 03 01

TASK: 0580

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (OCEAN WAVES, REVIEWS),
(UNDERWATER SOUND, OCEAN WAVES), PROPAGATION,
BIBLIOGRAPHIES

(U)

IDENTIFIERS: *INTERNAL WAVES

(M)

INTERNAL WAVES EXIST IN THE OCEAN AS A RULE RATHER THAN AN EXCEPTION. ENERGY IS TRANSPORTED BY THEM IN CHANNELS THAT ARE SIMILAR TO SOUND CHANNELS. THEIR EFFECT ON NAVAL EXERCISES AND EQUIPMENT, PARTICULARLY FUNCTIONS INVOLVING THE USE OF UNDERWATER SOUND, CAN BE EXPECTED TO BE MORE PRONOUNCED IN THESE CHANNELS. ALTHOUGH THEORY AND OBSERVATION ARE STILL NOT ADEQUATE FOR A FULL UNDERSTANDING OF THE PHENOMENON, WESTERN LITERATURE PRIOR TO JUNE 1963 CONTAINS MORE THAN 300 PUBLICATIONS DEALING WITH INTERNAL WAVES IN THE ATMOSPHERE, LAKES, AND SEAS. THESE PUBLICATIONS ARE LISTED IN THE COMPREHENSIVE BIBLIOGRAPHY WHICH IS PART OF THIS REPORT. (AUTHOR)

(U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-623 184

MICHIGAN UNIV ANN ARBOR INST OF SCIENCE AND
TECHNOLOGY

VESTAC MONTHLY BULLETIN OF VELA UNIFORM RESEARCH
PUBLICATIONS.

(U)

SEP 65 HP

REPT. NO. BULL-22

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (SEISMOLOGY, BIBLIOGRAPHIES),
SEISMIC WAVES, PROPAGATION, GEOLOGY,
EARTHQUAKES, NUCLEAR EXPLOSIONS, IDENTIFICATION
SYSTEMS

(U)

IDENTIFIERS: VELA-UNIFORM

(U)

BIBLIOGRAPHY OF SEISMOLOGICAL RESEARCH
PUBLICATIONS.

(U)

UNCLASSIFIED

UDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-624 466 8/10
METEOROLOGICAL AND GEOSTROPHICAL ABSTRACTS WASHINGTON D
C
BIBLIOGRAPHY ON PHYSICAL OCEANOGRAPHY OF THE INDIAN
OCEAN. (U)
DESCRIPTIVE NOTE: SPECIAL BIBLIOGRAPHIES,
JUN 65 128P SAMUEL, PARKASH ;
REPT. NO. OCEANOGRAPHY CONTRIBUTION-2
CONTRACT: N62306-1145

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (OCEANOLOGY, INDIAN OCEAN),
(INDIAN OCEAN, OCEANOGRAPHIC DATA), PHYSICAL
PROPERTIES, BIBLIOGRAPHIES (U)

THE SCOPE OF THIS BIBLIOGRAPHY IS LIMITED TO THE
DIFFERENT ASPECTS OF PHYSICAL OCEANOGRAPHY, VIZ.:
TEMPERATURE, DENSITY, SALINITY, CHEMICAL
COMPOSITION, WAVES, CURRENTS, CIRCULATION, METHODS OF
MEASUREMENTS, INSTRUMENTS, ETC. PAPERS ON BOTTOM
TOPOGRAPHY, GEOLOGY AND BIOLOGY HAVE BEEN EXCLUDED.
MATERIAL ON THE WEATHER AND CLIMATE OF THE INDIAN
OCEAN, OF ITS ISLANDS AND OF THE INDIAN
SUBCONTINENT HAS BEEN RESERVED FOR FUTURE
BIBLIOGRAPHIES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-A25 426 8/6

TEXAS INSTRUMENTS INC DALLAS SCIENCE SERVICES DIV
AN INVENTORY OF GEOGRAPHIC RESEARCH OF THE HUMID
TROPIC ENVIRONMENT. VOLUME I. KWIC INDEX. HUMID
TROPIC ENVIRONMENTAL LITERATURE, (U)

DEC 65 519P VOGEL, HARVEY ;
CONTRACT: DA-49-092-ARO-22

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (TROPICAL REGIONS, GEOGRAPHY),
(GEOGRAPHY, TROPICAL REGIONS), (HUMIDITY,
TROPICAL REGIONS), SUBJECT INDEXING,
BIBLIOGRAPHIES, GEOLOGY, HYDROLOGY, SOILS,
PLANTS(BOTANY), ANIMALS, METEOROLOGY,
CLIMATOLOGY, AFRICA, ASIA, SOUTH AMERICA,
CENTRAL AMERICA, PACIFIC OCEAN ISLANDS,
ECOLOGY (U)

IDENTIFIERS: KWIC INDEX (U)

HUMID TROPIC ENVIRONMENTAL LITERATURE HAS BEEN
COLLECTED AT DOMESTIC AND FOREIGN DEPOSITORIES TO AID
IN THE DETERMINATION OF AN INVENTORY OF GEOGRAPHIC
RESEARCH OF THE HUMID TROPIC ENVIRONMENT.
DOCUMENTS WERE SCREENED, ABSTRACTED AND PLACED IN
DATA PROCESSING FORMAT FOR VARIOUS PROGRAM TASKS.
THE COLLECTED BIBLIOGRAPHY IS PRESENTED IN A KWIC
INDEX FOR RAPID SEARCHING BY USERS. THE KWIC
INDEX CONTAINS 14,515 DOCUMENTS, 9,170 AUTHORS AND
59,400 KEYWORDS. IT APPEARS IN FIVE SECTIONS:
A-FREQUENCY OF STOP WORDS; B-FREQUENCY OF
OR WORDS; C-AUTHOR LISTING AND INDEX; D-
KEYWORD LISTING AND INDEX, AND E-
BIBLIOGRAPHIC LISTING AND INDEX. THE LAST
SECTION (E) IS ARRANGED IN GEOGRAPHIC, SUBJECT AND
AUTHOR ORDER. APPROXIMATELY 10 PERCENT OF THE
DOCUMENTS ARE ABSTRACTED. DOCUMENTS OF MILITARY
SIGNIFICANCE OR OF GREAT SCIENTIFIC VALUE ARE
INDICATED. MATERIALS ARE DERIVED PRIMARILY FROM
THE LITERATURE OF THE FOLLOWING DISCIPLINES:
GEOGRAPHICAL, EARTH, ATMOSPHERIC, AND
BIOLOGICAL SCIENCES. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-627 002 8/7 8/11
AIR FORCE CAMBRIDGE RESEARCH LABS L G HANSCOM FIELD
MASS
BIBLIOGRAPHY OF EXPERIMENTAL ROCK DEFORMATION, SECOND
EDITION. (U)
DESCRIPTIVE NOTE: SPECIAL REPTS.,
OCT 65 114P RIECKER, R. E. ; COOK, H. L. ;
PENNINGTON, D. L. ;
PROJ: AF-7639
TASK: 763905
MONITOR: AFRL, AFRL 65-747, SR-35

UNCLASSIFIED REPORT

DESCRIPTORS: (ENGINEERING GEOLOGY,
BIBLIOGRAPHIES), (ROCK (GEOLOGY),
DEFORMATION), (SEISMOLOGY, BIBLIOGRAPHIES),
GEOPHYSICS, MINERALS, PETROLOGY (U)

A BIBLIOGRAPHY OF OVER 1000 ROCK DEFORMATION
RESEARCH ARTICLES PUBLISHED IN SCIENTIFIC JOURNALS
AND BOOKS IS PRESENTED WITH BOTH SUBJECT AND AUTHOR
ENTRIES. THE CROSS-REFERENCED SUBJECT LISTINGS
INCLUDE THE FOLLOWING MAJOR CATEGORIES: APPARATUS,
BRITTLE BEHAVIOR, CALCITE, CALIBRATION,
CONDUCTIVITY, CREEP, DISLOCATIONS, DOLomite,
DUCTILE BEHAVIOR, ELASTIC BEHAVIOR AND
ELASTIC CONSTANTS, FABRIC, FRICTION,
GENERAL, ICE, MARBLE, OLIVINE, PHASE
STUDIES, QUARTZ, RECRYSTALLIZATION,
RESISTANCE, SAFETY, SEDIMENTARY ROCKS,
SEISMIC VELOCITIES, SHEAR, SHOCK, STRAIN
RATE, SURVEYS, VISCOSITY, X-RAY.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-627 183 6/11
MICHIGAN UNIV ANN ARBOR INST OF SCIENCE AND
TECHNOLOGY
VESTAC MONTHLY BULLETIN OF VELA UNIFORM RESEARCH
PUBLICATIONS. (U)
DEC 65 17P
REPT. NO. VESTAC BULLFTIN NO. 25

UNCLASSIFIED REPORT

DESCRIPTORS: (SEISMOLOGY, BIBLIOGRAPHIES),
INSTRUMENTATION, GEOPHYSICS, GEOLOGY,
EARTHQUAKES, ABSTRACTS, PERIODICALS (U)
IDENTIFIERS: VELA-UNIFORM (U)

BIBLIOGRAPHY OF ABSTRACTS PERTAINING TO SEISMOLOGY. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-427 785 H/3
NAVAL RESEARCH LAB WASHINGTON D C
PHYSICAL EFFECTS ON THE OCEAN SURFACE. (U)
DEC 65 17P SMITH, W. W. ;
REPT. NO. NRL-RIR-26

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (OCEANOLOGY, BIBLIOGRAPHIES),
OCEANS, SURFACE PROPERTIES, OCEANOGRAPHIC
DATA (U)

THIS BIBLIOGRAPHY WAS ORIGINALLY COMPILED AS AN AID
TO MEMBERS OF THE HIGH RESOLUTION BRANCH,
RADAR DIVISION IN THE SURFACE EFFECTS
PROGRAM. IT IS LIMITED TO MATERIAL IN WHICH THE
PRIMARY CONCERN IS THE OCEAN SURFACE. IT IS
PUBLISHED AS A POSSIBLE AID TO OTHERS IN A SIMILAR
FIELD OF ENDEAVOR. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-629 758 8/10 8/3
WOODS HOLE OCEANOGRAPHIC INSTITUTION MASS
BIBLIOGRAPHY OF REPORTS 1965, (U)
JAN 66 14P FUGLISTER, CECELIA B. I
REPT. NO. REF-65-67,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (OCEANOLOGY, BIBLIOGRAPHIES),
MARINE METEOROLOGY, MARINE GEOPHYSICS,
OCEANOGRAPHIC DATA, REPORTS (U)

BIBLIOGRAPHY OF OCEANOGRAPHICAL REPORTS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-624 983 8/7 13/2
ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG
MISS
SELECTED GEOLOGIC LITERATURE LOWER MISSISSIPPI VALLEY
DIVISION AREA INDEX AND ANNOTATED BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
JAN 66 121P SAUCIER, R. T. ;
REPT. NO. TR-3-712,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*GEOLOGY, BIBLIOGRAPHIES), (*CIVIL
ENGINEERING, GEOLOGY), MAPS, ENGINEERING (U)
GEOLOGY, HYDROLOGY (U)
IDENTIFIERS: MISSISSIPPI VALLEY (U)

THE PURPOSE OF THIS REPORT IS TO ASSIST THE
DIVISION OR DISTRICT ENGINEERS AND GEOLOGISTS BY
EVALUATING THE EXISTING BODY OF GEOLOGIC LITERATURE,
BY LISTING AND INDEXING BY AREA THE MORE SIGNIFICANT
REPORTS, MAPS, AND RELATED MATERIAL, AND BY POINTING
OUT THE PRIMARY SOURCES OF THESE DATA. (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-635 571 8/11 17/10
MICHIGAN UNIV ANN ARBOR INST OF SCIENCE AND
TECHNOLOGY
VESIAC MONTHLY BULLETIN OF VELA UNIFORM RESEARCH
PUBLICATIONS. (U)
MAY 66 26P
REPT. NO. VESIAC BULL-40,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SEISMOLOGY, BIBLIOGRAPHIES),
PERIODICALS, SEISMIC WAVES, PROPAGATION,
GEOPHYSICAL PROSPECTING, HEAT TRANSFER,
EARTHQUAKES, NUCLEAR EXPLOSIONS, DATA PROCESSING
SYSTEMS (U)

IDENTIFIERS: VESIAC, VELA-UNIFORM (U)

BIBLIOGRAPHY OF RESEARCH PUBLICATIONS ON SEISMOLOGY
AND SEISMIC DETECTION. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-639 101 8/3
NATIONAL ENGINEERING SCIENCE CO MCLEAN VA
A BIBLIOGRAPHY ON STORM SURGES AND RELATED
SUBJECTS. (U)

AUG 66 21P PRETSCHNEIDER, C. L. ; PICK, G. S.

REPT. NO. SN-134-12,
CONTRACT: NONR-4177(00),

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, OCEAN WAVES),
(*OCEAN WAVES, *STORMS), OCEANOLOGY (U)

BIBLIOGRAPHY ON STORM SURGES AND RELATED SUBJECTS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-639 695 876
AMERICAN UNIV WASHINGTON D C CENTER FOR RESEARCH IN
SOCIAL SYSTEMS
INTRODUCTORY GUIDE TO LATIN AMERICAN STUDIES. A
BIBLIOGRAPHIC ESSAY, (U)
JUL 66 33P DAME, HARTLEY F. ;
MACHON, JOSEPH M. ;
CONTACT: DA-49-U92-ARD-7,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (LATIN AMERICA, SOCIAL SCIENCES),
HISTORY, ECONOMICS, POLITICAL SCIENCE,
EDUCATION, RELIGION, CULTURE, BIBLIOGRAPHIES (U)

DESIGNED TO ASSIST BEGINNING STUDENTS OF LATIN
AMERICA, THIS ESSAY DISCUSSES WORKS CONSIDERED BY
THE AUTHORS TO BE MOST USEFUL IN IMPARTING GENERAL
INTRODUCTORY KNOWLEDGE. WORKS SELECTED ARE LIMITED
TO THOSE PUBLISHED IN THE ENGLISH LANGUAGE BY
AUTHORS WHOSE REPUTATIONS INSURE WIDE DISTRIBUTION
AND AVAILABILITY OF THEIR WORKS. HISPANIC
AMERICA, LUSITANIC AMERICA, AND MIDDLE
AMERICA AND THE CARIBBEAN ARE DISCUSSED
SEPARATELY. IN ADDITION TO THE WORKS DISCUSSED IN
THE ESSAY, A SUPPLEMENTAL BIBLIOGRAPHY ON POLITICS IN
HISPANIC AMERICA IS PROVIDED. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-640 320 8/7 8/11
AIR FORCE CAMBRIDGE RESEARCH LABS L G HANSCOM FIELD
MASS
BIBLIOGRAPHY OF EXPERIMENTAL ROCK DEFORMATION, SECOND
EDITION, PART II. (U)
DESCRIPTIVE NOTE: SPECIAL REPTS.,
AJG 66 15P FIECKER, R. E. ;
REPT. NO. AFCL-SR-35-PT-2, AFCL-45-740-PT-2
PROJ: AF-7639,
TASK: 763905,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-627 002.

DESCRIPTORS: (ENGINEERING GEOLOGY,
BIBLIOGRAPHIES), (ROCK(GEOLOGY),
DEFORMATION), (SEISMOLOGY, BIBLIOGRAPHIES),
GEOPHYSICS, MINERALS, PETROLOGY (U)

THIS FIRST SUPPLEMENT TO THE 'BIBLIOGRAPHY OF
EXPERIMENTAL ROCK DEFORMATION, SECOND
EDITION,' (AD-627 002) AFCL-65-740, OCTOBER
1965, LISTS 111 CROSS-REFERENCED RESEARCH ARTICLES
TAKEN FROM SCIENTIFIC JOURNALS AND BOOKS. THE
LISTINGS INCLUDE THE FOLLOWING 29 CATEGORIES:
APPARATUS, BRITTLE BEHAVIOR, CALCITE,
CALIBRATION, CONDUCTIVITY, CREEP,
DISLOCATIONS, FABRIC, FRICTION, GENERAL,
ICE, MARBLE, OLIVINE, PHASE STUDIES,
QUARTZ, RECRYSTALLIZATION, RESISTANCE,
SEDIMENTARY ROCKS, SEISMIC VELOCITIES,
SHEAR, SHOCK, STRAIN RATE, SURVEYS,
VISCOSITY, AND X-RAY. (AUTHOR) (U)

UNCLASSIFIED

DCC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-641 115 8/12
COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER N H
BIBLIOGRAPHY ON SNOW ICE AND FROZEN GROUND
WITH ABSTRACTS. VOLUME XX, (U)
JUN 66 347P MARSON, FRANK M. ;
REPT. NO. 12.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-621 041.

DESCRIPTORS: (*SNOW, BIBLIOGRAPHIES), (*ICE,
BIBLIOGRAPHIES), (*PERMAFROST, BIBLIOGRAPHIES),
ABSTRACTS, POLAR REGIONS (U)

THE BIBLIOGRAPHY PROVIDES A CURRENT AND
COMPREHENSIVE COVERAGE OF BASIC AND APPLIED
SCIENTIFIC RESEARCH ON SNOW, ICE, AND FROZEN GROUND,
AS WELL AS LIVING AND WORKING IN POLAR REGIONS AND
OTHER COLD AREAS. (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-441 712 8/13
VIRGINIA UNIV CHARLOTTESVILLE RESEARCH LABS FOR THE
ENGINEERING SCIENCES
BIBLIOGRAPHY ON EARTH MOVEMENT, (U)
APR 64 230P LAREW, H. GORDON; LOVIE, PETER
M. JUDGE, WILLIAM R.; PODGERS, WILLIAM H.;
HEPT. NO. CE-3343-108-640
CONTRACT: DA-22-079-ENG-384
PROJ: DA-1-1-C-21701-A-046

UNCLASSIFIED REPORT

DESCRIPTORS: (SOIL MECHANICS, BIBLIOGRAPHIES),
GEOLOGY, AVALANCHES, SOILS, STABILIZATION,
MOTION, ROADS, FOUNDATIONS (STRUCTURES),
BRIDGES, DAMS (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-643 741 P/11
MICHIGAN UNIV ANN ARBOR INST OF SCIENCE AND
TECHNOLOGY
VESTAC MONTHLY BULLETIN OF VELA UNIFORM RESEARCH
PUBLICATIONS. (U)
OCT 66 17P
REPT. NO. VESTAC BULL-45

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-629 954.

DESCRIPTORS: (SEISMOLOGY, BIBLIOGRAPHIES),
SEISMIC WAVES, ABSTRACTS, EARTHQUAKES, (U)
GEOPHYSICS, NUCLEAR EXPLOSIONS (U)
IDENTIFIERS: VESTAC, VELA UNIFORM (U)

APPROXIMATELY 24 REFERENCES ARE LISTED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-646 573 8/11 17/10 8/7
MICHIGAN UNIV ANN ARBOR INST OF SCIENCE AND
TECHNOLOGY
VESIAC MONTHLY BULLETIN OF VELA UNIFORM RESEARCH
PUBLICATIONS.
DEC 66 19P
REPT. NO. VESIAC BULL-47

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-644 213.

DESCRIPTORS: (SEISMOLOGY, PERIODICALS),
BIBLIOGRAPHIES, ABSTRACTS, SEISMIC WAVES,
NUCLEAR EXPLOSIONS, EARTHQUAKES, STRUCTURAL
GEOLOGY

IDENTIFIERS: VELA UNIFORM, VESIAC

(U)

(U)

THE LISTING CONTAINS ABSTRACTS OF SEMI-ANNUAL,
ANNUAL, AND FINAL REPORTS; TECHNICAL NOTES AND
JOURNAL ARTICLES RESULTING FROM VELA UNIFORM
SPONSORED RESEARCH.

(U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-648 536 8/10 8/73
WOODS HOLE OCEANOGRAPHIC INSTITUTION MASS
BIBLIOGRAPHY OF REPORTS, 1966, (U)
JAN 67 17P FUGLISTER, CECELIA B. ;
REPT. NO. WHOI-REP-66-72

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-62# 75A.

DESCRIPTORS: (BIBLIOGRAPHIES, OCEANOLOGY),
MARINE METEOROLOGY, MARINE GEOPHYSICS,
OCEANOGRAPHIC DATA, REPORTS (U)

BIBLIOGRAPHY OF OCEANOGRAPHICAL REPORTS INCLUDING
AUTHOR AND CONTRACT INDICES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-654 716 8/10 20/1
TEXAS UNIV AUSTIN DEFENSE RESEARCH LAB
REFLECTION AND SCATTERING OF SOUND BY THE OCEAN
BOUNDARIES: A BIBLIOGRAPHY. (U)
JUL 67 53P FREY, H. G. ;
REPT. NO. DFL-A-285
CONTRACT. N065R-93127
PROJ: SF-1010715
TASK: 9116

UNCLASSIFIED REPORT

DESCRIPTORS: (OCEANOGRAPHIC DATA,
BIBLIOGRAPHIES), (UNDERWATER SOUND,
BIBLIOGRAPHIES), SCATTERING, REFLECTION,
OCEAN BOTTOM, SURFACE PROPERTIES, ACOUSTIC
PROPERTIES, ROUGHNESS, DEPTH FINDING,
SEDIMENTATION, DISTORTION, SHALLOW WATER,
VELOCITY, OCEAN BOTTOM SAMPLING, MEASUREMENT,
SAND, THEORY, DEEP WATER (U)

THE BIBLIOGRAPHY IS THE RESULT OF A SURVEY OF
ARTICLES AND REPORTS PERTAINING TO THE REFLECTION AND
SCATTERING OF SOUND FROM THE OCEAN BOTTOM AND THE
OCEAN SURFACE. THE FIRST PORTION OF THIS REPORT IS
AN ANNOTATED BIBLIOGRAPHY OF REPORTS AND PAPERS
CONCERNING REFLECTION FROM LAYERED OCEAN BOTTOMS.
THE SECOND SECTION CONCERNS THE REFLECTION OF
PULSES FROM LAYERED OCEAN BOTTOMS. THE NEXT
SECTION IS A LIST OF ABSTRACTS OF REPORTS AND PAPERS
RELATED TO THE ACOUSTIC PROPERTIES OF OCEAN BOTTOMS.
THE FINAL PORTION OF THE REPORT IS A LIST OF
ABSTRACTS OF REPORTS AND PAPERS CONCERNING THE
SCATTERING OF SOUND BY ROUGH SURFACES. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-654 987 8/11 5/2
MICHIGAN UNIV ANN ARBOR INST OF SCIENCE AND
TECHNOLOGY
VELA-UNIFORM SPONSORED RESEARCH PUBLICATIONS IN
SEISMOLOGY: FIRST REVISION. (U)
JAN 67 37P
REPT. NO. 7885-5-X1
CONTRACT: DA-49-083-05A-7137
PROJ: GRA-7885

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPT. ON PROJ. VESIAC.

DESCRIPTORS: (•SEISMOLOGY, BIBLIOGRAPHIES),
SEISMIC WAVES, TERRAIN, SEISMOLOGICAL STATIONS,
DATA PROCESSING SYSTEMS, EARTHQUAKES,
MICROSEISMS, SEISMOMETERS, EXPLOSIONS, SUBJECT
INDEXING (U)
IDENTIFIERS: VELA-UNIFORM (U)

THE BIBLIOGRAPHY, CONTAINING APPROXIMATELY 450
ENTRIES, LISTS VELA UNIFORM REPORTS PUBLISHED IN
OPEN LITERATURE. THE ENTRIES ARE GROUPED IN
SUBJECT CATEGORIES ARRANGED ALPHABETICALLY BY AUTHOR.
(AUTHOR) (U)

ELECTRONICS AND ELECTRICAL ENGINEERING

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-404 086

MITRE CORP BEDFORD MASS

PROGRAMMED INSTRUCTION. A SELECTED

BIBLIOGRAPHY,

(U)

APR 63 111P

MORRILL, C.S.; HALPERT, D.T.;

PILSUCK, S.H.;

REPT. NO. SR69 1

CONTRACT: AF33 600 39852

PROJ: 702

MONITOR: ESC TOR62 225

UNCLASSIFIED REPORT

DESCRIPTORS: •EDUCATION, •PROGRAMMING COM
PUTERS, •BIBLIOGRAPHIES, AUTOMATION, TRAINING
DEVICES, DOCUMENTATION, TEACHING MACHINES,
READING, INSTRUCTORS.

(U)

BIBLIOGRAPHY OF REFERENCES ON PROGRAMMED INSTRUCTION.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000250

AD-404 724

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
OUTLINE AND BIBLIOGRAPHY FOR THE 4-WEEK Q-7
CODING COURSE,

(U)

MAR 62 10P GILINSKY,R.J.;LEVY,K.R.;

REILLY,D.E.;

REPT. NO. TM1118 002 00

UNCLASSIFIED REPORT

DESCRIPTORS: •BIBLIOGRAPHIES, •PROGRAMMING
(COMPUTERS).

(U)

IDENTIFIERS: AN/FSQ-7.8.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-404 933

JOINT PUBLICATIONS RESEARCH SERVICE WASHINGTON D C
ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND
TECHNICAL JOURNALS NO. 134 (ELECTRONICS,
ENGINEERING, AND SPACE RESEARCH SERIES).

(U)

APR 63 26P

REPT. NO. 18728

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: CONSISTS OF ABSTRACTS OF ARTICLES FROM
THE SCIENTIFIC AND TECHNICAL JOURNALS OF EAST GERMANY,
HUNGARY, AND POLAND. ALSO FROM OTS FOR \$6.75 AS
REPT. 63-21587.

DESCRIPTORS: *ABSTRACTS, *EAST GERMANY,
*HUNGARY, *POLAND, *ELECTRONICS, *ENGINEERING,
ACOUSTICS, WAVEGUIDES, DOPPLER RADAR, BIO
GRAPHIES, AUTOMATION, COMPUTERS, VOLTAGE
REGULATORS, MAGNETIC AMPLIFIERS, MAGNETIC
DRIVES, LIQUID LEVEL GAGES, ELECTRONIC SWITCHES,
FLAMES, CONTROL, AMPLIFIERS, ELECTRIC MOTORS,
FLOWMETERS, CONTROL SYSTEMS, TIMING DEVICES,
MAGNETIC RECORDING SYSTEMS, HYDRAULIC SYSTEMS,
RADIATION MEASUREMENT SYSTEMS, TEXTILE INDUS
TRY, THERMOMETERS, PHYSICS, OPTICS, INDUSTRIAL
PRODUCTION, STANDARDIZATION, OPTICAL GLASS,
ELASTICITY, POWER SUPPLIES, STRESSES, CONICAL
BODIES, PRESSURE, WAVE WAVES, *MECHANICS.

(U)

ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND TECHNICAL
JOURNALS ON ELECTRONICS, ENGINEERING, AND SPACE RESEARCH.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-405 654

JOINT PUBLICATIONS RESEARCH SERVICE WASHINGTON D C
ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND
TECHNICAL JOURNALS NO. 155 (ELECTRONICS,
ENGINEERING, AND SPACE RESEARCH SERIES).

(U)

APR 63 JP

REPT. NO. 19012

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ABSTRACT TRANS. OF TELEKOMUNIKACIJE
(YUGOSLAVIA) 1963, V. 12, NO. 1, PP. 1-26. ALSO FROM
OTS FOR \$50 AS REPT. 63-21731.

DESCRIPTORS: •ABSTRACTS, BIBLIOGRAPHIES,
•ELECTRONICS, •ENGINEERING, SPACE FLIGHT,
•COMMUNICATION SYSTEMS, •TELEPHONE COMMUNI
CATION SATELLITES (ACTIVE), INTERMEDIATE
FREQUENCY AMPLIFIERS, ELECTRIC CABLES, DIGITAL
COMPUTERS.

(U)

ABSTRACT FROM EAST EUROPEAN SCIENTIFIC AND TECHNICAL
JOURNALS ON ELECTRONICS, ENGINEERING, AND SPACE FLIGHT.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-407 675

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

ASYNCHRONOUS ACTIONS. ANNOTATED BIBLIOGRAPHY. (U)

DESCRIPTIVE NOTE: REPORT FOR JAN 59-DEC 62.

JUN 63 10P

REPT. NO. 863 84

TASK: 15

UNCLASSIFIED REPORT

DESCRIPTORS: •BIBLIOGRAPHIES, •OSCILLATORS,
SYNCHRONIZING (ELECTRONICS), NOISE
(RADIO), HARMONIC OSCILLATORS, EQUATIONS,
THEORY. (U)

IDENTIFIERS: USSR. (U)

ANNOTATED BIBLIOGRAPHY OF RUSSIAN ARTICLES ON SELF-
OSCILLATORS.

UNCLASSIFIED

DIC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-907 945

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
MEDICAL DIAGNOSIS WITH ELECTRONIC COMPUTERS: AN
ANNOTATED BIBLIOGRAPHY.

APR 63 36P GRAZIANO, COMP. BY EUGENE L.; (U)

REPT. NO. SB63 9; 6 90 63 9

UNCLASSIFIED REPORT

DESCRIPTORS: (•DIAGNOSIS, COMPUTERS), (•COM
PUTERS, DIAGNOSIS), (•BIBLIOGRAPHIES, DIAGNO
SIS), ABSTRACTS, PROGRAMMING LANGUAGES, ASTRO
NAUTS, SELECTION, AUTOMATIC, HEART, DATA PROC
ESSING SYSTEMS, DIGITAL COMPUTERS, ELECTRO
CARDIOGRAPHY, ELECTROENCEPHALOGRAPHY, COMPUTER
LOGIC, MATHEMATICAL MODELS, PHYSIOLOGY, PROB
ABILITY, STATISTICAL ANALYSIS, DATA STORAGE
SYSTEMS, INFORMATION RETRIEVAL.

(U)

IDENTIFIERS: 1963, USSR.

(U)

THIS BIBLHY CONSISTS OF 125 REFERENCES TO SOURCES
ON MEDICAL DIAGNOSIS WITH ELECTRONIC COM PUTERS, AND
SELECTED RELATED MATERIALS. REALLY DEFINITIVE
EXPERIMENTS HAVE NOT BEEN PERFORMED IN THIS FIELD,
BUT A LARGE NUMBER OF PILOT STUDIES HAVE GENERALLY
LED TO THE BELIEF THAT AUTOMATIC DIAGNOSIS BY
COMPUTERS IS FEASIBLE, NECESSARY, AND SHOULD BE PART
OF A COMPREHENSIVE NATIONAL MEDICAL DATA CONTROL
SYSTEM. A FEW ITEMS WERE NOT AVAILABLE FOR
ANNOTATION. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000250

AD-910 672
JOINT PUBLICATIONS RESEARCH SERVICE WASHINGTON D C
ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND
TECHNICAL JOURNALS NO. 203 (ELECTRONICS, ENGINEER
ING, AND SPACE RESEARCH SERIES). (U)
JUN 63 25P
REPT. NO. 19547

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: CONSISTS OF ABSTRACTS OF ARTICLES FROM
SELECTED SCIENTIFIC AND TECHNICAL JOURNALS OF CZECHOSLO
VAKIA. ALSO FROM OTS FOR 3.75 AS REPT. 63-31006.

DESCRIPTORS: (*ABSTRACTS), BIBLIOGRAPHIES,
(*ELECTRONICS), (*ENGINEERING), SPACE FLIGHT,
CONTROL SYSTEMS, AMPLIFIERS, VISCOMETERS,
ANALOG COMPUTERS, HARMONIC ANALYZERS, DATA
PROCESSING SYSTEMS, FREQUENCY, TRANSISTORS,
POWER PLANTS (ESTABLISHMENTS), THERMOCOUPLES,
AUTOMATION, DIPOLE MOMENTS, ELECTRICAL IMPED
ANCE, ACOUSTICS, MEDICAL EQUIPMENT, TRIODES,
DIELES, PHOTOGRAPHIC EMULSIONS, IONOSPHERE,
RADIO WAVES, SEMICONDUCTORS, TEST METHODS,
GERMANIUM, CIRCUITS, COLOR TELEVISION, RECTI
FIERS, FREQUENCY ANALYZERS, MICROWAVES,
MAGNETRONS, DIELECTRICS, COMMUNICATION
SYSTEMS, (*CZECHOSLOVAKIA). (U)
IDENTIFIERS: JPRS. (U)

TRANSLATIONS OF ABSTRACTS OF ARTICLES FROM EAST
EUROPEAN SCIENTIFIC AND TECHNICAL JOURNALS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-410 702

JOINT PUBLICATIONS RESEARCH SERVICE WASHINGTON D C
ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND
TECHNICAL JOURNALS NO. 177 (ELECTRONICS, ENGI-
NEERING, AND SPACE RESEARCH SERIES).

(U)

MAY 63 7P

REPT. NO. 19215

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ABSTRACT TRANS. OF MERES ES
AUTOMATIKA (HUNGARY) 1963, V. 11, NO. 2, P. 33-64; NO.
3, P. 66-103. ALSO FROM OTS FOR \$3.50 AS REPT. 63
31826.

DESCRIPTIONS: (•ABSTRACTS), BIBLIOGRAPHIES,
(•ELECTRONICS), (•ENGINEERING), SPACE
FLIGHT, (•AUTOMATION), (•DISPLAY SYSTEMS),
(•RADIATION MEASUREMENT DEVICES),
(•TELEMETERING SYSTEMS), (•SWITCHING
CIRCUITS), INFRARED SPECTROPHOTOMETERS,
PROSTHETICS, MEMBRANES.

(U)

IDENTIFIERS: JPRS.

(U)

ABSTRACTS OF ARTICLES FROM TWO ISSUES OF A HUNGARIAN
SCIENTIFIC AND TECHNICAL JOURNAL.

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AC-412 175

JOINT PUBLICATIONS RESEARCH SERVICE WASHINGTON D C
ABSTRACTS FROM EAST EUROPEAN SCIENTIFIC AND
TECHNICAL JOURNALS NO. 197 (ELECTRONICS,
ENGINEERING, AND SPACE RESEARCH SERIES).

(U)

JUN 63 JGP

REPT. NO. 19579

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: CONSISTS OF ABSTRACTS OF ARTICLES FROM
SELECTED SCIENTIFIC AND TECHNICAL JOURNALS OF CZECHOSLO
VAKIA, EAST GERMANY, POLAND, AND RUMANIA. ALSO
FROM GTS FOR \$1.00 AS REPT. 63 21994.

DESCRIPTORS: (•ABSTRACTS), (•BIBLIOGRAPHIES),
(•ELECTRONICS), (•ENGINEERING), SPACE
FLIGHT, AUTOMATION, COMPUTERS, CONTROL
SYSTEMS, ELECTRONIC EQUIPMENT, SEMICONDUCTOR
DEVICES, COMMUNICATION SYSTEMS, MEASURING
DEVICES (ELECTRICAL AND ELECTRONIC),
MECHANICS, INDUSTRIAL PRODUCTION.

(U)

IDENTIFIERS: JPRS.

(U)

TRANSLATION OF FOREIGN RESEARCH: ABSTRACTS IN THE FIELDS
OF ELECTRONICS ENGINEERING, AND SPACE STUDIES.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-420 470

ARMY MISSILE COMMAND REDSTONE ARSENAL ALA
AN OPTIMIZED ULTRA LOW FREQUENCY SHIELDED-LOOP
ANTENNA, (U)

AUG 63 18P RUIE, HAROLD B. ;

PROJ: 1B2 22901A204

MONITOR: AMC RA RE TR63 7

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTES:

DESCRIPTORS: (• LOOP ANTENNAS, VERY LOW FREQUENCY),
(• VERY LOW FREQUENCY, LOOP ANTENNAS), RADIO RECEPTION,
BIBLIOGRAPHIES, ELECTROMAGNETIC SHIELDING, FREQUENCY,
STANDARDS (U)
IDENTIFIERS: 1963 (U)

THE DESIGN AND CONSTRUCTION ARE DESCRIBED OF AN
OPTIMIZED RECTANGULAR SHIELDED-LOOP ANTENNA EMPLOYED
AS THE RECEIVING ANTENNA FOR RECEPTION OF VLF (20
KC) STANDARD FREQUENCY BROADCASTS FROM THE
NATIONAL BUREAU OF STANDARDS, BOULDER,
COLORADO. THE RECEIVING SITE IS LOCATED AT
REDSTONE ARSENAL, ALABAMA. THIS DESIGN
AFFORDS AN APPROXIMATE 60 PER CENT INCREASE IN
EFFECTIVE HEIGHT WITH A 3-DB INCREASE IN TERMINAL
OUTPUT VOLTAGE OVER A CONVENTIONAL LOOP ANTENNA.
THE ANTENNA WILL TUNE FROM 14 TO 34 KC AND CAN BE
OPTIMIZED AT ANY FREQUENCY WITHIN THIS BAND WITH THE
PROPER VALUE OF GAP LOADING. A CURRENT
BIBLIOGRAPHY OF LOOP ANTENNA LITERATURE IS ALSO
AVAILABLE. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-423 950

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
RESEARCH ON AUTOMATIC COMPUTER ELECTRONICS. (U)

DESCRIPTIVE NOTE: INTERIM ENGINEERING REPT. NO. 4, 1
MAY-1 AUG 63.

AUG 63 IV

REPT. NO. 8 44 63 9

CONTRACT: AF33 657 8777

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•COMPUTERS, ELECTRONICS), (•ABSTRACTS,
COMPUTERS), (•RESEARCH PROGRAM ADMINISTRATION,
COMPUTERS), BIBLIOGRAPHIES, CIRCUITS, COMPUTER LOGIC,
COMPUTER STORAGE DEVICES, DESIGN, NEGATIVE RESISTANCE
CIRCUITS, THIN FILMS (STORAGE DEVICES), ALGEBRAS,
SEMICONDUCTING FILMS, SEMICONDUCTOR DEVICES,
SUPERCONDUCTORS (U)

IDENTIFIERS: THIN FILMS, RESIDUE ARITHMETIC,
THIN FILMS ELECTRONICS (U)

THE COMPUTER DEVICE AND CIRCUIT RESEARCH WORK
DESCRIBED IN THIS REPORT INCLUDES A PHENOMENA SURVEY
INTENDED TO DEVELOP POSSIBLE NEW DIRECTIONS FOR LATER
RESEARCH, AND ANALYTIC AND EXPERIMENTAL RESULTS OF
INVESTIGATIONS OF SUPER CONDUCTIVE TERNARY LOGIC AND
STORAGE DEVICES. THE FERRITE LOGIC STUDY DESCRIBES
A FLUX-STEERING METHOD AND RELEVANT EXPERIMENTAL
RESULTS. THE SECTION ON LOGICAL DESIGN RESEARCH
DESCRIBES EXTENSIONS AND IMPROVEMENTS OF EARLIER WORK
IN USING ORTHOGONAL EXPANSIONS FOR SYNTHESIZING
THRESHOLD FUNCTIONS, AN ITERATIVE METHOD FOR
SYNTHESIZING LINEARLY SEPARABLE FUNCTIONS, AND
FURTHER WORK IN MULTIVALUED LOGIC SYSTEMS. THE
LATTER TOPIC IS PRIMARILY CONCERNED WITH TERNARY
LOGIC, ALTHOUGH AN EXTENSION TO P-VALUED LOGIC IS
DESCRIBED. THE WORK ON SYSTEM DESIGN RESEARCH IS
REPRESENTED BY DEFINITIONS OF COMPUTER-AIDED DESIGN
PROCEDURES, AND A DELINEATION OF PROBLEM AREAS. AN
ANNOTATED BIBLIOGRAPHY ON RESIDUE ARITHMETIC IS ALSO
INCLUDED. (AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-424 354

RCA VICTOR CO LTD MONTREAL (QUEBEC)

A SURVEY OF GEODESIC LENS SCANNING ANTENNAS, (U)

OCT 63 92P ROBERTS, G. E. ; KAUFMAN, H. ;

REPT. NO. 6 501 2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•LENS ANTENNAS, ANTENNA
CONFIGURATIONS), (•ANTENNA CONFIGURATIONS, SCANNING),
DESIGN, BIBLIOGRAPHIES, PROGRAMMING (COMPUTERS),
ANTENNA RADIATION PATTERNS, REFLECTORS, FOCUSING,
DIELECTRICS, TABLES, MATHEMATICAL PREDICTION (U)
IDENTIFIERS: 1963, GEODESIC LENS ANTENNAS (U)

A SURVEY OF A CLASS OF SCANNING ANTENNAS OF THE
PARALLEL-PLATE, SURFACE-OF-REVOLUTION TYPE IS
PRESENTED. THIS TYPE OF ANTENNA IS CAPABLE OF
SCANNING THROUGH SECTORS OF WIDE ANGLES OR EVEN A
COMPLETE 360 DEGREES WITHOUT DETERIORATION IN
PERFORMANCE DUE TO SCANNING. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-425 439

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
COMPUTER APPLICATIONS IN MEDICINE AND THE BIOLOGICAL
SCIENCES BIBLIOGRAPHY - II, (U)

OCT 63 349 EMPEY, SALLY L. ;

REPT. NO. SP1025 001 00

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COMPUTERS, MEDICINE), (*MEDICINE,
COMPUTERS), (*BIBLIOGRAPHIES, COMPUTERS), BIOLOGY,
DIGITAL COMPUTERS, MEDICAL RESEARCH, DATA PROCESSING
SYSTEMS, AUTOMATION, PROGRAMMING (COMPUTERS) (U)
IDENTIFIERS: APPLICATIONS, 1963 (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-425 799

RCA LABS PRINCETON N J

COMPATIBLE ACTIVE THIN-FILM INTEGRATED
STRUCTURES. (U)

DESCRIPTIVE NOTE: INTERIM SCIENTIFIC REPT. NO. 1, 15
JUNE 19 63, OCT 63,

NOV 63 27P MUELLER, C. W. ;

CONTRACT: AF33 657 11398

PROJ: 4159

TASK: 45405

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT ON MOLECULAR ELECTRONICS.

DESCRIPTORS: (*SEMICONDUCTOR DEVICES, SILICON),
(*INTEGRATED CIRCUIT, FILMS), (*SILICON, CRYSTAL
GROWTH), (*REVAEWS, CRYSTAL GROWTH), EPITAXIAL GROWTH,
PYROLYSIS, EVAPORATION, BIBLIOGRAPHIES, THEORY,
TRANSISTORS (SEMICONDUCTOR), ELECTRON MICROSCOPY,
FLUID FLOW, VACUUM APPARATUS, HIGH-TEMPERATURE
RESEARCH, ELECTRON BEAMS, TANTALUM, ELECTRICAL
PROPERTIES, ELECTRON DIFFRACTION ANALYSIS, X-RAY
DIFFRACTION ANALYSIS, SILANES, ALUMINUM COMPOUNDS,
OXIDES, VAPOR PLATING, BORON COMPOUNDS, NITRIDES (U)
IDENTIFIERS: THIN FILMS, RHEOTAXIAL DEPOSITION,
BORON NITRIDE, ALUMINUM OXIDE, 1963, THIN FILMS
ELECTRONICS (U)

A LITERATURE SURVEY IS GIVEN COVERING WORK IN THE
FIELDS OF THEORY OF SILICON GROWTH, GROWTH OF SILICON
FROM THE VAPOR PHASE, EVAPORATION, AND THIN-FILM
SILICON DEVICES. THIS REPORT IS CONCERNED
ESSENTIALLY WITH THE FIRST STEPS IN THE DEVELOPMENT
OF A THIN-FILM INTEGRATED CIRCUIT, NAMELY THE
DEVELOPMENT OF THE SEMICONDUCTOR SUBSTRATE AND THE
ACTIVE DEVICE. TWO METHODS OF FORMING THE SUBSTRATE
ARE BEING INVESTIGATED: EVAPORATION AND PYROLYSIS.
THE EVAPORATION TECHNIQUE IS OF INTEREST BECAUSE IT
IS READILY INTEGRATED WITH OTHER PRODUCTION METHODS.
AFTER STUDYING SEVERAL METHODS OF EVAPORATING,
DIRECT ELECTRON-BEAM BOMBARDMENT OF SILICON WAS
ADOPTED. PRELIMINARY TESTS WERE MADE ON POLISHED
QUARTZ SUBSTRATES. BEST RESULTS WERE ACHIEVED AT
TEMPERATURES OF 1100 C FOR WHICH MOBILITIES OF 1 TO
5 CM/VOLT-SEC WERE MEASURED. A FLOW SYSTEM FOR THE
PYROLYSIS OF SILANE WAS SET UP ALONG WITH THE
DESIRABLE DOPING SUPPLIES AND TESTED BY GROWING
EPITAXIALLY ON SILICON. (AUTHOR) (U)

120

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000350

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DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-429 715

RAND CORP SANTA MONICA CALIF
DYNAMIC PROGRAMMING: A BIBLIOGRAPHY OF THEORY AND
APPLICATION. (U)
FEB 64 145P BELLMAN, RICHARD ;
KARUSH, REBECCA ;
REPT. NO. RM3951PR
CONTRACT: AF49 628 700

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (PROGRAMMING (COMPUTERS),
BIBLIOGRAPHIES), POLYNOMIALS, CURVE FITTING,
COMPUTERS, QUALITY CONTROL, OPTIMIZATION, CALCULUS OF
VARIATIONS, COMMUNICATIONS THEORY, CONTROL SYSTEMS,
GAME THEORY, SCHEDULING, RELIABILITY, SEQUENTIAL
ANALYSIS, STOCHASTIC PROCESSES, TRAJECTORIES, SEARCH
THEORY, COMPUTER LOGIC, CYBERNETICS, THRUST, LEAST
SQUARES METHOD, NONLINEAR SYSTEMS, STATISTICAL
ANALYSIS, INEQUALITIES, STATISTICAL PROCESSES, MATRIX
ALGEBRA, PROBABILITY, OPERATIONS RESEARCH, LEARNING,
TEACHING MACHINES, ARTIFICIAL INTELLIGENCE, LINEAR
PROGRAMMING, QUEUEING THEORY, FUNCTIONAL ANALYSIS,
GROUPS (MATHEMATICS), ECONOMICS (U)
IDENTIFIERS: 1964, DYNAMIC PROGRAMMING, AUTOMATA,
CLOSED-LOOP SYSTEMS, INVENTORY, INVARIANT IMBEDDING (U)

DYNAMIC PROGRAMMING MAY BE DESCRIBED AS A
MATHEMATICAL THEORY OF MULTISTAGE DECISION PROCESSES.
THE METHOD PRESENTED BY THIS THEORY PROVIDES A
VALUABLE TOOL FOR THE INVESTIGATION OF MANY
CHALLENGING PROBLEMS IN SUCH DIVERSE FIELDS AS
ECONOMICS, ENGINEERING, SYSTEMS ANALYSIS, AND
BIOMEDICAL RESEARCH. A BIBLIOGRAPHY OF PUBLICATIONS
DEVOTED TO THE THEORY AND APPLICATION OF DYNAMIC
PROGRAMMING SHOULD PROVE HELPFUL IN ALL PHASES OF
PROBLEM SOLVING--RECOGNITION, FORMULATION, ANALYSIS,
COMPUTATION, AND REFORMULATION--FOR THESE DIFFERENT
SCIENTIFIC AREAS. SOME OF THE PUBLICATIONS CITED IN
THIS BIBLIOGRAPHY ARE NOT DIRECTLY CONCERNED WITH
DYNAMIC PROGRAMMING, BUT THEY WERE NEVERTHELESS
INCLUDED BECAUSE THEY CONTAIN ALLIED CONCEPTS AND, IN
SOME CASES, VALUABLE BIBLIOGRAPHIES. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-431 731

SPEERY RAND CORP CLEARWATER FLA SPERRY MICROWAVE
ELECTRONICS DIV
CIRCULAR WAVEGUIDE DUPLEXERS AND CIRCULAR WAVEGUIDE
MICROWAVE TRANSMISSION LINE, (U)

JAN 64 115P HEITHAUS, W. C. ;

CONTRACT: AF33 616 6517

PROJ: 4156

TASK: 415602

MONITOR: RTD TDR 63 4141

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (WAVEGUIDES, CYLINDRICAL BODIES), RADAR
DUPLEXERS, THEORY, BIBLIOGRAPHIES, ATTENUATORS, PHASE
SHIFTERS, X-BAND, SUPER HIGH FREQUENCY, WAVEGUIDE
COUPLERS, PROPAGATION, FERRITES, POLARIZATION,
DIELECTRICS, WAVEGUIDE CIRCULATORS, RADIOFREQUENCY
POWER, ABSORPTION, STANDING WAVE RATIOS, V-BAND,
BANDWIDTH, ELECTRIC CURRENTS, CONFIGURATION, K-
BAND (U)

IDENTIFIERS: 1964, CIRCULAR WAVEGUIDES (U)

A SURVEY IS PRESENTED OF THE CURRENT STATE OF THE
ART IN CIRCULAR WAVEGUIDE THEORY AND TECHNIQUE.
RESULTS OF PRIOR WORK WHICH WAS STUDIED ARE
CORRELATED AND PRESENTED ALONG WITH A BIBLIOGRAPHY OF
SOURCES CONSULTED IN THE SURVEY. THIS REPORT
DESCRIBES THE DEVELOPMENT OF DUPLEXERS, LOAD-TOLINE
ISOLATORS, ADJUSTABLE ATTENUATORS, AND CONTROLLABLE
PHASE SHIFTERS TO TE₀₁ MODE CIRCULAR WAVEGUIDE
SYSTEMS. DEVELOPMENT PROBLEMS ARE DISCUSSED AND
DESIGNS SELECTED IN OVERCOMING THESE PROBLEMS.
THESE UNITS WERE DEVELOPED FOR EACH OF TWO 6X
FREQUENCY BANDS CENTERED AT 9.375 GC (X BAND)
AND 35 GC (K BAND). THE K-BAND DUPLEXERS
AND ISOLATORS ARE DESIGNED AROUND A ZERO-DP COUPLER
PROPAGATING THE TE₀₁ MODE IN A 0.752 INCH ID
PRIMARY CIRCULAR WAVEGUIDE, AND TE₀₁ MODE IN THE
SECONDARY WR_{2A} WAVEGUIDE. FERRITES MOUNTED IN
THE SECONDARY GUIDE MAKE COUPLING NONRECIPROCAL.
THE X- AND K-BAND PHASE SHIFTERS, THE X-BAND
ISOLATORS, AND THE X-BAND ADJUSTABLE ATTENUATORS
ARE BUILT IN CRUCIFORM WAVEGUIDE WITH TRANSITIONS
FROM 0.725 INCH ID OR 2.710 INCH ID CIRCULAR
GUIDE AT THE INPUT AND OUTPUT. FERRITES MOUNTED IN
THE CRUCIFORM WAVEGUIDE ENCOUNTER A CIRCULARLY
POLARIZED MICROWAVE H-FIELD PERMITTING THE FERRITE
TO PROVIDE PHASE SHIFT OR NONRECIPROCAL ATTENUATION.
(AUTHOR)

122

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-491 821

SYSTEMS RESEARCH LABS INC DAYTON OHIO
INVESTIGATION OF SECONDARY PHENOMENA FOR USE IN
CHECKOUT, (U)

JAN 64 126P HWANG, GILBERT S. H. ;
REPT. NO. 491 TOR1
CONTRACT: AF37 657 9912
PROJ: 8119
TASK: 811925
MONITOR: APL TOR64 4

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ELECTRONIC EQUIPMENT, TEST METHODS),
(CIRCUITS, TEST METHODS), X-RAY ABSORPTION ANALYSIS,
INFRARED RADIATION, MAGNETIC FIELDS, ELECTRIC FIELDS,
THERMISTORS, FLUORESCENCE, RADIOFREQUENCY
SPECTROSCOPY, EMISSIVITY, INFRARED DETECTORS,
INFRARED PHENOMENA, MAGNETIC PROPERTIES, TEST
EQUIPMENT, TEST EQUIPMENT (ELECTRONICS), THERMIONIC
EMISSION, THERMAL RADIATION, ELECTROSTATIC FIELDS,
BIBLIOGRAPHIES, PHYSICAL PROPERTIES (U)
IDENTIFIERS: 1964 (U)

THIS REPORT DISCUSSES THE EXPERIMENTAL WORK,
RESULTS, AND CONCLUSIONS OF THE INVESTIGATION OF
SECONDARY PHENOMENA FOR USE IN CHECKOUT OF ELECTRONIC
COMPONENTS AND CIRCUITRY. IT CONSISTS OF A
LITERATURE SURVEY OF THE VARIOUS SECONDARY PHENOMENA
GENERATED BY OPERATING ELECTRONIC CIRCUITS AND THE
METHODS OF SENSING THEM WITHOUT DIRECT ELECTRICAL
CONTACT WITH THESE CIRCUITS. THE INVESTIGATION OF
PHYSICAL LAWS AND PHENOMENA, FROM WHICH SUITABLE
SUBJECTS FOR FURTHER CONSIDERATION WERE SELECTED, WAS
ALSO PART OF THIS PROGRAM. THE LITERATURE SURVEY
WAS OF LITTLE ASSISTANCE IN THE PROGRAM AS ONLY A
LIMITED AMOUNT OF WORK HAD BEEN PREVIOUSLY ATTEMPTED
ON THE EFFECTS OF SECONDARY PHENOMENA. DIFFERENT
DETECTION TECHNIQUES OF VARIOUS SECONDARY PHENOMENA
WERE TESTED EXPERIMENTALLY: THESE WERE X-RAY
ABSORPTION, INFRARED USING A THERMISTOR, INFRARED
USING FLUORESCENCE, RADIO-FREQUENCY EMISSION,
MAGNETIC FIELDS, AND ELECTRIC FIELDS. AT PRESENT
THE X-RAY ABSORPTION, INFRARED AND RADIO FREQUENCY
EMISSION SHOW THE MOST PROMISE FOR FUTURE
CONSIDERATION, ALTHOUGH THESE SYSTEMS WILL REQUIRE
ADDITIONAL TIME AND EFFORT TO DEVELOP THE TECHNIQUES
AND NECESSARY INSTRUMENTATION. (AUTHOR) (U)

123

UNCLASSIFIED

000990

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-433 734

ARMY ELECTRONICS LABS FORT MONMOUTH N J
PUBLICATIONS PRESENTATIONS AND PATENTS, 1963. (U)
JAN 64 43P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, ELECTRONICS),
(*ELECTRONICS, BIBLIOGRAPHIES), PATENTS, REPORTS, (U)
SYMPOSIA, ELECTRONIC EQUIPMENT (U)
IDENTIFIERS: 1963

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-439 443

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
THE DESIGN AND ANALYSIS OF ELECTRICAL ELECTRONIC
SYSTEMS BY MEANS OF DIGITAL COMPUTERS: AN ANNOTATED
BIBLIOGRAPHY. (U)

SEP 63 34P PIERCE, CHARLIE M. ;
REPT. NO. 2 60 63 2 15863 63
CONTRACT: N0067 0050C

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ELECTRICAL NETWORKS, SIMULATION),
(ELECTRONICS, SIMULATION), (BIBLIOGRAPHIES,
ELECTRONICS), (CIRCUITS, DESIGN), NETWORKS, DIGITAL
COMPUTERS, ELECTRICAL EQUIPMENT, ELECTRONIC EQUIPMENT,
DIGITAL SYSTEMS, ANALOG SYSTEMS, ANALOG COMPUTERS,
POWER EQUIPMENT (U)

COMPUTERIZED METHODS OF DESIGNING AND ANALYZING
ELECTRICAL AND ELECTRONICS SYSTEMS ARE BEING USED
WITH INCREASING FREQUENCY BECAUSE OF THE DEMAND FOR
MORE COMPLEX AND MORE EFFICIENT SYSTEMS. THIS
PUBLICATION CONSISTS OF 63 REFERENCES DEALING WITH
THE APPLICATION OF DIGITAL COMPUTERS IN THIS FIELD.
MOST OF THE REFERENCES WERE PUBLISHED BETWEEN
JANUARY 1958 AND JUNE 1963. THE REFERENCES ARE
ALPHABETICALLY ARRANGED ACCORDING TO THE FIRST
AUTHOR. INDICES ARE INCLUDED FOR CORPORATE AUTHOR,
PERSONAL AUTHOR, AND SUBJECT. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-439 442

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF

PCH TELEMETRY: AN ANNOTATED BIBLIOGRAPHY, (U)

JAN 64 45P STROMER, PETER R. ;

REPT. NO. SP64 6 7 60 64 9

CONTRACT: N0W43 0090C

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•TELEMETER SYSTEMS, BIBLIOGRAPHIES),

(•BIBLIOGRAPHIES, TELEMETER SYSTEMS), PULSE

MODULATION, CODING, GUIDED MISSILES, SPACECRAFT,

SATELLITES (ARTIFICIAL), DIGITAL SYSTEMS,

METEOROLOGICAL SATELLITES, MULTIPLEX, COMMUNICATION

SATELLITES (ACTIVE), COMMUNICATION SATELLITES

(PASSIVE), DATA PROCESSING SYSTEMS, SIGNAL-TO-NOISE

RATIO, PROGRAMMING (COMPUTERS), SINGLE SIDEBAND

COMMUNICATION SYSTEMS, DATA TRANSMISSION SYSTEMS,

ANALOG-TO-DIGITAL CONVERTERS, MANNED SPACECRAFT (U)

IDENTIFIERS: PULSE-CODE MODULATION, DIGITAL

COMMUNICATION SYSTEMS, NIMBUS, ORTHOMUX, TELSTAR,

DELTA MODULATION, GEMINI, TITAN (U)

(THIS PAGE IS BLANK)

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DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000950

AD-462 666

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF

CIRCUIT ANALYSIS AND PARAMETER STUDIES.

(U)

DESCRIPTIVE NOTE: SPECIAL BIBLIOGRAPHY,

DEC 59 46P CARROLL, K. D. ;

REPT. NO. SB-59-49

UNCLASSIFIED REPORT

AVAILABILITY: MICROFILM ONLY AFTER ORIGINAL COPIES

EXHAUSTED.

SUPPLEMENTARY NOTE:

DESCRIPTORS: (CIRCUITS, BIBLIOGRAPHIES),

ABSTRACTING, ANALYSIS, DESIGN, THEORY, ELECTROMAGNETIC

WAVES, WAVEGUIDES

(U)

CIRCUIT ANALYSIS AND PARAMETER STUDIES.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-464 777

REDSTONE SCIENTIFIC INFORMATION CENTER REDSTONE ARSENAL

ALA

SILICON CARBIDE FOR SEMICONDUCTORS, (U)

FEB 65 196P CARAS, GUS J. ;

REPT. NO. RSIC-281

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (SEMICONDUCTOR DEVICES, MATERIALS), REVIEWS, SILICON COMPOUNDS, CARBIDES, BIBLIOGRAPHIES, CRYSTAL GROWTH, SUBLIMATION, EPITAXIAL GROWTH, TRANSISTORS, RECTIFIERS, REFRACTIVE INDEX, LUMINESCENCE, SINGLE CRYSTALS, GRAPHITE, IMPURITIES, ETCHED CRYSTALS, FURNACES, OPTICAL ANALYSIS (U)

IDENTIFIERS: PHOTOLUMINESCENCE (U)

THIS STATE-OF-THE-ART SURVEY ON SILICON CARBIDE FOR SEMICONDUCTORS INCLUDES A BIBLIOGRAPHY OF THE MOST IMPORTANT REFERENCES PUBLISHED AS OF THE END OF 1964. THE VARIOUS METHODS USED FOR GROWING SILICON CARBIDE SINGLE CRYSTALS ARE REVIEWED, AS WELL AS THEIR PROPERTIES AND DEVICES FABRICATED FROM THEM. THE FACT THAT THE STATE-OF-THE-ART OF SILICON CARBIDE SEMICONDUCTORS IS NOT FURTHER ADVANCED MAY BE ATTRIBUTED TO THE DIFFICULTIES OF GROWING SINGLE CRYSTALS OF SUFFICIENT SIZE AND PURITY FOR SEMICONDUCTOR APPLICATIONS. OF THE VARIOUS METHODS OF GROWING SILICON CARBIDE, GROWTH BY SUBLIMATION APPEARS TO BE THE MOST SUCCESSFUL METHOD. THERE IS CONSIDERABLE VARIATION IN THE PROPERTIES OF SILICON CARBIDE AS REPORTED IN THE LITERATURE, MAINLY BECAUSE MOST MEASUREMENTS WERE CONDUCTED ON CRYSTALS WITH VARYING AMOUNTS AND TYPES OF IMPURITIES. IN THE AREA OF DEVICES, RECTIFIERS CAPABLE OF 500 C OPERATION AND UNIPOLAR TRANSISTORS EXHIBITING POWER GAIN AT TEMPERATURES GREATER THAN 500 C HAVE BEEN FABRICATED. OTHER DEVICES WHICH HAVE RECEIVED ATTENTION INCLUDE DIODES, PHOTOELECTRIC AND ELECTROLUMINESCENT DEVICES, AND ELECTRON EMISSION COMPONENTS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-466 287

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

COMPUTER TECHNOLOGY. (U)

DESCRIPTIVE NOTE: COMPILATION OF ABSTRACTS ON SURVEYS OF
SOVIETBLOC SCIENTIFIC AND TECHNICAL LITERATURE.

JUL 65 44P

REPT. NO. ATD-P-65-50

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (COMPUTERS, USSR), CIRCUITS,
DESIGN, BIBLIOGRAPHIES, SCIENTIFIC RESEARCH,
ANALOG COMPUTERS, DIGITAL COMPUTERS (U)

THIS REPORT HAS BEEN PREPARED IN RESPONSE TO ATD
WORK ASSIGNMENT NO. 81 AND IS THE FIRST IN A
SERIES REVIEWING SOVIET DEVELOPMENTS IN COMPUTER
TECHNOLOGY. ABSTRACTS CONTAINED IN THE REPORT WERE
SELECTED FROM SOVIET OPEN-SOURCE LITERATURE
PUBLISHED DURING THE LATTER PART OF 1964 AND
JANUARY OF 1965 AND AVAILABLE AT THE AEROSPACE
INFORMATION DIVISION AND THE LIBRARY OF
CONGRESS. INFORMATION NOT DIRECTLY RELATED TO
THE ASSIGNED SUBJECT HAS BEEN INCLUDED BECAUSE OF ITS
BROAD IMPLICATIONS FOR STUDY IN THIS FIELD. THE 42
ABSTRACTS ARE ARRANGED ALPHABETICALLY BY AUTHOR
WITHIN EACH OF THE FOLLOWING CATEGORIES: COMPONENTS,
DESIGN, APPLICATIONS, AND ASSOCIATED SYSTEMS. THE
APPENDIX CONTAINS 12 BRIEF ABSTRACTS FROM A
SEPTEMBER, 1964, ISSUE OF THE SOVIET PATENT
JOURNAL BYULLETEN' IZOHRETIENIY I TOVARNYKH ZNAKOV
(NO. 19). ADDITIONAL INFORMATION FROM OTHER
1964 AND 1965 ISSUES OF THIS JOURNAL WILL BE APPENDED
TO SUBSEQUENT REPORTS. A BIBLIOGRAPHY IS PRESENTED
AT THE END OF THE REPORT. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-600 530

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

PACKAGING OF ELECTRONIC EQUIPMENT FOR TRANSPORTATION
IN VIBRATION ENVIRONMENTS WITH EMPHASIS ON SEAGOING
VEHICLES. (U)

DEC 63 21P JANECKA, HANSI

REPT. NO. S63 048 , PDL50066

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*ELECTRONIC EQUIPMENT, PACKAGING),
(*CONTAINERS, DEGRADATION), STORAGE, AGING
(MATERIALS), TRANSPORTATION, VIBRATION, SHOCK
(MECHANICS), SHIPS (NONMILITARY), BIBLIOGRAPHIES (U)

A BIBLIOGRAPHY OF PACKAGING FOR ELECTRONIC AND
OTHER EQUIPMENT. (U)

UNCLASSIFIED

PDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-601 298

PREVENTION OF DEGRADATION CENTER NAS-NRC WASHINGTON D
C
EFFECTS OF VAN ALLEN RADIATION BELTS ON ELECTRONIC
MATERIALS. (U)

DESCRIPTIVE NOTE: AN INTRODUCTORY BIBLIOGRAPHY,
JAN 63 7P LEE, RICHARD W. H. ;
REPT. NO. PDC-563-003, PDL-46195

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, ELECTRONIC EQUIPMENT),
(*ELECTRONIC EQUIPMENT, RADIATION EFFECTS),
(*RADIATION EFFECTS, BIBLIOGRAPHIES), VAN ALLEN
RADIATION BELT, SPACECRAFT (U)

THIS REPORT IS AN ANNOTATED BIBLIOGRAPHY LISTING 32
ITEMS ON THE EFFECTS SPACE RADIATION HAS ON
ELECTRONIC MATERIALS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-601 001

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

EFFECTS OF FUNGI ON ELECTRIC AND ELECTRONIC
EQUIPMENT. (U)

DESCRIPTIVE NOTE: AN INTRODUCTORY BIBLIOGRAPHY.

JAN 63 11P LEE, RICHARD W. H. ;

REPT. NO. S63 001 , PDL 46027

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, FUNGUS DETERIORATION),

(*ELECTRICAL EQUIPMENT, FUNGUS DETERIORATION),

(*ELECTRONIC EQUIPMENT, FUNGUS DETERIORATION),

MECHANICAL PROPERTIES, ELECTRIC INSULATION, TROPICAL

DETERIORATION, PLASTICS, ORGANIC COMPOUNDS, MOISTURE,

ORDNANCE, WIRE, RADIO EQUIPMENT, RADAR EQUIPMENT,

MICROORGANISMS (U)

THIS REPORT IS AN INTRODUCTORY BIBLIOGRAPHY OF 86

ITEMS ON THE EFFECTS OF FUNGI ON ELECTRIC AND

ELECTRONIC EQUIPMENT. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-601 711

PREVENTION OF DETRIORATION CENTER NAS-NRC WASHINGTON D

C

EFFECTS OF STORAGE ON ELECTRONIC EQUIPMENT AND
COMPONENTS, A PRELIMINARY LITERATURE SURVEY. (U)

DEC 62 12P LEE, RICHARD W. H. ;

REPT. NO. 562 053 .PDL 45762

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, ELECTRONIC EQUIPMENT),

(ELECTRONIC EQUIPMENT, BIBLIOGRAPHIES), REVIEWS,

ALLOYS, STORAGE, MATERIALS, TROPICAL DETERIORATION,

CORROSION INHIBITION, ELECTRON TUBES, ELECTRIC

INSULATION (U)

THE BIBLIOGRAPHY CONTAINS 72 REFERENCES ON THE

EFFECTS OF STORAGE ON ELECTRONIC EQUIPMENT AND

COMPONENTS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-601 501

HARRY DIAMOND LABS WASHINGTON D C
PROCEEDINGS OF THE FLUID AMPLIFICATION SYMPOSIUM.
VOLUME III. SPONSORED BY THE HARRY DIAMOND
LABORATORIES, 26-28 MAY 1964.
MAY 64 212P

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•AMPLIFIERS, SYMPOSIA), (•HYDRAULIC
SYSTEMS, SYMPOSIA), (•LIQUID JETS, AMPLIFIERS),
OSCILLATORS, PNEUMATIC SYSTEMS, NOZZLES, GAIN,
TURBINES, BIBLIOGRAPHIES

(U)

IDENTIFIERS: FLUID AMPLIFIERS

(U)

CONTENTS: TRANSIENT BEHAVIOR OF BISTABLE FLUID
ELEMENTS; A SONIC OSCILLATOR; INTERCONNECTION OF
FLUID AMPLIFICATION ELEMENTS; STAGING OF CLOSED
PROPORTIONAL FLUID AMPLIFIERS; ANGULAR VELOCITY
REGULATION WITH A FLUID INTERACTION SYSTEM; FLUID
AMPLIFICATION TECHNOLOGY; A BIBLIOGRAPHY OF DIRECT
CONTRIBUTIONS.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-601 986

ILLINOIS UNIV URBANA ELECTRICAL ENGINEERING RESEARCH
LAB

RESEARCH STUDIES ON PROBLEMS RELATED TO
ANTENNAS.

DESCRIPTIVE NOTE: QUARTERLY REPT. NO. 6, 1 DEC 63-29
FFB 64. (U)

APR 64 SIP RIPPIN, JAMES I
CONTRACT: AF33 657 10474
PROJ: 760 6278 ,760 4028
TASK: 6278 01 ,4028 24

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: ANTENNAS, RESEARCH PROGRAM
ADMINISTRATION, LOG PERIODIC ANTENNAS, DIPOLE
ANTENNAS, COUPLED ANTENNAS, HELICAL ANTENNAS,
OMNIDIRECTIONAL ANTENNAS, SLOT ANTENNAS, SPIRAL
ANTENNAS, ANTENNA CONFIGURATIONS, ANTENNA FEEDS,
BIBLIOGRAPHIES, DIELECTRICS, WAVEGUIDES, SIGNAL-
TO-NOISE RATIOS, ELECTRICAL IMPEDANCE, ANTENNA
RADIATION PATTERN, MILLIMETER WAVES, CONICAL ANTENNAS,
MATHEMATICAL ANALYSIS, DESIGN, MODELS (SIMULATIONS) (U)

AN INVESTIGATION WAS MADE INTO RADIATION PATTERNS
FROM PERIODIC STRUCTURES. LOG-PERIODIC CAVITY-
PACKED SLOT ANTENNAS WHICH PRODUCE VERTICALLY
POLARIZED RADIATION WERE STUDIED, AND FURTHER
INVESTIGATION ON THE CONSTRUCTION OF A FEED SYSTEM TO
ELIMINATE THE NEED FOR A GROUND SCREEN WAS
CONSIDERED. PATTERN MEASUREMENTS ON BOTH UNIFORM
AND LOG-PERIODIC ZIGZAG ANTENNAS WERE CALCULATED, AND
THE CHARACTERISTICS OF BOTH PRESENT FORMS AND NEW
VERSIONS OF THE CONICAL LOGARITHMIC SPIRAL ANTENNA
WERE DISCUSSED. STUDIES WERE MADE OF ANTENNAS FOR
AIRBORNE DIRECTION FINDING, THE FEASIBILITY OF
UTILIZATION VARACTOR DIODES IN A BACKFIRE ANTENNA,
AND WAVE PROPAGATION ALONG HELICAL CONDUCTORS AS WELL
AS OF PERIODIC STRUCTURES OF WIDEBAND APPLICATIONS
AND RADIATION FROM CIRCULAR WAVEGUIDES. RESEARCH
WAS ALSO DONE ON THE DEVELOPMENT OF NEW TYPES OF LOG-
PERIODIC ANTENNAS, A HIGH RESOLUTION MILLIMETER
ANTENNA, AND OMNIDIRECTIONAL AND STEERABLE BEAM
ANTENNAS WHICH CAN BE OPERATED AT MILLIMETER
WAVELENGTHS. A BIBLIOGRAPHY CONTAINING 104 ENTRIES
IS ALSO INCLUDED IN THE REPORT. (U)

136

UNCLASSIFIED

000390

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-611 914

ARMY MEDICAL RESEARCH AND NUTRITION LAB DENVER COLO
A SIMPLE AND VERSATILE PUNCH CARD SYSTEM FOR
BIBLIOGRAPHIC USE. (U)

DEC 63 IUP LEVELLE, GILBERT A. ;
SAUBERLICH, MOYENDE E. ; GOAD, WAYNE C. ;
TASK: 16
MONITOR: AMKNL 281

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, INFORMATION
RETRIEVAL), (PUNCHED CARDS, BIBLIOGRAPHIES), INDEXES,
SUBJECT INDEXING, CLASSIFICATION, CODING (U)

A PUNCH CARD SYSTEM IS DESCRIBED WHICH SHOULD FIND
APPLICATION FOR GENERAL OR SPECIFIC BIBLIOGRAPHIC
USE. THE SYSTEM ENABLES THE INDIVIDUAL TO FILE A
REFERENCE BY SUBJECT, AUTHOR AND YEAR. A REFERENCE
CAN BE CROSS-INDEXED IN AS MANY AS FOUR SUBJECT
CATEGORIES AND UP TO 99,999 SUBJECTS CAN BE INDEXED.
THE CARDS CAN BE FILED RANDOMLY AND, CONSEQUENTLY,
THE SYSTEM CAN BE MAINTAINED WITH A MINIMUM OF LABOR.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-606 235

LOCKHEED MISSILES AND SPACE CO SUNNYVALL CALIF
TANTALUM CAPACITORS. A PRELIMINARY SURVEY OF THE
LITERATURE.

(U)

SEP 60 IIP PEARCY, MAUREEN A. ;
REPT. NO. SB-60-37

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: LEGIBILITY OF THIS DOCUMENT IS IN PART
UNSATISFACTORY. REPRODUCTION HAS BEEN MADE FROM BEST
AVAILABLE COPY.

DESCRIPTORS: (*TANTALUM CAPACITORS, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, TANTALUM CAPACITORS), PRODUCTION,
ELECTROLYTIC CAPACITORS, MICROMINIATURIZATION
(ELECTRONICS), DIELECTRIC FILMS, METAL FILMS,
RELIABILITY (ELECTRONICS)

(U)

THIS BIBLIOGRAPHY DOES NOT COVER THE TECHNICAL
ASPECTS OF TANTALUM CAPACITORS. AS A PRELIMINARY
SEARCH, IT IS CONCERNED WITH RECENT DEVELOPMENTS IN
MANUFACTURING PROCESSES AND WITH THE CURRENT MARKET
POTENTIAL FOR TANTALUM CAPACITORS. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-609 027

STANFORD UNIV CALIF STANFORD ELECTRONICS LABS
BIBLIOGRAPHY OF TECHNICAL REPORTS ISSUED BY STANFORD
ELECTRONICS LABORATORIES DURING 1960. (U)
60 12P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: A PORTION OF THE ORIGINAL DOCUMENT
CONTAINS FINE DETAIL WHICH MAY MAKE READING OF PHOTOCOPY
DIFFICULT.

DESCRIPTORS: (*BIBLIOGRAPHIES, ELECTRONICS),
(*ELECTRONICS, BIBLIOGRAPHIES), ELECTRONICS
LABORATORIES, CONTROL SYSTEMS, CIRCUITS, COMMUNICATION
THEORY, MASERS, PARAMETRIC AMPLIFIERS, TRANSISTORS,
IONOSPHERIC DISTURBANCES, IONOSPHERIC PROPAGATION,
ANTENNAS, ELECTRONIC EQUIPMENT, PLASMA PHYSICS,
SUBJECT INDEXING (U)

CONTENTS: CONTROL SYSTEMS, INFORMATION AND
CIRCUIT THEORY; ELECTRON DEVICES AND DIRECTLY
ASSOCIATED CIRCUITS; MASERS AND PARAMETRIC
AMPLIFIERS; TRANSISTORS AND OTHER SOLID STATE
DEVICES; RADIO SCIENCE; IONOSPHERE STUDIES, AND
ANTENNAS; SYSTEMS TECHNIQUES; EQUIPMENTS AND
SUBCOMPONENTS; PLASMAS. (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-A19 173

STANFORD UNIV CALIF STANFORD ELECTRONICS LABS
BIBLIOGRAPHY OF TECHNICAL REPORTS ISSUED BY STANFORD
ELECTRONICS LABORATORIES DURING 1959. (U)

60 11P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, ELECTRONICS),
(ELECTRONICS, BIBLIOGRAPHIES), CONTROL SYSTEMS,
COMMUNICATION THEORY, CIRCUITS, MASERS, AMPLIFIERS,
TRANSISTORS, SOLID STATE PHYSICS, IONOSPHERE,
ANTENNAS, SYSTEMS ENGINEERING, ELECTRONIC
EQUIPMENT (U)

CONTENTS: CONTROL SYSTEMS, INFORMATION AND
CIRCUIT THEORY, ELECTRON DEVICES AND DIRECTLY
ASSOCIATED CIRCUITS, MASERS AND PARAMETRIC
AMPLIFIERS, TRANSISTORS AND OTHER SOLID STATE
DEVICES, RADIOSCIENCE, IONOSPHERE STUDIES, AND
ANTENNAS, SYSTEMS TECHNIQUES, EQUIPMENTS AND
SUBCOMPONENTS, REPORTS NOT OTHERWISE CATEGORIZED. (U)

UNCLASSIFIED

AD REPORT ABSTRACTS SEARCH CONTROL NO. 000390

AD-615 1/71

STAFFORD UNIVERSITY CALIF STAFFORD ELECTRONICS LABS
ABSTRACTS OF UNCLASSIFIED TECHNICAL REPORTS ISSUED BY
STAFFORD ELECTRONICS LABORATORIES DURING 1959. (U)

60 JIP

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ELECTRONICS, ABSTRACTING),
BIBLIOGRAPHIES, ELECTRONIC EQUIPMENT, REPORTS,
DOCUMENTATION, LASERS, SEMICONDUCTOR DEVICES,
ELECTROMAGNETIC WAVES, COMPUTERS, RADIO WAVES,
PROPAGATION, NETWORKS, THEORY, COMMUNICATION THEORY,
ELECTRONICS LABORATORIES (U)

THE WORK HEREIN ABSTRACTED PERTAINS TO THE BROAD
GENERAL CLASSIFICATIONS OF RADIO PROPAGATION
RESEARCH, ELECTRON DEVICES RESEARCH, SOLID-STATE
ELECTRONICS RESEARCH, AND RESEARCH IN THE AREAS OF
CONTROL SYSTEMS, NETWORK THEORY, COMMUNICATION
THEORY, AND SYSTEMS TECHNIQUES. IT DOES NOT
INCLUDE CLASSIFIED WORK IN THE AREAS OF SYSTEMS
TECHNIQUES AND RADIO PROPAGATION RESEARCH; HOWEVER
ATTENTION IS DIRECTED TO A COMPANION PUBLICATION
WHICH LISTS TITLES, ON AN UNCLASSIFIED BASIS, OF ALL
REPORTS, BOTH CLASSIFIED AND UNCLASSIFIED, IN ALL OF
THESE ACTIVITIES. (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-609 082

STANFORD UNIV CALIF STANFORD ELECTRONICS LABS
BIBLIOGRAPHY OF TECHNICAL REPORTS ISSUED BY STANFORD
ELECTRONICS LABORATORIES, 1949 THROUGH 1958. (U)

64 22P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BIBLIOGRAPHIES, ELECTRONICS),
(•ELECTRONICS, BIBLIOGRAPHIES), CIRCUITS, THEORY,
RADIO WAVES, PROPAGATION, IONOSPHERE, ANTENNAS,
SEMICONDUCTOR DEVICES, TRANSISTORS, LASERS, PARAMETRIC
AMPLIFIERS, MASERS (U)

CONTENTS: INFORMATION AND CIRCUIT THEORY
ELECTRON DEVICES AND DIRECTLY ASSOCIATED
CIRCUITS MASERS AND PARAMETRIC AMPLIFIERS
TRANSISTORS AND OTHER SOLID-STATE DEVICES
RADIO PROPAGATION; IONOSPHERE STUDIES, AND
ANTENNAS SYSTEMS TECHNIQUES EQUIPMENTS AND
SUBCOMPONENTS UNCATEGORIZED REPORTS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-609 238

HARVARD UNIV CAMBRIDGE MASS DIV OF ENGINEERING AND
APPLIED PHYSICS

LIST OF TECHNICAL AND SCIENTIFIC REPORTS AND
TECHNICAL MEMORANDA, JULY 1946 - JULY 1964.

(U)

JUL 64 44P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ELECTRONICS, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, ELECTRONICS), ELECTRONIC EQUIPMENT,
ELECTROMAGNETIC WAVES, REPORTS, SCIENTIFIC RESEARCH,
INSTRUMENTATION

(U)

LIST OF TECHNICAL AND SCIENTIFIC REPORTS AND TECHNICAL
MEMORANDA, JULY 1946 - JULY 1964.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000750

AD-610 095
STANFORD RESEARCH INST MENLO PARK CALIF
RESEARCH ON COMPUTER NEURISTOR DEVICES. (U)
DESCRIPTIVE NOTE: FINAL SUMMARY REPT. FOR 1 JUN 60-1
SEP 64,
JAN 65 13P GREEN, MILTON W. ;
CONTRACT: NONR321200
PROJ: NR048 158 ,2286

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-608 148.

DESCRIPTORS: (+NEURISTORS, COMPUTER LOGIC),
(+COMPUTER LOGIC, NEURISTORS), (+SEMICONDUCTOR
DEVICES, COMPUTER LOGIC), SUPERCONDUCTORS, CIRCUITS,
COMPUTERS, SOLID STATE PHYSICS, REVIEWS,
BIBLIOGRAPHIES (U)

THIS REPORT OUTLINES THE HISTORICAL DEVELOPMENT OF
THE RESEARCH ACTIVITIES, INDICATES THE AREAS IN WHICH
SUBSTANTIAL PROGRESS WAS MADE, AND DESCRIBES SOME OF
THE DIFFICULTIES ENCOUNTERED IN PRACTICAL DEVICE
REALIZATION. AN ANNOTATED BIBLIOGRAPHY OF FORMAL
REPORTS AND PUBLISHED TECHNICAL PAPERS THAT WERE
SUBMITTED TO THE ONR DURING THE INTERVAL COVERED BY
THIS CONTRACT IS ALSO INCLUDED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-613 211

RAND CORP SANTA MONICA CALIF

COMPUTATIONAL LINGUISTICS: BIBLIOGRAPHY, 1964, (U)

MAR 65 60P HAYS, DAVID G.; MA, ROXANA ;

REPT. NO. RM-4523-PR

CONTRACT: AF49 628 700

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*LANGUAGE, BIBLIOGRAPHIES),
(*DOCUMENTATION, BIBLIOGRAPHIES), (*COMPUTERS,
BIBLIOGRAPHIES), CLASSIFICATION, PROGRAMMING
LANGUAGES, COMPUTERS, COMPUTER STORAGE DEVICES,
MACHINE TRANSLATION, DICTIONARIES, SUBJECT INDEXING,
INFORMATION RETRIEVAL, SEARCH THEORY, CODING,
DECODING, INPUT/OUTPUT DEVICES, ABSTRACTING (U)

IDENTIFIERS: COMPUTATIONAL LINGUISTICS, LINGUISTICS,
CODING (DOCUMENTATION), ENGLISH LANGUAGE, CHINESE
LANGUAGES, RUSSIAN LANGUAGES, SEMANTICS (U)

CONTENTS (809 ITEMS): CLASSIFICATION THEORY
COMPUTATION AND PROGRAMMING COMPUTATIONAL
LINGUISTICS COMPUTERS AND HARDWARE DOCUMENTATION
LINGUISTICS NON-NUMERICAL COMPUTER APPLICATIONS
PSYCHOLINGUISTICS AUTHOR INDEX ORGANIZATION
INDEX (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-814 471

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

SOVIET AIRCRAFT CIRCUIT BREAKERS. (U)

DESCRIPTIVE NOTE: ANNOTATED BIBLIOGRAPHY ON SURVEYS OF
SOVIET-UNION SCIENTIFIC AND TECHNICAL LITERATURE.

JUL 65 22P

REPT. NO. AD-814-65-54

MONITOR: IT , 65-62675

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (CIRCUIT BREAKERS, AIRCRAFT
EQUIPMENT), USSR, BIBLIOGRAPHIES, ABSTRACTING,
ELECTRIC RELAYS, ELECTRIC SWITCHES, CONTROL
PANELS (U)

THIS REPORT REVIEWS SOVIET LITERATURE ON AIRCRAFT
CIRCUIT BREAKERS. IT IS BASED ON SOVIET OPEN-
SOURCE LITERATURE AVAILABLE AT THE AEROSPACE
TECHNOLOGY DIVISION AND THE LIBRARY OF
CONGRESS. MATERIAL INDIRECTLY RELATED TO THE
ASSIGNED SUBJECT HAS BEEN INCLUDED BECAUSE OF ITS
BROAD IMPLICATIONS FOR STUDY IN THIS FIELD.
ARTICLES DEALING WITH RELAYS AND CONTACTORS ARE
INCLUDED SINCE THESE DEVICES ARE FREQUENTLY USED
EITHER ALONE OR IN COMBINATION TO PERFORM CIRCUIT-
BREAKER OPERATIONS. ARTICLES DEALING WITH
GENERATOR CONTROL BOXES, STORAGE BATTERY SWITCHING
BOXES, ETC., WITH CIRCUIT BREAKERS AS COMPONENTS HAVE
ALSO BEEN INCLUDED, ALONG WITH PATENT LISTINGS
(AUTHOR CERTIFICATES) OF DEVICES SUITABLE FOR
USE IN AIRCRAFT CIRCUIT-BREAKING SYSTEMS.
AVAILABLE TECHNICAL CHARACTERISTICS OF THE VARIOUS
DEVICES CITED IN THE BIBLIOGRAPHY ARE GIVEN.
CONTACTORS THERMAL CIRCUIT BREAKERS, RELAYS, AND
CONTROL BOXES ARE LISTED. (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AU-429 155 9/5 20/14
STANFORD RESEARCH INST MENLO PARK CALIF
LITERATURE SURVEY PERTAINING TO ELECTRICALLY SMALL
ANTENNAS, PROPAGATION THROUGH VEGETATION, AND RELATED
TOPICS. (U)
DESCRIPTIVE NOTE: SPECIAL TECHNICAL REPT.,
JAN 64 287P TAYLOR, JOHN IPOSEY, KENNETH
A. IHAGAN, GEORGE W. ;
REPT. NO. STR-17,
CONTRACT: DA-36-039-AMC-00040(E) ,ARPA ORDER-371
PROJ: SRI-4240,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ANTENNAS, BIBLIOGRAPHICS),
(PROPAGATION, TERRAIN), ABSTRACTS, IMPEDANCE
MATCHING, ELECTRICAL IMPEDANCE, ANTENNA RADIATION
PATTERNS, JUNGLES, MOUNTAINS, ELECTROMAGNETIC
WAVES, PROPAGATION, PLANTS(BOTANY), CIRCUITS,
GROUND(ELECTRICAL), STATE-OF-THE-ART REVIEWS,
HIGH FREQUENCY (U)

BIBLIOGRAPHICAL REFERENCES, WITH ABSTRACTS WHEREVER
POSSIBLE, ARE GIVEN FOR REPORTS, PAPERS, AND BOOKS
PERTAINING TO THE THEORY AND PRACTICAL USE OF
ELECTRICALLY SMALL ANTENNAS IN A VARIETY OF
ENVIRONMENTS AND LOCATIONS. REFERENCES ARE GROUPED
BY CONTENT INTO CATEGORIES: ELECTRICALLY SMALL
ANTENNAS; MATCHING CIRCUITS AND ANTENNA IMPEDANCES;
GROUND CONSTANTS; GROUND PROXIMITY LOSS; BURIED
ANTENNAS; PROPAGATION OVER LOSSY GROUND; PROPAGATION
THROUGH STRATIFIED MEDIA; PROPAGATION THROUGH
VEGETATION; PATTERNS AND DIRECTIVITY OF ANTENNAS OVER
LOSSY GROUND; BOOKS, BIBLIOGRAPHIES, AND SURVEYS; AND
GENERAL, INCLUDING HISTORICAL REVIEWS. A LIST OF
AUTHORS AND AN INDEX OF CROSS REFERENCES BETWEEN
CATEGORIES ARE PROVIDED. THE DATES OF THE
REFERENCES EXTEND FROM PRE-WORLD WAR II TO
EARLY 1964, WITH THE PREPONDERANT EMPHASIS ON THE
PERIOD 1940-1966. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-697 244 9/2 12/1
JULIUS SCIENTIFIC RESEARCH LABS SEATTLE WASH MATHEMATICS
RESEARCH LAB
NUMERICAL ANALYSIS AND RELATED LITERATURE FOR
SCIENTIFIC COMPUTER USERS. (U)
DESCRIPTIVE NOTE: SECOND ED.,
MAR 66 2JIP PRICE, JAMES F. ;
REPT. NO. DI-67-0517, MATHEMATICAL NOTE-456

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, (NUMERICAL
ANALYSIS), (PROGRAMMING (COMPUTERS), NUMERICAL
ANALYSIS) (U)

THE SECOND EDITION OF THIS ANNOTATED
BIBLIOGRAPHY LISTS THE CONTENTS OF OVER 150 BOOKS IN
ENGLISH ON NUMERICAL ANALYSIS AND RELATED
LITERATURE. IT IS MEANT FOR THE GENERAL SCIENTIFIC
COMPUTER USER AND NOT FOR THE RESEARCH NUMERICAL
ANALYST; THE DESCRIPTIONS AND SUGGESTIONS ARE GIVEN
WITH THIS IN MIND. IT IS EXPECTED THAT THE MOST
USEFUL SECTION WILL BE THE 27-PAGE INDEX WHICH TELLS
IN WHICH BOOKS VARIOUS TOPICS MAY BE FOUND. THERE
IS ALSO A SECTION DESCRIBING HOW TO LOOK UP FURTHER
INFORMATION ON SUCH TOPICS WHICH MAY BE FOUND IN THE
LITERATURE. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-633 103 9/72
AFROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
COMPUTER TECHNOLOGY: ANNOTATED BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: REPT. NO. 4 ON ATD WORK ASSIGNMENT NO.
#1,
JAN 66 26P PODOSKI, JOSEPH J. ;
PODPALE, VLADIMIR ;
REPT. NO. ATD-66-12,
MONITOR: TT , 66-61269

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET OPEN-SOURCES PUB.
1961-64. REPT. ON SURVEYS OF SOVIET SCIENTIFIC AND
TECHNICAL LITERATURE.

DESCRIPTORS: (BIBLIOGRAPHIES, *COMPUTERS),
USSR

(U)

THIS BIBLIOGRAPHY WAS COMPILED FROM SOVIET OPEN
SOURCES PUBLISHED 1961-1964. IT IS THE FOURTH IN A
SERIES OF REPORTS REVIEWING SOVIET DEVELOPMENTS IN
COMPUTER TECHNOLOGY. INFORMATION NOT DIRECTLY
RELATED TO THE ASSIGNED SUBJECT HAS BEEN INCLUDED
BECAUSE OF ITS BROAD IMPLICATIONS FOR STUDY IN THIS
FIELD. THE 244 ENTRIES ARE ARRANGED ALPHABETICALLY
BY AUTHOR WITHIN EACH OF THE YEARS COVERED (46 FOR
1961, 59 FOR 1962, 59 FOR 1963, AND 90 FOR 1964). A
LIST OF THE JOURNALS SCANNED IN PREPARATION OF THE
BIBLIOGRAPHY IS INCLUDED. OTHER INFORMATION
COVERED: TRANSISTORIZED AMPLIFIER, BINARY CODES,
MAGNETIC TAPE, PROBLEM PROGRAMMING, ALGORITHM CODING
AND PROGRAMMING, WIDE-BAND THYRISTRE MULTIPLYING AND
DIVIDING DEVICE, FERROMAGNETIC FILMS, PNEUMATIC
CIRCUITS, PARAMETER OSCILLATORS WITH FERRITE CORES,
MAGNETIC DRUM STORAGE UNIT, TRANSISTORIZED PRECISION
INTEGRATOR, ANALOG-DIGITAL CONVERTER, POTENTIOMETER,
PHOTOELECTRONIC DECODER, PULSE DIVIDER, MAGNETIC
CIRCUIT, AMPLIFIERS, DIFFERENTIATING AND INTEGRATING
CIRCUITS, FULL-KEY RELAY COMPUTER, DIGITAL-TO-ANALOG
CONVERTER, TUNNEL-DIODE DETECTOR, NONLINEAR
PROGRAMMING, TRIGGER CIRCUIT, FLIP-FLOPS, FUNCTIONAL
CONVERTER, FERRITE STORAGE UNIT, MEMORY UNIT, DELAY
LINE, ENCODER, AND PRINTING DEVICE. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-633 173 9/2
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
COMPUTER TECHNOLOGY: COMPILATION OF ABSTRACTS. (U)
DESCRIPTIVE NOTE: REPT. NO. 5 ON ATD WORK ASSIGNMENT NO.
81.
FEB 66 42P DUNCOV, BORIS ;
REPT. NO. ATD-66-19,
MONITOR: TT , 66-61367

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET OPEN SOURCES PUB.
1965. SEE ALSO AD-633 103.

DESCRIPTORS: (*COMPUTERS, *BIBLIOGRAPHIES),
DESIGN, SCHEDULING, COMPUTER LOGIC,
MICROMINIATURIZATION(ELECTRONICS), USSR (U)

THE 35 ABSTRACTS ARE ARRANGED ALPHABETICALLY BY
AUTHOR WITHIN EACH OF THE FOLLOWING CATEGORIES:
COMPONENTS, DESIGN, APPLICATIONS, AND ASSOCIATED
SYSTEMS. A RECENT REVIEW OF TWO SOVIET ARTICLES
ON HOMOGENEOUS MICROELECTRONIC STRUCTURES IS INCLUDED
IN THE APPENDIX. A BIBLIOGRAPHY IS PRESENTED AT
THE END OF THE REPORT. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-693 775 9/3 17/2 4/2 9/2
ARMY ELECTRONICS COMMAND FORT MONMOUTH N J
BIBLIOGRAPHY OF PUBLICATIONS AND PRESENTATIONS,
1965 (WITH KWIC INDEX). (U)
APR 66 56P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*ELECTRONICS, *BIBLIOGRAPHIES),
(*METEOROLOGY, BIBLIOGRAPHIES), (*COMMUNICATION
SYSTEMS, BIBLIOGRAPHIES), ELECTRICAL ENGINEERING,
DATA PROCESSING SYSTEMS, COMBAT SURVEILLANCE,
AERONAUTICS, NAVIGATION, ELECTROMAGNETIC
WARFARE, POWER SUPPLIES, SUBJECT INDEXING (U)
IDENTIFIERS: KWIC INDEX (U)

THIS BIBLIOGRAPHY LISTS 269 TECHNICAL PUBLICATIONS
AND PRESENTATIONS WRITTEN BY PERSONNEL OF THE U. S.
ARMY ELECTRONICS COMMAND DURING CALENDAR YEAR
1965. THE ENTRIES APPEAR ALPHABETICALLY BY SENIOR
AUTHOR, AND A KEY WORD IN CONTEXT (KWIC)
INDEX IS PROVIDED FOR RETRIEVAL OF TITLES BY SUBJECT
AREA. UNITED STATES PATENTS GRANTED TO ECOM
PERSONNEL ARE LISTED SEPARATELY. AMONG THE BROAD
SUBJECT AREAS COVERED IN THE BIBLIOGRAPHY ARE:
ELECTRONIC ENGINEERING, COMMUNICATIONS, AUTOMATIC
DATA PROCESSING SYSTEMS, COMBAT SURVEILLANCE,
AVIONICS, NAVIGATION, ATMOSPHERIC SCIENCES,
ELECTRONIC WARFARE, ELECTRONIC COMPONENTS, POWER
SOURCES, MATERIALS AND RELATED FIELDS OF PHYSICS AND
MATHEMATICS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-633 892 9/2
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C

COMPUTER TECHNOLOGY: COMPILATION OF ABSTRACTS. (U)

DESCRIPTIVE NOTE: REPT. NO. 6 ON WORK ASSIGNMENT NO.
91,

APR 66 46P DONCOV, BORIS ;
REPT. NO. ATD-66-37,
MONITOR: TT , 66-61430

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET OPEN SOURCES PUB.
1965. REPT. ON SURVEYS OF SOVIET SCIENTIFIC AND
TECHNICAL LITERATURE. SEE ALSO AD-633 379.

DESCRIPTORS: (*COMPUTERS, *BIBLIOGRAPHIES),
DESIGN, COMPUTER LOGIC, SCHEDULING, USSR (U)

THE 38 ABSTRACTS ARE ARRANGED ALPHABETICALLY BY
AUTHOR WITHIN EACH OF THE FOLLOWING CATEGORIES:
COMPONENTS (5 ENTRIES), DESIGN (10 ENTRIES),
APPLICATIONS (11 ENTRIES), AND ASSOCIATED
SYSTEMS (12 ENTRIES). A BIBLIOGRAPHY COMPRISING
79 ENTRIES IS INCLUDED. OTHER INFORMATION
INCLUDED: TUNNEL DIODE MEMORY CELL, TRANSFLUXORS,
PARAMETRON, THREE-PHASE PULSE GENERATOR, SWITCHING
DIODE, CRYOTRON MEMORY UNIT, DIGITAL COMPUTER,
DIGITAL COMPUTER STORAGE OF METEOROLOGICAL
INFORMATION, DOCUMENT INFORMATION RETRIEVAL SYSTEM,
ANALOG COMPUTER, PROGRAM CONTROL, COMPUTER
PHOTOREADERS, AUTOMATIC PROGRAMMING, AUTOMATIC
CONTROL, ANALOG-DIGITAL MULTIPLIERS, MAGNETIC TAPE
SIGNAL CODING, DIGITAL COUNTER, COMPUTER CIRCUIT.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-634 09C 9/5 12/1
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
MATHEMATICS OF ANTENNAS: ANNOTATED
BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: ATC WORK ASSIGNMENT NO. 79, TASK 12,
MAR 66 68F KACINSKAS, LEONAS ;
REPT. NO. ATD-66-33,
MONITOR: TT , 66-61465

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET OPEN SOURCES PUB.
1961-64. REPT. ON SURVEYS OF SOVIET SCIENTIFIC AND
TECHNICAL LITERATURE.

DESCRIPTORS: (•BIBLIOGRAPHIES, •ANTENNAS),
(•MATHEMATICS, ANTENNAS), THEORY, USSR (U)
IDENTIFIERS: APPLIED MATHEMATICS (U)

THIS ANNOTATED BIBLIOGRAPHY DEALS WITH THEORETICAL
ASPECTS OF ANTENNAS. THE 199 ENTRIES ARE ARRANGED
IN ALPHABETICAL ORDER BY YEAR WITH THE FOLLOWING
BREAKDOWN: 1961--52 ENTRIES, 1962--38 ENTRIES,
1963--49 ENTRIES, AND 1964--60 ENTRIES. OTHER
INFORMATION INCLUDED: RADIO WAVE DIFFRACTION
DETERMINATION, PENCIL-BEAM ANTENNA, SPHERICAL
ANTENNA, ANTENNA FEEDER SYSTEMS, HORN ANTENNA, SLOT
ANTENNA, REFLECTOR-TYPE ANTENNA, SCANNING ANTENNA,
ELECTRICAL BEAM SCANNING, DIRECTIONAL ANTENNA,
APLANATIC ANTENNAS, CIRCULAR APERTURE ANTENNA, PLANE
APERTURE ANTENNA, ANTENNA LOSS DETERMINATION,
PERISCOPE ANTENNA SYSTEM, LINEAR ANTENNA, HELIX-
DIELECTRICAL ANTENNA, DIFFRACTION ANTENNA, DIELECTRIC
LENS ANTENNA, PHASE CENTER OF ANTENNAS, AND DIPOLE
ANTENNA. (AUTHOR) (U)

UNCLASSIFIED

DJC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-679 837 9/2 5/3 6/4
RAND CORP SANTA MONICA CALIF
SOVIET CYBERNETICS TECHNOLOGY: VII, ALGEC - REPORT
ON AN ALGORITHMIC LANGUAGE FOR ECONOMICS CALCULATIONS
(PRELIMINARY VERSION), (U)
SEP 66 157P KOROLEV, M. A. ;
REPT. NO. RM-5135-PR,
CONTRACT: AF 49(628)-1700.
MONITOR: TT 66-62781

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: TRANS. OF MONO. SOOBSHCHENIE OB
ALGORTMICHESKOM YAZYKE DLYA EKONOMICHESKIKH
RASCHETOV 'ALGEC', N.P., 19 JUN 1964. SEE ALSO
AD-624 290.

DESCRIPTORS: (*CYBERNETICS, USSR), (*PROGRAMMING
LANGUAGES, *ECONOMICS), (*ALGORITHMS,
ECONOMICS), COMPILERS, COMPUTATIONAL
LINGUISTICS, ENGLISH LANGUAGE, RUSSIAN LANGUAGE,
BIBLIOGRAPHIES, PROGRAMMING (COMPUTERS) (U)
IDENTIFIERS: ALGEC, ALGOL (U)

A WORKING VERSION IS GIVEN OF AN EXPANSION OF THE
INTERNATIONAL HIGH-LEVEL COMPUTER LANGUAGE ALGOL 60
TO MEET SOVIET ECONOMIC PLANNING NEEDS. A
COMMITTEE HEADED BY M. A. KOROLEV WAS DIRECTED BY
THE SOVIET GOVERNMENT TO CREATE SUCH A LANGUAGE.
ALGEC CONVERTS ALGOL 60 FOR USE WITH THE
CYRILLIC ALPHABET, PROVIDES FOR HANDLING TEXT,
EDITING, LIST PROCESSING, AND FOR ACCESS TO
INDIVIDUAL ITEMS ON LISTS AND ARRAYS. THE RAND
TRANSLATORS OF THE RUSSIAN DRAFT SHOW ALL CHANGES
FROM THE ORIGINAL ALGOL 60. ALGOL CONVENTIONS
IGNORED BY THE AUTHOR HAVE BEEN RESTORED, AND
AMBIGUITIES CLARIFIED. DEFINITIONS OF TERMS AND
SYNTACTIC UNITS HAVE BEEN INDEXED. RUSSIAN-
ENGLISH AND ENGLISH-RUSSIAN GLOSSARIES OF ALL
ALGOL AND ALGEC TERMS AND AN ANNOTATED
BIBLIOGRAPHY OF 12 RAND PUBLICATIONS ON SOVIET
CYBERNETICS TECHNOLOGY ARE APPENDED. (AUTHOR)

(U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-643 051 9/2
LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV
COMPUTER TECHNOLOGY. COMPILATION OF ABSTRACTS, (U)
SEP 66 34P CONCERNING ;
REPT. NO. ATD-66-120
MONITOR: TT 67-40231

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPT. ON SURVEYS OF FOREIGN
SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (COMPUTERS, BIBLIOGRAPHIES),
COMPUTER STORAGE DEVICES, CIRCUITS, SCANNING,
DIGITAL COMPUTERS, PROGRAMMING (COMPUTERS) (U)

THE 67 ABSTRACTS ARE ARRANGED ALPHABETICALLY BY
AUTHOR WITHIN EACH OF THE FOLLOWING CATEGORIES:
COMPONENTS (21 ENTRIES); DESIGN (14 ENTRIES);
APPLICATIONS (11 ENTRIES); AND ASSOCIATED
SYSTEMS (23 ENTRIES). A BIBLIOGRAPHY COMPRISING
69 ENTRIES IS INCLUDED. INFORMATION INCLUDED:
SEMICONDUCTOR-CONTROLLED MEMORY UNIT WITH INCREASED
SPEED OF OPERATION; TAPE CORES AS LOGICAL ELEMENTS
FOR DIGITAL COMPUTERS; A MAGNETIC PARAMETRON-TYPE
NULL CIRCUIT; SCANNING DEVICE UTILIZING A FIBER-
OPTICAL CONVERTER; MODEL FOR INTERMEDIATE NEURON;
MICROMODULE CONSTRUCTION TECHNIQUES; ELECTRON-OPTICAL
MEMORY; MAGNETIC LOGIC ELEMENTS; LOGICAL ORGANIZATION
OF THE UNITE-3 CONTROL COMPUTER; SMALL-SIZE
DIGITAL COMPUTERS; ELECTRONIC DIGITAL COMPUTERS AT THE
'INTEK-65' EXHIBIT; INFORMATION CONVERSION
DEVICES; SIMPLE FAILURE INDICATORS; DECODING DEVICES;
CONVERTERS FOR TELEMETRY SYSTEMS USING MAGNETIC
ELEMENTS; EXPERIMENTAL DEVICE FOR CODING AND ENTRY OF
ELECTRICAL SIGNALS INTO A COMPUTER. (AUTHOR) (U)

UNCLASSIFIED

DLC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-646 797 972
LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV
COMPUTER TECHNOLOGY. (U)
DESCRIPTIVE NOTE: REPT. NO. 8 ON ATD WORK ASSIGNMENT NO.
81.
DEC 66 SIP DONCOV. MORIS ;
REPT. NO. ATD-66-145
MONITOR: IT 67-6L967

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: COMPILATION OF ABSTRACTS BASED ON
SOVIET OPEN SOURCES PUB. 1965-66. REPT. ON SURVEYS OF
FOREIGN SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (COMPUTERS, BIBLIOGRAPHIES),
ABSTRACTS, ANALOG COMPUTERS, DIGITAL COMPUTERS,
COMPUTER LOGIC, COMPUTER STORAGE DEVICES,
CODING, USSR (U)

THE 45 ABSTRACTS ARE ARRANGED ALPHABETICALLY BY
AUTHOR WITHIN EACH OF THE FOLLOWING CATEGORIES:
COMPONENTS (7 ENTRIES); DESIGN (27 ENTRIES);
APPLICATIONS (7 ENTRIES); AND ASSOCIATED SYSTEMS
(12 ENTRIES). A BIBLIOGRAPHY IS PRESENTED AT THE
END OF THE REPORT. PERTINENT INFORMATION
INCLUDED: A MULTICHANNEL AUTOCOMPENSATING
MULTIPLIER/DIVIDER UNIT, ANALOG-DIGITAL SIGNAL
COMPARISON CIRCUIT, USE OF DIGITAL LOGIC ELEMENTS IN
ANALOG MACHINES DESIGNED FOR SOLVING BOUNDARY
PROBLEMS, EASPS ELECTROIC RANDOM PROCESS
ANALYZER, BESM-4 COMPUTER COMPLEX, MEMORY UNITS,
LONG-TERM MEMORY SYSTEM, M-20 DIGITAL COMPUTER,
SYSTEM FOR INFORMATION TRANSFER BETWEEN DIGITAL AND
ANALOG COMPUTERS, GATHERING PRIMARY VIDEO INFORMATION
WITH SOJA-SCAN TV FACILITIES, SINGLE-CHANNEL
DIGITAL OPTIMIZER, INFORMATION REFERRAL CENTER, CODE
CONVERTERS, RELAY-TYPE CONTACTLESS REGULATOR.
(AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-691 707 9/2
NAVAL RESEARCH LAB WASHINGTON D C
MULTIPROCESSOR OPERATING SYSTEMS,
APR 67 33P WALD, BRUCE ;
REPT. NO. NML-6521
PROJ: PF-(001-0A-41-4952

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: (TIME SHARING, STATE-OF-THE-ART
REVIEWS), (DATA PROCESSING SYSTEMS,
OPTIMIZATION), (MULTIPLE OPERATION,
COMPUTERS), PROGRAMMING (COMPUTERS),
HISTORY, MONTE CARLO METHOD, DIGITAL
COMPUTERS, THESES, SCHEDULING, BIBLIOGRAPHIES
IDENTIFIERS: MULTIPROCESSING,
MULTIPROGRAMMING

(U)

(U)

THE HISTORY AND PRESENT STATUS (1969) OF
MULTIPROCESSING, MULTIPROGRAMMING, AND TIMESHARING
ARE REVIEWED. IT IS CONCLUDED THAT, DESPITE THEIR
DIVERSE HISTORIES, THESE TECHNIQUES ARE DESTINED TO
BE INTERMIXED. ALTHOUGH THE MECHANICAL PROBLEMS
IN OPERATING SYSTEMS THAT EXPLOIT THESE TECHNIQUES
HAVE LARGELY BEEN SOLVED AND THE DIFFICULT MEMORY
ALLOCATION PROBLEM IS ON THE BRINK OF SOLUTION, THE
IMPORTANT QUESTION OF OPTIMUM OPERATING SYSTEM
STRATEGY IN INITIATING, SUSPENDING, AND TERMINATING
JOBS IS LARGELY UNEXPLORED. SUGGESTIONS ARE MADE
CONCERNING MODELS WHICH MIGHT BE SUITABLE FOR BOTH
ANALYTIC AND MONTE-CARLO APPROACHES TO THE
OPTIMIZATION OF OPERATING SYSTEM STRATEGY AND TO THE
SELECTION OF OPTIMUM HARDWARE MIXES. AN EXTENSIVE
BIBLIOGRAPHY IS INCLUDED. (AUTHOR)

(U)

ENERGY CONVERSION (NON-PROPULSIVE)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-406 106
HARRY DIAMOND LABS WASHINGTON D C
OXYGEN SOURCES FOR FUEL CELLS, (U)
APP 63 29P ORZIATI, A.F. BINGMAN, D. I
PROJ: 96094
MONITOR: HDL TR1128

UNCLASSIFIED REPORT

DESCRIPTORS: *FUEL CELLS, *OXYGEN, *BIBLIOG
RAPHS, COMPRESSED AIR, LIQUEFIED GASES,
CHEMICAL COMPOUNDS, ELECTROCHEMISTRY, POWER,
CRYOGENICS, SPECIFICATIONS, CYLINDRICAL BODIES,
VOLUME, WEIGHT, CONTAINERS, MATERIALS,
BARIUM COMPOUNDS, PEROXIDES, LITHIUM
COMPOUNDS, SODIUM COMPOUNDS, CHLORATES,
POTASSIUM COMPOUNDS, GAS-GENERATING SYSTEMS,
DESIGN, INDUSTRIAL PLANTS, STORAGE, POWER
SUPPLIES, BATTERIES AND COMPONENTS. (U)
IDENTIFIERS: SUPEROXIDES. (U)

COMMERCIALY AVAILABLE GAS, LIQUID, AND CHEMICAL
SOURCES OF OXYGEN FOR USE WITH FUEL CELL BATTERIES
ARE COMPARED. CRYOGENIC SOURCES ARE SHOWN TO BE
THE MOST EFFICIENT ON A WEIGHT AND VOLUME BASIS.
CHEMICAL GENERATORS ARE SATISFACTORY FOR
APPLICATIONS REQUIRING RATHER LARGE QUANTITIES OF
OXYGEN GAS AT INFREQUENT PERIODS. COMPRESSED GAS
CYLINDERS ARE CONVENIENT WHEN SMALL QUANTITIES OF
OXYGEN ARE DESIRED. A BIBLIOGRAPHY OF SELECTED
PUBLICATIONS DURING THE PAST FIVE YEARS IS INCLUDED.
(AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-420 421

NAVAL RESEARCH LAB WASHINGTON D C
DIRECT ENERGY CONVERSION LITERATURE ABSTRACTS, (U)
178P PICKENPAUGH, EILEEN I

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ENERGY CONVERSION, BIBLIOGRAPHIES),
(THERMOELECTRICITY, ABSTRACTS), (BIBLIOGRAPHIES,
ENERGY CONVERSION), THERMIONIC CONVERTERS, THERMIONIC
EMISSION, MAGNETOHYDRODYNAMICS, POWER SUPPLIES, SOLAR
CELLS, GENERATORS (U)
IDENTIFIERS: 1963 (U)

A COLLECTION OF REFERENCES FROM VARIOUS SOURCES
COVERING THE CURRENT LITERATURE ON THERMOELECTRICITY,
THERMIONIC EMISSION, PHOTOELECTRIC PROCESSES,
MAGNETOHYDRODYNAMICS, ELECTROCHEMICAL PROCESSES,
ENERGY STORAGE, AND ENERGY SOURCES. (U)

UNCLASSIFIED

DJC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-423 714

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
AUXILIARY POWER SYSTEMS FOR SPACECRAFT. AN ANNOTATED
BIBLIOGRAPHY, (U)

MAY 63 57P STROMER, PETER R. ;
REPT. NO. R 55 63 4 , SB63 46
CONTRACT: AF04 695 126

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (POWER SUPPLIES, BIBLIOGRAPHIES),
(SPACECRAFT, POWER SUPPLIES), (BIBLIOGRAPHIES, POWER
SUPPLIES), SOLAR CELLS, FUEL CELLS, BATTERIES +
COMPONENTS, ABSTRACTS, NUCLEAR POWER PLANTS (U)
IDENTIFIERS: 1963 (U)

ONE HUNDRED AND THIRTY-FIVE REFERENCES HAVE BEEN
SELECTED FROM THE 1962-1963 LITERATURE REPORTING
RESEARCH AND DEVELOPMENT IN AUXILIARY POWER SYSTEMS
FOR SPACECRAFT. EMPHASIS HAS BEEN PLACED ON SOLAR
AND NUCLEAR AUXILIARY POWER SOURCES WITH ONLY A
REPRESENTATIVE SAMPLING OF OTHER CONCEPTS SUCH AS
MAGNETOHYDRODYNAMICS, BIOCHEMICAL AND HYDROX FUEL
CELLS, BATTERIES, ETC. SUBJECT AND CORPORATE SOURCE
INDEXES ARE PROVIDED. THE FACILITIES OF THE
LOCKHEED MISSILES AND SPACE COMPANY,
TECHNICAL INFORMATION CENTER WERE UTILIZED IN
THE COMPILATION OF THIS BIBLIOGRAPHY. (AUTHOR)

(U)

UNCLASSIFIED

DIC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-420 693

NAVAL RESEARCH LAB WASHINGTON D C

DIRECT ENERGY CONVERSION LITERATURE ABSTRACTS. (U)

DEC 63 196P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BIBLIOGRAPHIES, ENERGY CONVERSION),
(•ENERGY CONVERSION, BIBLIOGRAPHIES), (•POWER
SUPPLIES, ABSTRACTS), (•ELECTRIC POWER PRODUCTION,
BIBLIOGRAPHIES), THERMOELECTRICITY, THERMIONIC
EMISSION, MAGNETOHYDRODYNAMICS, FUEL CELLS, ENERGY,
PHOTOELECTRIC CELLS (SEMICONDUCTOR), ELECTROCHEMISTRY,
BATTERIES AND COMPONENTS, THERMIONIC CONVERTERS,
NUCLEAR ENERGY (U)
IDENTIFIERS: 1963 (U)

THIS IS THE SIXTH IN A SERIES OF BIBLIOGRAPHIES
COVERING UNCLASSIFIED LITERATURE RELATED TO THE
DIRECT CONVERSION OF ENERGY. SUBJECT COVERAGE
INCLUDES THERMOELECTRICITY, THERMIONIC EMISSION,
PHOTOELECTRIC PROCESSES, MAGNETOHYDRODYNAMICS,
ELECTROCHEMICAL PROCESSES, ENERGY STORAGE, AND
ENERGY SOURCES. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-465 981

PENNSYLVANIA STATE UNIV UNIVERSITY PARK MINERAL INDUSTRIES
EXPERIMENT STATION

BIBLIOGRAPHY OF FUEL CELL CONTRACTS. (U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR 1954-1964,
JAN 65 28P LERNER, HARRY ; AUSTIN, L. G.

REPT. NO. 8
CONTRACT: DA49 186AMC146D

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, FUEL CELLS),
(*FUEL CELLS, BIBLIOGRAPHS) (U)

A LIST HAS BEEN PREPARED OF CONTRACTS FOR WORK ON
FUEL CELLS SPONSORED BY FEDERAL AGENCIES OF THE
USA BETWEEN ABOUT 1954 AND 1964. ABSTRACTS OF
THE OBJECTIVES AND RESULTS OF THE RESEARCH ARE NOT
GIVEN SINCE IT HAS NOT YET BEEN POSSIBLE TO OBTAIN
ALL OF THE REPORTS OF THE CONTRACTS. IT IS HOPED
THAT THE LIST IS ALMOST COMPLETE. TWO HUNDRED AND
TWENTY CONTRACTS ARE INCLUDED, LET BY 34 DIFFERENT
AGENCIES, TO 97 PRIME CONTRACTORS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-601 224

NAVAL RESEARCH LAB WASHINGTON D C

DIRECT ENERGY CONVERSION LITERATURE ABSTRACTS. (U)

DESCRIPTIVE NOTE: REPT. NO. 7

APR 64 124P PICKENPAUGH, EILEEN S

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, ENERGY CONVERSION),
(*ENERGY CONVERSION, BIBLIOGRAPHIES), (*ABSTRACTS,
ENERGY CONVERSION), THERMIONIC EMISSION,
THERMOELECTRICITY, PHOTOELECTRIC EFFECT,
ELECTROCHEMISTRY, MAGNETOHYDRODYNAMICS, ENERGY (U)

A COLLECTION OF REFERENCES FROM VARIOUS SOURCES
COVERING THE CURRENT LITERATURE ON THERMOELECTRICITY,
THERMIONIC EMISSION, PHOTOELECTRIC PROCESSES,
MAGNETOHYDRODYNAMICS, ELECTROCHEMICAL PROCESSES,
ENERGY STORAGE, AND ENERGY SOURCES. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-604 746

AEROSPACE CORP EL SEGUNDO CALIF

APPLIED RESEARCH MANAGEMENT ABSTRACT BULLETIN, PART

1. ABSTRACTS 1-1704 THROUGH 1-1752. (U)

JUN 62 70P

CONTRACT: AF04 647 930

MONITOR: DCAS , TN61 > P1 12

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*POWER SUPPLIES, BIBLIOGRAPHIES),
(*MATERIALS, BIBLIOGRAPHIES), (*BIBLIOGRAPHIES, POWER
SUPPLIES), BATTERIES AND COMPONENTS, FUEL CELLS,
NUCLEAR ENERGY, SOLAR CELLS, THERMIONIC CONVERTERS,
VEHICLES, FLIGHT, ROCKETS, ALLOYS, METALS, PLASTICS,
COMPOSITE MATERIALS, COATINGS, INDEXES, ABSTRACTING (U)

A BIBLIOGRAPHY, WITH ABSTRACTS, FROM UNCLASSIFIED
LITERATURE IS PRESENTED ON THE SUBJECT OF FLIGHT
VEHICLE POWER. SELECTED REFERENCES IN THE
FIELDS OF MATERIALS ARE ALSO INCLUDED. ALL
REFERENCES ARE TO PRIMARY SOURCES. (AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-699 380

FEDERAL AVIATION AGENCY OKLAHOMA CITY OKLA AERONAUTICAL
CENTER

FUEL CELLS; SELECTED REFERENCES. (U)

DESCRIPTIVE NOTE: BIBLIOGRAPHIC LIST NO. 2,
NOV 64 103P STOUT, LOIS J. I

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•FUEL CELLS, BIBLIOGRAPHIES,
(•BATTERIES AND COMPONENTS, BIBLIOGRAPHIES),
(•BIBLIOGRAPHIES, FUEL CELLS), ELECTRIC POWER
PRODUCTION, ELECTROLYTES, ELECTRODES,
ELECTROCHEMISTRY, ELECTRIC PROPULSION, ZINC, AMMONIA,
BIOCHEMISTRY, HYDROCARBONS, HYDROGEN, SODIUM ALLOYS,
MERCURY ALLOYS (U)

CONTENTS: GENERAL, AMMONIA, AUTOMOTIVE,
BIOCHEMICAL FUEL CELLS, DESIGN,
ELECTROCHEMISTRY, ELECTRODES, HYDROCARBONS,
HYDROGEN, HYDROGEN GENERATORS, NATURAL GAS,
REGENERATIVE, RESEARCH FUEL CELLS, SODIUM
AMALGAM, SPECIAL, THEORY, ZINC. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-613 358

NAVAL RESEARCH LAB WASHINGTON D C

DIRECT ENERGY CONVERSION LITERATURE ABSTRACTS. (U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY NO. 8.

DEC 64 139P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-601 224.

DESCRIPTORS: (ENERGY CONVERSION, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, ENERGY CONVERSION), ABSTRACTING,
THERMOELECTRICITY, THERMIONIC EMISSION, PHOTOELECTRIC
EFFECT, ELECTROCHEMISTRY, MAGNETOHYDRODYNAMICS,

ENERGY (U)

IDENTIFIERS: SOLAR POWER COLLECTORS (U)

A COLLECTION OF REFERENCES FROM VARIOUS SOURCES
COVERING THE CURRENT LITERATURE ON THERMOELECTRICITY,
THERMIONIC EMISSION, PHOTOELECTRIC PROCESSES,
MAGNETOHYDRODYNAMICS, ELECTROCHEMICAL PROCESSES,
ENERGY STORAGE, AND ENERGY SOURCES. (AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AC-A17 132

NAVAL RESEARCH LAB WASHINGTON D C

DIRECT ENERGY CONVERSION LITERATURE ABSTRACTS. (U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY NO. 9,

JUN 65 119P PICKENPAUGH, EILEEN I

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•ENERGY CONVERSION,
BIBLIOGRAPHIES), (•BIBLIOGRAPHIES, ENERGY
CONVERSION), THERMOELECTRICITY, THERMIONIC
EMISSION, PHOTOELECTRIC EFFECT, ELECTROCHEMISTRY,
MAGNETOHYDRODYNAMICS, ENERGY, ABSTRACTING (U)

THIS IS THE NINTH IN A SERIES OF BIBLIOGRAPHIES
COVERING UNCLASSIFIED LITERATURE RELATED TO THE
DIRECT CONVERSION OF ENERGY. SUBJECT COVERAGE
INCLUDES THERMOELECTRICITY, THERMIONIC EMISSION,
PHOTOELECTRIC PROCESSES, MAGNETOHYDRODYNAMICS,
ELECTROCHEMICAL PROCESSES, ENERGY STORAGE, AND ENERGY
SOURCES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-625 194 10/1 20/12 11/6 11/2
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C

MATERIALS FOR HIGH-TEMPERATURE ENERGY CONVERTERS:
ANNOTATED BIBLIOGRAPHY. (U)

DESCRIPTIVE NOTE: REPT. NO. 1 ON ATD WORK ASSIGNMENT NO.
79, TASK 22.

DEC 65 JSP SLESARENKO, MICHAEL ;
REPT. NO. ATD-65-112
MONITOR: TT, 66-60037

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET OPEN-SOURCE
MATERIALS FOR 1955-1960. REPT. ON SURVEYS OF SOVIET
SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (MATERIALS, ENERGY CONVERSION),
(ENERGY CONVERSION, MATERIALS),
(BIBLIOGRAPHIES, ENERGY CONVERSION), HIGH-
TEMPERATURE RESEARCH, USSR, ABSTRACTS, INDEXES,
SEMICONDUCTORS, ALLOYS, CERAMIC MATERIALS,
INTERMETALLIC COMPOUNDS (U)

THIS ANNOTATED BIBLIOGRAPHY IS BASED ON SOVIET
OPENSOURCE MATERIALS AVAILABLE AT THE AEROSPACE
TECHNOLOGY DIVISION AND THE LIBRARY OF
CONGRESS AND COVERS THE YEARS 1955 THROUGH 1960.
INFORMATION NOT CONFINED TO THE ASSIGNED SUBJECT
HAS BEEN INCLUDED BECAUSE OF ITS BROAD IMPLICATIONS
FOR STUDY IN THIS FIELD. TITLES OF SOVIET
MONOGRAPHS ARE GIVEN IN TRANSLITERATED FORM, FOLLOWED
BY THE ENGLISH TRANSLATION. LIBRARY OF
CONGRESS CALL NUMBERS ARE INCLUDED AT THE END OF AN
ENTRY WHEN THE ITEM IS CATALOGED AND AVAILABLE IN THE
COLLECTIONS OF THE LIBRARY. CALL NUMBERS OF
JOURNALS AND PERIODICALS FREQUENTLY REFERRED TO IN
THE BIBLIOGRAPHY ARE GIVEN ONCE, AT THEIR FIRST
APPEARANCE. TRANSLATIONS ARE INDICATED WHEN
AVAILABLE, AND ABSTRACTS ALREADY AVAILABLE IN
ENGLISH ARE INDICATED WHERE APPLICABLE.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-628 047 10/1
NAVAL RESEARCH LAB WASHINGTON D C
DIRECT ENERGY CONVERSION LITERATURE ABSTRACTS. (U)
DEC 69 1969

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ENERGY CONVERSION, ABSTRACTS),
THERMOELECTRICITY, THERMIONIC CONVERTERS,
PHOTOELECTRIC EFFECT, MAGNETOHYDRODYNAMICS,
ELECTROCHEMISTRY, NUCLEAR REACTORS,
BIBLIOGRAPHIES, PATENTS (U)

THIS IS THE TENTH IN A SERIES OF BIBLIOGRAPHIES
COVERING UNCLASSIFIED LITERATURE RELATED TO THE
DIRECT CONVERSION OF ENERGY. SUBJECT COVERAGE
INCLUDES ENERGY CONVERSION, THERMOELECTRICITY,
THERMIONICS, PHOTOVOLTIC, MAGNETOHYDRODYNAMICS,
ELECTROHYDRODYNAMICS, ELECTROCHEMICAL, NUCLEAR AND
ENERGY STORAGE. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-629 474 10/2 9/7
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
ELECTROMAGNETIC AND ELECTROSTATIC GENERATORS:
ANNOTATED BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: ATD WORK ASSIGNMENT NO. 51,
NOV 65 JJP RANDJELOVIC, JORDAN V. I
REPT. NO. ATD-65-103,
MONITOR: TT, 6A-60736

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SURVEYS OF SOVIET SCIENTIFIC AND
TECHNICAL LITERATURE.

DESCRIPTORS: (*ELECTROSTATIC GENERATORS,
BIBLIOGRAPHIES), (*GENERATORS,
BIBLIOGRAPHIES), (*ELECTROMAGNETS,
GENERATORS), ELECTRICAL EQUIPMENT, ELECTRICAL
ENGINEERING, ENERGY CONVERSION (U)

THIS ANNOTATED BIBLIOGRAPHY WAS COMPILED FROM
SOVIET OPEN SOURCES PUBLISHED 1961-1965. THE
REPORT REVIEWS SOVIET DEVELOPMENTS IN ELECTROSTATIC
AND ELECTROMAGNETIC GENERATORS. INFORMATION NOT
DIRECTLY RELATED TO THE ASSIGNED SUBJECT HAS BEEN
INCLUDED BECAUSE OF ITS BROAD IMPLICATIONS FOR STUDY
IN THIS FIELD. THE 123 ENTRIES ARE ARRANGED
CHRONOLOGICALLY WITHIN EACH OF THE FOLLOWING
CATEGORIES: ELECTROMAGNETIC GENERATORS (24
ENTRIES), ELECTROSTATIC GENERATORS (7 ENTRIES),
ELECTRIC MOTORS AND MACHINES (77 ENTRIES), AND
ASSOCIATED TECHNOLOGY (25 ENTRIES). ARRANGEMENT
WITHIN THE CHRONOLOGICAL SUBSECTIONS IS ALPHABETICAL
BY AUTHOR. OTHER PERTINENT INFORMATION INCLUDED:
SYNCHRONOUS GENERATORS, TURBOGENERATOR, INDUCTOR
ALTERNATORS, TWIN-GENERATOR WITH SPLIT POLES,
ULTRASONIC-FREQUENCY GENERATOR, UNIPOLAR GENERATOR,
SINGLE-PHASE MICROMOTORS, SYNCHRONOUS MOTOR,
ASYNCHRONOUS MOTOR, ASYMMETRICAL ROTOR, MAGNETIC
CIRCUIT, DC MICROMOTORS, CIRCUIT FOR THE AUTOMATIC
CONTROL OF SYNCHRONIZED INDUCTION MOTORS, INDUCTION
TORQUE MICROMOTORS, ELECTRIC STEP MOTOR, CONTACTLESS
DC MOTOR, HYSTERESIS MOTOR, CONTACTLESS DC ELECTRIC
DRIVE, MOTOR-AMPLIFIER SERIES, ELECTRIC JET ENGINES,
DIRECT CONVERSION OF THERMAL ENERGY INTO ELECTRICAL,
PULSE TRANSFORMER WITH COAXIAL CABLE WINDINGS, AND A
MAGNETO-TEXTURED ALLOY WITH CONSTANT AND HIGH
PERMEABILITY. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-633 463 10/2
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C

ELECTROSTATIC AND ELECTROMAGNETIC GENERATORS;
ANNOTATED BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: REPT. NO. 2 ON ATD WORK ASSIGNMENT NO.
51.

JAN 66 23P PANDJELOVIC, JORDAN V. I
REPT. NO. ATD-64-10,
MONITOR: TT, 66-61444

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET OPEN SOURCES PUB.
1941-64. NEPYA ON SURVEYS OF SOVIET SCIENTIFIC AND
TECHNICAL LITERATURE.

DESCRIPTORS: (BIBLIOGRAPHIES, ELECTROSTATIC
GENERATORS), (GENERATORS, BIBLIOGRAPHIES), USSR (U)

THE 72 ENTRIES ARE ARRANGED BY INSTITUTE.
ARRANGEMENT WITHIN THE INSTITUTES IS ALPHABETICAL
BY AUTHOR. THE BIBLIOGRAPHY COVERS THE PERIOD OF
1941 THROUGH 1964 AND IS BASED ON TRANSACTIONS
PRESENTLY AVAILABLE AT THE LIBRARY OF CONGRESS.
THE INSTITUTES ARE AS FOLLOWS: INSTITUTE OF
POWER AND ELECTRICAL ENGINEERING, LATVIAN
ACADEMY OF SCIENCES; Leningrad POLYTECHNIC
INSTITUTE IMENI M. I. KALININ; MOSCOW
AVIATION INSTITUTE IMENI SERGO ORDZHONIKIDZE;
MOSCOW POWER INSTITUTE; AND URAL
POLYTECHNIC INSTITUTE IMENI S. M. KIROV.
(AUTHORS)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-625 584 1971
NAVAL RESEARCH LAB WASHINGTON D C
DIRECT ENERGY CONVERSION LITERATURE ABSTRACTS. (U)
JUN 66 122P
REPT. NO. 11.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, ENERGY
CONVERSION), ABSTRACTS, THERMOELECTRICITY,
THERMIONIC CONVERTERS, THERMIONIC EMISSION,
PHOTOELECTRIC EFFECT, MAGNETOHYDRODYNAMICS,
ELECTROCHEMISTRY, NUCLEAR REACTORS, BATTERIES +
COMPONENTS (U)

A COLLECTION OF REFERENCES FROM VARIOUS SOURCES
COVERING THE CURRENT LITERATURE ON THERMOELECTRICITY,
THERMIONIC EMISSION, PHOTOELECTRIC PROCESSES,
MAGNETOHYDRODYNAMICS, ELECTROCHEMICAL PROCESSES,
ENERGY STORAGE, AND ENERGY SOURCES. (AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-641 304 10/2 13/13 10/1 9/1
BUREAU OF RECLAMATION DENVER COLO OFFICE OF CHIEF
ENGINEER
ANNOTATED BIBLIOGRAPHY OF BRATSK AND KRASNOIARSK
HYDROELECTRIC PROJECTS IN CENTRAL SIBERIA, USSR, (U)
SEP 66 107P SANDS, ANNE W. ;
REPT. NO. BIBLIOGRAPHY-244
MONITOR: TT 64-62544

UNCLASSIFIED REPORT

AVAILABILITY: HARD COPY AVAILABLE FROM BUREAU OF
RECLAMATION, OFFICE OF ENGINEERING REFERENCE
LIBRARY BRANCH, DENVER, COLO. \$2.00.

DESCRIPTORS: (POWER PLANTS (ESTABLISHMENTS),
USSR), (BIBLIOGRAPHIES, POWER
PLANTS (ESTABLISHMENTS)), DAMS, ELECTRIC POWER
PRODUCTION, TURBINES, CONCRETE, GENERATORS,
WELDING, METALLURGY, ELECTRICAL EQUIPMENT (U)

THIS ANNOTATED BIBLIOGRAPHY CONTAINS 352 REFERENCES
TO BOOKS, MONOGRAPHS, PAMPHLETS, AND ARTICLES,
LARGELY FROM SOVIET SOURCES, ON THESE 2 SIBERIAN
MULTIPLE-PURPOSE PROJECTS BEING COMPLETED BY SOVIET
CONSTRUCTORS. THE SCOPE OF THE PROJECTS, SIZE OF
THE EQUIPMENT BEING INSTALLED, AND CONSTRUCTION
PROBLEMS FACED IN AN UNDEVELOPED TAIGA REGION WITH A
SEVERE CLIMATE MAKE THESE PROJECTS OF INTEREST TO
AMERICAN ENGINEERS. THE USSR IS UNDERSTANDABLY
PROUD OF ITS ACCOMPLISHMENTS AND MUCH HAS BEEN
WRITTEN DESCRIBING THEM. SOVIET ENGINEERS HAVE
REPORTED IN DETAIL THE EXPERIENCE GAINED FROM THE
DESIGN, CONSTRUCTION, AND RESEARCH PROBLEMS AND
SOLUTIONS AS A BASIS FOR FUTURE CONSTRUCTION OF
SIMILAR PROJECTS IN SIBERIA. NO EFFORT HAS BEEN
MADE TO EVALUATE THE REFERENCES, FOR THE DIFFERENCE
IS USUALLY ONE OF ATTITUDE AND NOT ACCURACY, AND EACH
CONTAINS SOME VALUABLE OR INTERESTING INFORMATION.
THE REFERENCES ARE DIVIDED UNDER THESE HEADINGS:
GENERAL; RESERVOIRS AND DAMS; POWERPLANTS;
TURBINES AND PENSTOCKS; GENERATORS,
ELECTRICAL EQUIPMENT, AND TRANSMISSION
SYSTEMS; CONSTRUCTION MATERIALS AND
EQUIPMENTS; AND WELDING AND METALLURGY. THEY
ARE RELISTED UNDER HEADINGS OF BRATSK AND
KRASNOIARSK BY NUMBER, REFERRING TO THE REFERENCE
IN THE INITIAL MAIN CATEGORY. CONVERSION
MONOGRAPHS, ABBREVIATIONS AND ACRONYMS, AND A LIST OF
SOVIET TECHNICAL PERIODICALS ARE INCLUDED UNDER
MISCELLANEOUS AIDS. (U)

MATERIALS

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-403 765

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
EMBEDDING MATERIALS FOR MODULAR ASSEMBLIES: A
PARTIALLY ANNOTATED BIBLIOGRAPHY, (U)
MAR 63 YCP PIERCE, COMP. BY C.M.;
REPT. NO. 3 80 62 79;
CONTRACT: NORD17017

UNCLASSIFIED REPORT

DESCRIPTORS: • EMBEDDING SUBSTANCES, • BIBLIOG
RAPHIES, MODULES (ELECTRONIC), CONTAINERS,
PLASTICS, EPOXY PLASTICS, ISOCYANATE PLASTICS,
CATALYSTS, DIELECTRIC PROPERTIES, ELECTRICAL
PROPERTIES, ELECTRONIC EQUIPMENT. (U)

MODULAR PACKAGING OF ELECTRONICS ASSEMBLIES IS A
MEANS OF ENHANCING THE DEPENDABILITY OF EQUIPMENT
WHICH IS DESIGNED TO OPERATE IN EXTREME ENVIRON
MENTS. THE PROPER SELECTION OF A PLASTIC EMBED
DING MATERIAL FOR A PARTICULAR SITUATION IS,
THEREFORE, AN IMPORTANT ASPECT IN THE DESIGN OF
DEPENDABLE MODULES. THE PRIMARY PURPOSE OF THIS
BIBLIOGRAPHY IS THAT OF PROVIDING INFORMATION ON
MATERIALS WHICH CAN BE UTILIZED FOR THE EMBEDMENT OF
ELECTRONICS ASSEMBLIES. REFERENCES ARE ARRANGED
ALPHABETICALLY BY AUTHOR. SEPARATE INDEXES FOR
CORPORATE AUTHOR, SECONDARY AUTHOR, AND SUBJECT ARE
INCLUDED AT THE END OF THE BIBLIOGRAPHY. THE
PERIOD OF COVERAGE DATES FROM 1950 THROUGH JUNE
1962. THE SEARCH WAS COMPLETED IN AUGUST 1962.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-409 779

BATTELLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS
INFORMATION CENTER
DEFENSE METALS INFORMATION CENTER SELECTED
ACCESSIONS, (U)

IV PLATE, COMP. BY PATRICIA B.;

UNCLASSIFIED REPORT

DESCRIPTORS: METALS, BIBLIOGRAPHIES,
ALLOYS, COBALT ALLOYS, IRON ALLOYS, NICKEL
ALLOYS, STAINLESS STEEL, STEEL, BERYLLIUM,
MAGNESIUM, TITANIUM ALLOYS, CERAMIC MATERI
ALS, METALLIC TEXTILES, CUTTING TOOLS, MAG
NETIC ALLOYS, FRACTURE (MECHANICS), EXPLOSIVE
FORMING, COATINGS, GRAPHITE, REFRACTORY MA
TERIALS, NIOBIUM ALLOYS, MOLYBDENUM ALLOYS,
TANTALUM ALLOYS, VANADIUM ALLOYS, COMPOSITE
MATERIALS, NON-DESTRUCTIVE TESTING, GLASS
TEXTILES, HEAT RESISTANT METALS AND ALLOYS,
TEXTILES. (U)

IDENTIFIERS: EXPLOSIVE WELDING, WHISKERS. (U)

CONTENTS: AUTHOR INDEX; SUBJECT INDEX;
HIGH STRENGTH ALLOYS: COBALT BASE; NICKEL
BASE; ENGINEERING STEELS; STAINLESS STEELS; AND
IRON BASE. LIGHT METALS: BERYLLIUM;
TITANIUM; AND MAGNESIUM. NONMETALLICS:
CARBON, GRAPHITE; SPECIAL REFRACTORIES; AND
CERAMIC OXIDE. REFRACTORY METALS: COLUMBIUM;
CHROMIUM; MOLYBDENUM; TANTALUM; VANADIUM;
TUNGSTEN; AND PLATINUM GROUP. MISCELLANEOUS:
COATINGS; APPLICATIONS; AND COMPOSITES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-405 175

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA
LUBRICANTS AND LUBRICATION; A REPORT
BIBLIOGRAPHY

(U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR 1941-1963,
JUN 62 IV OGDWIN, COMPANY THOMAS C.;
ICHOLS, OWEN J.;

UNCLASSIFIED REPORT

DESCRIPTORS: *ABSTRACTS, *BIBLIOGRAPHIES,
*LUBRICANTS, *LUBRICATION, AIRPLANE ENGINE
OILS, ANTIFRICTION BEARINGS, ANTISEIZE COM
POUNDS, BALL BEARINGS, BEARINGS, CUTTING
FLUIDS, GAS BEARINGS, GREASES, JOURNAL BEARINGS,
LUBRICANT ADDITIVES, ROLLER BEARINGS, GYRO
SCOPES, THRUST BEARINGS, FRICTION, LOW TEMPERA
TURE LUBRICANTS, INSTRUMENT GREASES, SPACE
ENVIRONMENTAL CONDITIONS.

(U)

A COMPREHENSIVE BIBLIOGRAPHY, WITH ABSTRACTS, ON
LUBRICANTS AND LUBRICATION IS PRESENTED. REFER
ENCES SPAN FROM 1951 TO 1963 AND ARE RESTRICTED TO
THOSE IN THE DDC UNCLASSIFIED, UNLIMITED
COLLECTION. APPROXIMATELY 900 REFERENCES ARE
CITED. EMPHASIS WAS PLACED ON LUBRICANT APPLICA
TIONS, WITH BROAD COVERAGE. A CLASSIFIED VERSION
OF THIS BIBLIOGRAPHY WILL APPEAR AS A SEPARATE
DOCUMENT.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-407 519

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
THERMODYNAMIC PROPERTIES OF MOLYBDENUM AND
COLUMBIUM: AN ANNOTATED BIBLIOGRAPHY, (U)
JUN 63 76P GOLDMANN, COMP. BY JACK R.;
REPT. NO. REPT. NO. 5862 69;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: UNCLASSIFIED REPORT

DESCRIPTORS: •BIBLIOGRAPHIES, •HEAT RESISTANT
METALS AND ALLOYS, MOLYBDENUM, NIOBIUM, RE
FRACTERIALS, THERMODYNAMICS, HEAT OF FORMATION,
HEAT OF ACTIVATION, ENTROPHY, THERMAL
DIFFUSION, THERMAL CONDUCTIVITY, EMISSIVITY,
PHASE STUDIES, HYDROGEN, NITROGEN,
OXIDATION, ALLOYS. (U)

THE DATA WHICH ARE INCLUDED ENCOMPASS HEAT OF
FORMATION, ACTIVITY, ENTROPHY, DIFFUSION RATES AND
DIFFUSION CONSTANTS. IN ADDITION, REFERENCES TO
THE RESEARCH WHICH HAS BEEN DONE AND THE TESTS AND
INSTRUMENTATION IS NOTED. THE PERIOD COVERED BY
THIS BIBLIOGRAPHY IS 1924-1962, WITH SPECIAL EMPHASIS
ON THE LITERATURE PUBLISHED SINCE 1955. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-407 822

WATTLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS
INFORMATION CENTER
DEFENSE METALS INFORMATION CENTER SELECTED
ACCESSIONS.

(U)

MAY 63 52P PLATE, COMP. BY PATRICIA B. J

CONTRACT: AF33 616 7747

PROJ: 2 8 8975

UNCLASSIFIED REPORT

DESCRIPTORS: (*ABSTRACTS, MATERIALS), (*MATE
RIALS, ABSTRACTS), (*BIBLIOGRAPHIES,
MATERIALS), BERYLLIUM, TITANIUM, MAGNESIUM,
IRON ALLOYS, STAINLESS STEEL, NICKEL ALLOYS,
COBALT ALLOYS, REFRACTORY MATERIALS, CERAMIC
MATERIALS, NIOBIUM, MOLYBDENUM, TANTALUM,
VANADIUM, TUNGSTEN, COATINGS, COMPOSITE
MATERIALS, MECHANICAL PROPERTIES, BRAZING,
BONDING, DIFFUSION, WELDING.

(U)

IDENTIFIERS: 1963.

(U)

CONTENTS HIGH-STRENGTH ALLOYS COBALT BASE
NICKEL BASE ENGINEERING STEELS STAINLESS
STEELS IRON BASE LIGHT METALS BERYLLIUM
TITANIUM MAGNESIUM NONMETALLICS CARBON,
GRAPHITE SPECIAL REFRACTORIES CERAMIC OXIDE
REFRACTORY METALS COLUMBIUM MOLYBDENUM
TANTALUM VANADIUM TUNGSTEN MISCELLANEOUS
COATINGS APPLICATIONS COMPOSITES

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-40P 614

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
COMPOSITE MATERIALS: AN ANNOTATED BIBLIOGRAPHY,
SUPPLEMENT 1.

(U)

DESCRIPTIVE NOTE: REPT. FOR SEP 62-JUNE 63,

JUN 63 SUP ABBOTT, HELEN M. ;

REPT. NO. SB62 495 10 63 27

CONTRACT: SB62 49 5 10 63 27

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, COMPOSITE
MATERIALS), (COMPOSITE MATERIALS,
BIBLIOGRAPHIES), PLASTICS, FILAMENT WOUND
CONSTRUCTION, FIBERS, REINFORCING MATERIALS,
HIGH TEMPERATURE RESEARCH, COATINGS, METALS,
GLASS TEXTILES, METALLIC TEXTILES, REFRACTORY
MATERIALS, CERAMIC MATERIALS

(U)

IDENTIFIERS: 1963. WHISKERS

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-410 526

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
PHASE RELATIONSHIPS OF MOLYBDENUM, NIOBIUM AND
TUNGSTEN BORIDES, CARBIDES AND SILICIDES: AN
ANNOTATED BIBLIOGRAPHY,

(U)

MAY 63 82P GOLDMANN, COMP. BY JACK R.;
REPT. NO. SE63 9;

UNCLASSIFIED REPORT

DESCRIPTORS: (REFRACTORY MATERIALS, BIBLIOG
RAPHIES), (BIBLIOGRAPHIES, REFRACTORY MATERI
ALS), MOLYBDENUM COMPOUNDS, NIOBIUM COMPOUNDS,
TUNGSTEN COMPOUNDS, BORIDES, CARBIDES,
SILICIDES, PHASE STUDIES.

(U)

IDENTIFIERS: 1963.

(U)

THIS ANNOTATED BIBLIOGRAPHY EMPHASIZES PHASE
RELATIONSHIPS AND THEIR FABRICATION AS EVIDENCED IN
THE PHYSICAL PROPERTIES, REFRACTORIES, AND POWDER
METALLURGY OF MOLYBDENUM, NIOBIUM AND TUNGSTEN
COMPOUNDS WHICH ARE FORMED WITH BORON, CARBON AND
SILICON. THE PERIOD, 1955-1962, YIELDED THE
MAJORITY OF REFERENCES INCLUDED IN THIS BIBLIOGRAPHY.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-410 899

BATTELLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS
INFORMATION CENTER
DEFENSE METALS INFORMATION CENTER SELECTED
ACCESSIONS, (U)

JUN 63 22P PLATE, COMP. BY PATRICIA B.;

CONTRACT: AF33 616 7747

PROJ: 24 8977

UNCLASSIFIED REPORT

DESCRIPTORS: (MATERIALS, ABSTRACTS),
(BIBLIOGRAPHIES), TUNGSTEN ALLOYS, HEAT
RESISTANT METALS & ALLOYS, COBALT ALLOYS, NICKEL
ALLOYS, STEEL, STAINLESS STEELS, IRON ALLOYS,
BERYLLIUM, TITANIUM ALLOYS, MAGNESIUM,
GRAPHITE, CERAMIC MATERIALS, NICKEL, CREEP,
VANADIUM ALLOYS, SANDWICH CONSTRUCTION,
FATIGUE (MECHANICS), WELDING, HEAT TREATMENT,
MECHANICAL WORKING, ADHESIVES, EXTRUSION,
PLASTICS, COATINGS, NIOBIUM ALLOYS, CHROMIUM
ALLOYS, MOLYBDENUM ALLOYS, TANTALUM ALLOYS (U)
IDENTIFIERS: 1963, FIBER METALLURGY, WHISKERS. (U)

CURRENT LISTING OF SELECTED DOCUMENTS AND JOURNAL
ARTICLES ON SUBJECTS WITHIN THE TECHNICAL SCOPE OF THE
DEFENSE METALS INFORMATION CENTER.

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-412 936

WATTELLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS
INFORMATION CENTER

DEFENSE METALS INFORMATION CENTER SELECTED
ACCESSIONS,

(U)

JUL 63 67P PLATE, COMP. BY PATRICIA B. I

CONTRACT: AF33 616 7747

PROJ: 2 B 4975

UNCLASSIFIED REPORT

DESCRIPTORS: (METALS, ABSTRACTS), (ALLOYS,
ABSTRACTS MATERIALS, ABSTRACTS), (BIBLIOG
RAPHIES, MATERIALS), MECHANICAL WORKING,
MECHANICAL PROPERTIES, PHYSICAL PROPERTIES,
HEAT TREATMENT, COBALT ALLOYS, NICKEL ALLOYS,
STEEL, STAINLESS STEEL, IRON ALLOYS,
BERYLLIUM, TITANIUM, MAGNESIUM, SILICON,
GRAPHITE, COMPOSITE MATERIALS, REFRACTORY
MATERIALS, CERAMIC MATERIALS, REFRACTORY METALS
AND ALLOYS, NIOBIUM, CHROMIUM, MOLYBDENUM,
RHENIUM, TANTALUM, VANADIUM, TUNGSTEN,
PLATINUM, COATINGS, MANUFACTURING METHODS.

(U)

IDENTIFIERS: 1963.

(U)

ABSTRACTS OF DEFENSE METALS INFORMATION CENTER
SELECTED ACCESSIONS: HIGH STRENGTH ALLOYS, LIGHT METALS,
NONMETALLICS, REFRACTORY METALS, COMPOSITE MATERIALS,
COATINGS AND MANUFACTURING METHODS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-417 111

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA
LIQUID METALS, LIQUID METAL ALLOYS AND THEIR
APPLICATIONS.

(U)

DESCRIPTIVE NOTE: A REPT. BIBLIOGRAPHY,
SEP 62 IV MUCCINO, COMP. BY ANGELO ;

UNCLASSIFIED REPORT

DESCRIPTORS: (*BIBLIOGRAPHIES, LIQUID METALS),
(*LIQUID METALS, BIBLIOGRAPHIES), (*ABSTRACTS,
LIQUID METALS), HEAT TRANSFER, THERMODYNAMICS,
PHYSICAL PROPERTIES, ELECTRICAL PROPERTIES,
CORROSION, HYDRAULIC FLUIDS, HANDLING,
HAZARDS, ALLOYS, FLUID MECHANICS, MECHANICAL
PROPERTIES, POWER, CHEMICAL PROPERTIES,
COOLANTS, COOLING, ELECTROCHEMISTRY, DESIGN,
HANDBOOKS, LUBRICANTS, LUBRICATION, SEALS
(STOPPERS), SURFACE PROPERTIES, TRANSPORT
PROPERTIES.

(U)

IDENTIFIERS: 1962, HEAT EXCHANGERS, THERMAL
PROPERTIES.

(U)

BIBLIOGRAPHY. LIQUID METALS, LIQUID METAL ALLOYS AND
THEIR APPLICATIONS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-718 119

PRINCETON UNIV N J PLASTICS LAB

INDEX OF TECHNICAL REPORTS AND PUBLICATIONS.

(U)

JUL 63 10P

UNCLASSIFIED REPORT

DESCRIPTORS: (*BIBLIOGRAPHIES, *PLASTICS),

(*INDEXES, PLASTICS), POLYMERS, REPORTS

(U)

IDENTIFIERS: 1963.

(U)

INDEX OF TECHNICAL REPORTS AND PUBLICATIONS FROM THE
PRINCETON UNIVERSITY PLASTICS LABORATORY.

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-420 039

BATTELLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS
INFORMATION CENTER

DEFENSE METALS INFORMATION CENTER SELECTED
ACCESSIONS,

(U)

SEP 62 45P BANKS, MARY F. ;
CONTRACT: AF33 616 7747

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, MATERIALS),
(MATERIALS, BIBLIOGRAPHIES), ALLOYS, METALS,
REFRACTORY MATERIALS, CERAMIC MATERIALS, REFRACTORY
METALS AND ALLOYS, ALUMINUM, BERYLLIUM, MAGNESIUM,
TITANIUM, CHROMIUM, MOLYBDENUM, NIOBIUM, TANTALUM,
TUNGSTEN, STEEL, COBALT ALLOYS, NICKEL ALLOYS, IRON
ALLOYS, STAINLESS STEEL, COATINGS, COMPOSITE
MATERIALS

(U)

IDENTIFIERS: 1962

(U)

UNCLASSIFIED

DIC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-422 417

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA
O-RINGS. A DIC REPORT BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR MAR 53-FEB 62,
NOV 62 IV GOODWIN, THOMAS C. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*RUBBER SEALS, BIBLIOGRAPHIES), (*SEALS
(STOPPERS), BIBLIOGRAPHIES), (*BIBLIOGRAPHIES, SEALS
(STOPPERS)), FUEL SEALS, HYDRAULIC SEALS, OIL SEALS,
GAS SEALS, METAL SEALS, AGING (MATERIALS), CRYOGENICS,
COMPATIBILITY, FRICTION, GUIDED MISSILES, GUNS, ROTARY
SEALS, WAVEGUIDES, SUBMARINES, HANDBOOKS (U)
IDENTIFIERS: 1962, O RINGS (U)

INFORMATION ON SEALS FOR PROPULSION POWER
TRANSMISSION; SPACECRAFT-, FUEL-; AND HYDRAULIC
SYSTEMS IS PRESENTED. DESIGN SPECIFICATIONS FOR
EXTREME TEMPERATURES, PRESSURES, AND SPACE
ENVIRONMENTAL CONDITIONS ARE GIVEN. SUBJECTS
PRESENTED IN THIS BIBLIOGRAPHY INCLUDE REFERENCES TO
DESIGN, CONFIGURATION, AND PROPERTIES OF O-RING
SEALS AS APPLIED TO GUIDED MISSILES, SUBMARINES,
GUNS, AND ELECTRICAL EQUIPMENT. SIXTYEIGHT
REFERENCES CITED COVER A PERIOD FROM MARCH 1952 TO
FEBRUARY 1962. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000250

AD-422 769

BATTELLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS
INFORMATION CENTER

DEFENSE METALS INFORMATION CENTER SELECTED

ACCESSIONS,

OCT 63

45P

HANKS, MARY F. ;

(U)

CONTRACT: AF33 516 7747

PROJ: 2 8 8975

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*METALS, BIBLIOGRAPHICS),
(*BIBLIOGRAPHIES, METALS), ALLOYS, REFRACTORY
MATERIALS, REFRACTORY METALS + ALLOYS, ALUMINUM,
BERYLLIUM, TITANIUM, COBALT ALLOYS, NICKEL ALLOYS,
IRON ALLOYS, STAINLESS STEEL, STEEL, CARBON, GRAPHITE,
OXIDES, COMPOSITE MATERIALS, COATINGS, ABSTRACTS,
INDEXES

IDENTIFIERS: 1963

(U)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AJ-423 56J

PLASTICS TECHNICAL EVALUATION CENTER DOVER N J
SUBJECT INDEX, BIBLIOGRAPHY, AND CODE DESCRIPTION OF
TECHNICAL CONFERENCE PAPERS ON PLASTICS: 10 FEBRUARY
1962-10 FEBRUARY 1963, (U)

AUG 63 100P MOLZON, ARNOLD E. ;

MONITOR: PTEC 14

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SYMPOSIA, INDEXES), (*INDEXES,
SYMPOSIA), (*PLASTICS, SYMPOSIA), (*BIBLIOGRAPHIES,
SYMPOSIA), MANUFACTURING METHODS, PROCESSING,
INFORMATION RETRIEVAL, CHEMICAL PROPERTIES, PHYSICAL
PROPERTIES, MECHANICAL PROPERTIES (U)
IDENTIFIERS: 1963 (U)

THE PAPERS PRESENTED AT THE TECHNICAL CONFERENCES
ON PLASTIC MATERIALS AND RELATED TECHNOLOGY WITHIN A
ONE-YEAR PERIOD ENDING 10 FEBRUARY 1963, HAVE BEEN
LISTED AND INDEXED BY SUBJECT. OVER 500 PAPERS FROM
22 CONFERENCES ARE COVERED. THIS REPORT SERVES AS A
GUIDE TO THE SUBJECTS PRESENTED, AND BY MEANS OF A
NUMERICAL CODE SYSTEM, IT TELLS THE READER WHAT TYPE
OF INFORMATION EACH ARTICLE CONTAINS. INCLUDED ARE
A BIBLIOGRAPHY AND LISTS OF REFERENCES THERETO, ON
PLASTIC MATERIALS AND TECHNICAL DATA. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-424 1197

BATTELLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS
INFORMATION CENTER
CREEP OF COLUMBIUM ALLOYS, (U)

28P BARTLETT, E. S. ; VANECHO, J.

A. I.

REPT. NO. M170

CONTRACT: AF33 616 7747

PROJ: 2 8 8975

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (COLUMBIUM ALLOYS, CREEP), (CREEP,
NI OBIUM ALLOYS), DEFORMATION, STRESSES, HIGH-
TEMPERATURE RESEARCH, RUPTURE, TIME, STRAIN
(MECHANICS), ENVIRONMENTAL TESTS, VACUUM, ADDITIVES,
DATA, BIBLIOGRAPHIES, REVIEWS (U)

IDENTIFIERS: 1962, INTERSTITIAL ELEMENTS, NB-12R,
FS42, A 555, F-48, FS-85, D-31, CB752, E-66, B72,
SCB291, C129, D24 (U)

ALTHOUGH MUCH INFORMATION ON HIGH-TEMPERATURE
TENSILE AND STRESS-RUPTURE PROPERTIES FOR VARIOUS
COLUMBIUM-BASE MATERIALS IS READILY AVAILABLE, ONLY
LIMITED INFORMATION CONCERNING THE MORE USEFUL CREEP
BEHAVIOR OF COLUMBIUM ALLOYS HAS BEEN REPORTED.
THESE DATA ARE WIDELY SCATTERED THROUGHOUT THE
LITERATURE, AND LITTLE ATTEMPT HAS BEEN MADE TO
RATIONALIZE THE CREEP BEHAVIOR OF COLUMBIUM ALLOYS.
THE PURPOSE OF THIS MEMORANDUM IS TO COMPIL E AND
REVIEW EXISTING CREEP DATA FOR COLUMBIUM ALLOYS TO
GAIN INSIGHT INTO THEIR MERITS AND LIMITATIONS FOR
TIME-DEPENDENT STRUCTURAL SERVICE. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-424 554

SATTELLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS
INFORMATION CENTER
DEFENSE METALS INFORMATION CENTER SELECTED
ACCESSIONS. (U)

NOV 63 J64 PANKS, MARY F. ;

CONTRACT: AF33 616 7747

PRJ: 2 8 8972

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (METALS, ABSTRACTS), (ABSTRACTS,
METALS), (BIBLIOGRAPHIES, METALS), METALLIC TEXTILES,
PLATINUM, POWDER METALLURGY, SHEET, ZONE MELTING,
MECHANICAL PROPERTIES, CRYSTAL LATTICE DEFECTS, HIGH
TEMPERATURE RESEARCH, COMPOSITE MATERIALS,
MANUFACTURING METHODS, COBALT ALLOYS, NICKEL ALLOYS,
STEEL, COATINGS, CORROSION, MATERIAL FORMING,
TUNGSTEN, TOOL STEEL, STAINLESS STEEL, IRON ALLOYS,
BERYLLIUM, TITANIUM, MAGNESIUM, ALUMINUM, CERAMIC
MATERIALS, REFRACTORY METALS + ALLOYS, NIUBIUM,
MOLYBDENUM, TANTALUM, VANADIUM (U)

IDENTIFIERS: 1963, DEFENSE METALS INFORMATION
CENTER, WHISKERS, FIBER METALLURGY (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-429 952

CALIFORNIA UNIV BERKELEY INST OF ENGINEERING
RESEARCH

CRITICAL COMPILATION OF CERAMIC FORMING METHODS. (U)

DESCRIPTIVE NOTE: FINAL REPT., APR-SEP 62.

SEP 62 415P

REPT. NO. MT63 12

CONTRACT: AF33 657 10974

PROJ: 7381

TASK: 738105

MONITOR: RTU TOR63 4069

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT ON MATERIALS APPLICATION.

DESCRIPTORS: (CERAMIC MATERIALS, MATERIAL
FORMING), (MATERIAL FORMING, CERAMIC MATERIALS),
REVIEWS, BIBLIOGRAPHIES, PROCESSING, PARTICLES,
PREPARATION, HEAT TREATMENT, SOLIDS, LIQUIDS,
VAPORS, FILMS, FIBERS, SINGLE CRYSTALS,
GLASS, SOLUTIONS, FLAME SPRAYING, COLD
WORKING, HOT WORKING, MELTING, SINTERING,
MOLDING, CASTING, EXTRUSION,
HYDROFORMING (MECHANICS), VIBRATION, MACHINING,
ELECTROPHORESIS, FOAMS, IMPREGNATION, VAPOR
PLATING, EXPLOSIVE FORMING (U)

IDENTIFIERS: 1952 (U)

CRITICAL REVIEWS OF CERAMIC FORMING METHODS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-425 922

RATTLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS
INFORMATION CENTER

SHORT-TIME TENSILE PROPERTIES OF THE CO-20CR15W-1-NI
COBALT-BASE ALLOY (L-605), (U)

SEP 63 142P SLUNDER, C. J. ;

REPT. NO. M170

CONTRACT: AF33 61A 7747

PROJ: 7 8 1975

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (COBALT ALLOYS, TENSILE PROPERTIES),
(METAL JOINTS, COBALT ALLOYS), CHROMIUM ALLOYS,
NICKEL ALLOYS, TUNGSTEN ALLOYS, METAL PLATES, SHEETS,
FOILS, RODS, WIRE, CRYOGENICS, LOW TEMPERATURE
RESEARCH, HIGH TEMPERATURE RESEARCH, AGING
(MATERIALS), COLD WORKING, HARDNESS, DUCTILITY, HEAT
TREATMENT, WELDS, SOLDERED JOINTS, ARE WELDS,
ELASTICITY, BIBLIOGRAPHIES, REVIEWS (U)

IDENTIFIERS: 1963, CO-20CP-15W-10N1 ALLOY (L-605) (U)

IN VIEW OF THE INTEREST IN THE CO-20CR-15W-
10N1 ALLOY, IT APPEARED DESIRABLE TO ASSEMBLE INTO
ONE DOCUMENT THE INFORMATION ON THE MECHANICAL
PROPERTIES OF THE ALLOY FROM REPORTS AND OTHER
LITERATURE IN THE FILES OF THE DEFENSE METALS
INFORMATION CENTER. IN THIS MEMORANDUM, DATA
HAVE BEEN SELECTED, COVERING ONLY THE SHORT-TIME
TENSILE PROPERTIES OF CO-20CR-15W-10N1.

THESE DATA HAVE BEEN ASSEMBLED UNDER FOUR GENERAL
HEADINGS (1) ROOM-TEMPERATURE TENSILE PROPERTIES,
(2) SHORT-TIME ELEVATED-TEMPERATURE TENSILE
PROPERTIES, (3) TENSILE PROPERTIES OF WELDED AND
BRAZED JOINTS, AND (4) TENSILE PROPERTIES AT
CRYOGENIC TEMPERATURES. (AUTHOR) (U)

UNCLASSIFIED

DGC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-424 011

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
ABNORMAL GRAIN GROWTH IN ALUMINUM AND ITS ALLOYS:
AN ANNOTATED BIBLIOGRAPHY, (U)

13P GROS, CHARLES G. ;

REPT. NO. 5 73 63 4 ,SR363 3

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ALUMINUM, GRAIN STRUCTURES
(METALLURGY)), (ALUMINUM ALLOYS, GRAIN STRUCTURES
(METALLURGY)), (BIBLIOGRAPHIES, GRAIN STRUCTURES
(METALLURGY)), HEAT TREATMENT, STRAIN (MECHANICS),
MECHANICAL WORKING, ADDITIVES, CRYSTAL GROWTH,
CRYSTALLIZATION, RECRYSTALLIZATION (U)

IDENTIFIERS: 1963 (U)

THIS WORK DEALS WITH ABNORMAL GRAIN GROWTH IN
ALUMINUM AND ITS ALLOYS IN THE FIELD OF CRITICAL
STRAINING AND THERMAL TREATMENT. MATERIAL ON THE
PREVENTION OF SUCH GROWTH BY 'SEEDING' ALUMINUM
ALLOYS WITH INTERMETALLICS IS INCLUDED, AS IS
MATERIAL ON OTHER NEW PREVENTION TECHNIQUES. THE
PERIOD COVERED IS FROM 1950 THROUGH MAY 1963.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-426 265

WATERVLIET ARSENAL N Y

WHISKERS AND WHISKER-STRENGTHENED COMPOSITE
MATERIALS, (U)

OCT 63 35P SALKIND, M. J. :

PROJ: IFS 23801A289 01

MONITOR: WVT RR6315

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (COMPOSITE MATERIALS, REINFORCING
MATERIALS), (FIBERS, CRYSTAL GROWTH), PRODUCTIONS,
VAPORS, METALS, GRAPHITE, CERAMIC FIBERS, THEORY,
MECHANICAL PROPERTIES, TEST EQUIPMENT, BIBLIOGRAPHIES,
REVIEWS (U)

IDENTIFIERS: 1963, WHISKERS (U)

THIS REPORT REPRESENTS THE RESULTS OF A LITERATURE
SURVEY IN THE FIELD OF WHISKERS AND
WHISKERSTRENGTHENED COMPOSITES. SUBJECTS INCLUDED
ARE: EXPERIMENTAL TECHNIQUES FOR PRODUCING
WHISKERS, WHISKER GROWTH MECHANISMS,
MECHANICAL BEHAVIOR OF WHISKERS, COMPOSITE
MATERIALS, AND RESEARCH TECHNIQUES UNIQUE TO
WHISKERS. (AUTHOR) (U)

UNCLASSIFIED

DMC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-426 732

BATTELLE MEMORIAL INST COLUMBUS OHIO
DEFENSE METALS INFORMATION CENTER SELECTED
ACCESSIONS.

(U)

DEC 63 47P BANKS, COMP. BY MARY F. J
CONTRACT: AF33 616 7747
PROJ: 2 6 8975

UNCLASSIFIED REPORT

DESCRIPTORS: (BIBLIOGRAPHIES, MATERIALS),
(MATERIALS, BIBLIOGRAPHIES), ALLOYS, METALS,
CERAMIC MATERIALS, COMPOSITE MATERIALS, COAT
INGS, MECHANICAL PROPERTIES, PHYSICAL PROP
ERTIES, TEST METHODS, REFRACTORY MATERIALS,
MATERIAL FORMING, ABSTRACTS.

(U)

IDENTIFIERS: 1963.

(U)

ANNOTATED BIBLIOGRAPHY OF SELECTED ACCESSIONS OF DMIC ON
METAL AND NONMETAL MATERIALS.

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-427 992

ALLEGHENY LUDLUM STEEL CORP BRACKENRIDGE PA
TANTALUM ALLOY TUBING DEVELOPMENT PROGRAM. (U)
DESCRIPTIVE NOTE: INTERIM TECHNICAL ENGINEERING REPT. NO.
1, 1 JULY-30 SEP 63,
OCT 63 IV TURNER, F. S. ;
CONTRACT: AF33 657 11261
PROJ: 8 109
MONITOR: RTD TRH 109, VOL. 1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*TANTALUM ALLOYS, PIPES), (*PIPES,
MATERIAL FORMING), NUCLEAR PROPULSION, AUXILIARY POWER
PLANTS, LIQUID METAL COOLED REACTORS, THERMIONIC
CONVERTERS, HEAT EXCHANGERS, THERMOCOUPLES, REACTOR
FUEL CLODDING, REACTOR MATERIALS, ROCKET MOTOR
NOZZLES, POWDER METALLURGY, MELTING, FORGING,
EXTRUSION, WELDING, BIBLIOGRAPHIES, REVIEWS,
MECHANICAL PROPERTIES (U)
IDENTIFIERS: 1963 (U)

A STATE-OF-THE-ART ANALYSIS HAS BEEN COMPLETED
COVERING POTENTIAL APPLICATION FOR, DOMESTIC AND
FOREIGN TECHNOLOGY USED IN THE PRODUCTION OF, AND A
REVIEW OF MECHANICAL AND PHYSICAL PROPERTY DATA ON
TANTALUM ALLOY TUBING. USAGE WAS MADE OF A
QUESTIONNAIRE, PERSONAL VISITATIONS AND CONTACTS, AND
A REVIEW OF DOMESTIC AND FOREIGN LITERATURE. THE
SURVEY REVEALED THAT THE PRIMARY POTENTIAL
UTILIZATION OF TANTALUM ALLOY TUBING IS IN NUCLEAR
AEROSPACE PROPULSION AND AUXILIARY POWER SYSTEMS.
THE PROPOSED PROGRAM FOR PHASES II, III AND
IV IS SUBMITTED. (AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-420 908

HARRY DIAMOND LABS WASHINGTON D C

FRETTING CORROSION. A LITERATURE SURVEY. (U)

DEC 63 98P COMYN, RAYMOND H. ;

FURLANI, CITA WRIGHT ;

PROJ: 46300

MONITOR: HDL TRI169

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (CORROSION, JOINTS), (BEARINGS, CORROSION), (METAL JOINTS, CORROSION), FRICTION, DAMAGE, FATIGUE (MECHANICS), VIBRATION, REVIEWS, BIBLIOGRAPHIES, SURFACE PROPERTIES, THEORY, ELECTRICAL PROPERTIES, LUBRICANTS, PROTECTIVE TREATMENTS, TEST METHODS, METALS, MATERIALS (U)
IDENTIFIERS: 1963, FRETTING CORROSION (U)

DATA FROM OVER 200 REPORTS FROM THE ENGLISH LITERATURE ON FRETTING CORROSION WERE SUMMARIZED FOR READY REFERENCE--FOR ENGINEERS WHO MUST CONSIDER ITS EFFECT IN DESIGNING MECHANICAL AND ELECTRICAL DEVICES AND FOR SCIENTISTS WHO MAY WISH TO INVESTIGATE THE UNDERLYING MECHANISM. THE ACTUAL WEAR, FRICTIONAL CHANGES, VARIATIONS IN ELECTRICAL RESISTANCES AND ELECTRICAL NOISE, AND FATIGUE DUE TO FRETTING ARE DESCRIBED TO ACQUAINT THE DESIGNER WITH DIFFICULTIES TO BE ANTICIPATED FROM THIS PROBLEM. FACTORS AFFECTING FRETTING, ITS EFFECT ON THE FATIGUE STRENGTH OF MATERIALS AND METHODS OF PREVENTING IT ARE DISCUSSED. THE MAIN THEORIES THAT HAVE BEEN PROPOSED TO EXPLAIN FRETTING CORROSION AND TEST METHODS THAT HAVE BEEN USED TO STUDY IT ARE REVIEWED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-420 910

NAVAL CIVIL ENGINEERING LAB PORT HUENEME CALIF
ACCELERATED TESTING OF PAINTS, (U)

DEC 63 24P HEARST, PETER J. ;

REPT. NO. NCEL-TN-549

PROJ: Y-FO15-U6-06-902

UNCLASSIFIED REPORT

DESCRIPTORS: (*PAINTS, PERFORMANCE (ENGINEERING)),
(*PERFORMANCE (ENGINEERING), BIBLIOGRAPHIES),
(*DEGRADATION, PAINTS), HUMIDITY, SALT SPRAY TESTS,
CORROSION, CAPACITANCE, RESISTANCE (ELECTRICAL) (U)

IDENTIFIERS: 1963, ACCELERATED TESTING (U)

RESULTS OF A LITERATURE SEARCH OF ACCELERATED
METHODS OF TESTING PAINTS ARE PRESENTED AND
DISCUSSED. EMPHASIS IS PLACED ON COATINGS APPLIED
TO STEEL SURFACES. NO ACCELERATED TEST METHODS ARE
AVAILABLE FOR PREDICTING RELIABLY THE SERVICE
PERFORMANCE OF PAINTS. SOME METHODS HAVE LIMITED
USEFULNESS IN INDICATING PROBABLE PERFORMANCE.
(AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-431 603

PLASTICS TECHNICAL EVALUATION CENTER DOVER N J
FLUIDIZED-BED COATING WITH PLASTICS; TECHNOLOGY AND
POTENTIAL FOR MILITARY APPLICATIONS, (U)

JAN 64 223P LANDROCK, ARTHUR H. ;
REPT. NO. 13

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (PLASTIC COATINGS, MANUFACTURING
METHODS), (MANUFACTURING METHODS, PLASTIC COATINGS),
PROCESSING, PRODUCTION, CORROSION INHIBITION, ELECTRIC
INSULATION, LUBRICATION, SOURCES, INDUSTRIAL
EQUIPMENT, BIBLIOGRAPHIES, ABSTRACTS, INDEXES,
PATENTS (U)

IDENTIFIERS: 1964, FLUIDIZED BED (U)

THIS REPORT ON THE RELATIVELY NEW FIELD OF
FLUIDIZED-BED COATING WITH PLASTICS IS INTENDED TO
GIVE MILITARY AGENCIES AND CONTRACTORS A GOOD IDEA OF
THE POSSIBILITIES AND LIMITATIONS OF THE TECHNIQUE.
IN THE NORMAL USE OF THE PROCESS A METAL PART IS
HEATED TO A TEMPERATURE SOMEWHAT HIGHER THAN THE
MELTING POINT OF THE RESIN POWDER WITH WHICH IT IS TO
BE COATED. UPON IMMERSION OF THE PREHEATED METAL
PART INTO A BED OR BATH OF RESIN POWDER, USUALLY KEPT
AT ROOM TEMPERATURE AND FLUIDIZED BY A CURRENT OF
AIR, THE POWDER PARTICLES ARE FUSED ONTO THE SURFACE
OF THE PART. POSTHEATING MAY OR MAY NOT BE
NECESSARY TO SMOOTH AND/OR CURE THE COATING. THIS
REPORT HAS DETAILED INFORMATION ON 139 REFERENCES,
INCLUDING 39 FOREIGN AND AMERICAN PATENTS.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-437 321

NAVAL RESEARCH LAB WASHINGTON D C

STRESS-CORROSION CRACKING AND RELATED PHENOMENA IN
HIGH-STRENGTH STEELS. A REVIEW OF THE PROBLEM, WITH
AN ANNOTATED BIBLIOGRAPHY, (U)

NOV 63 29P BROWN, B. F. ;

TASK: R05 246

MONITOR: NRL 6041

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*STEEL, FRACTURE (MECHANICS)),
(*STRESSES, CORROSION), REVIEWS, HYDROGEN
EMBRITTLMENT, ELECTROCHEMISTRY, THEORY, TOUGHNESS,
BRITTLNESS, TEMPERATURE, TRANSITION TEMPERATURE, TEST
METHODS, BIBLIOGRAPHIES (U)

IDENTIFIERS: 1963 (U)

THE PROBLEM OF THE STRESS-CORROSION CRACKING OF
HIGH-STRENGTH STEELS IN CONTRASTED WITH STRESS
CORROSION IN OTHER METALS. THE IMPLICATIONS OF
HYDROGEN EMBRITTLMENT AND ESPECIALLY OF BRITTLE
FRACTURE TO INTERPRETATIONS OF STRESS-CORROSION
CRACKING TESTS ON HIGH-STRENGTH STEELS ARE
SUMMARIZED. TEST METHODS ARE BRIEFLY DESCRIBED,
AND THE RESULTS OF RECENT STUDIES AS REPORTED IN THE
LITERATURE ARE SUMMARIZED TOPICALLY. A DISCUSSION
OF THE MEANING OF THESE FINDINGS IS GIVEN, TOGETHER
WITH RECOMMENDATIONS REGARDING THE FURTHER
DEVELOPMENT OF TEST CONCEPTS. AN ANNOTATED
BIBLIOGRAPHY OF THIRTY-SIX ENTRIES IS APPENDED.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-432 503

ROCK ISLAND ARSENAL ILL
RUST REMOVING CORROSION PREVENTIVES - LITERATURE
REPORT, (U)

AUG 63 42P BORNONG, BERNARD J. ;
PROJ: IAD 24401A109
MONITOR: RIAL 63 2762

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (CLEANING COMPOUNDS, MATERIALS),
(CORROSION INHIBITION, MATERIALS), ACIDS, BASES
(CHEMISTRY), ABRASIVE BLASTING, CLEANING,
SPECIFICATIONS, PERIODICALS, PATENTS, TABLES, REPORTS,
BIBLIOGRAPHIES, CORROSION, ELECTROCHEMISTRY, IRON
COMPOUNDS, OXIDES, PRESERVATION, SOLVENTS (U)
IDENTIFIERS: 1963 (U)

A SURVEY OF THE LITERATURE ON RUST REMOVAL AND PREVENTION WAS CONDUCTED TO (A) DETERMINE THE STATUS OF MATERIALS USED FOR THESE PURPOSES AND (B) CONSIDER THE FEASIBILITY OF DEVELOPING A COMBINATION, READILY REMOVABLE, OIL OR SOLVENTSOLUBLE RUST REMOVER AND PREVENTIVE. AT PRESENT, NO COMBINATION PRODUCT OF THIS TYPE IS AVAILABLE WHICH IS A COMPLETELY EFFECTIVE RUST REMOVER AND PREVENTIVE. PRODUCTS ARE AVAILABLE, HOWEVER, WHICH, DURING A SUITABLE CONDITIONING PERIOD, PENETRATE AND LOOSEN RUST TO MAKE IT MORE READILY REMOVABLE. THESE PRODUCTS ALSO PROTECT AGAINST CORROSION. DEVELOPMENT OF A PRODUCT WHICH NOT ONLY LOOSENS RUST, BUT ALSO REMOVES IT, IS THE NEXT LOGICAL STEP. IT IS RECOMMENDED THAT SUCH AN ATTEMPT BE MADE. SEVERAL AREAS FOR INTENSIVE STUDY, WHICH MAY AID IN THIS DEVELOPMENT, ARE SUGGESTED. (AUTHOR) (U)

UNCLASSIFIED

DEC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000250

AD-423 573

NORTH AMERICAN AVIATION INC DOWNEY CALIF
AEROSPACE CORROSION AND MOISTURE PROBLEMS: A REVIEW
OF THE RESEARCH REPORTS, (U)

JAN 64 259P LINGFR, J. R. ;

REPT. NO. SID54 11

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, CORROSION),
(CORROSION, BIBLIOGRAPHIES), MOISTURE, CORROSIVE
GASES, CORROSIVE LIQUIDS, ELECTROLYTIC CELLS,
AEROSPACE CRAFT (U)

IDENTIFIERS: 1964 (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-423 653

SYLVANIA ELECTRONIC SYSTEMS-WEST MOUNTAIN VIEW CALIF
ELECTRONIC DEFENSE LABS
FERROELECTRIC BIBLIOGRAPHY SUPPLEMENT, (U)

AUG 63 90P HALL, ROBERT D. ;
REPT. NO. M557
CONTRACT: DA28 039AMC00086F

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, FERROELECTRIC
MATERIALS), (FERROELECTRIC MATERIALS,
BIBLIOGRAPHIES), OXIDES, PHOSPHATES, SULFATES,
TITANATES, SELENIDES, SINGLE CRYSTALS, CERAMIC
MATERIALS, CRYSTAL GROWTH, THEORY, DIELECTRIC
PROPERTIES, ELECTRICAL PROPERTIES, PIEZOELECTRIC
EFFECT, OPTICAL PROPERTIES, PHYSICAL PROPERTIES (U)
IDENTIFIERS: 1463 (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-426 176

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
BERYLLIUM: AN ANNOTATED BIBLIOGRAPHY OCTOBER
DECEMBER 1962, SUPPLEMENT III.

(U)

APR 63 58P GOLDMANN, JACK R. ;

REPT. NO. 3 80 62 2 ,5862 22

CONTRACT: NOR017017

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BERYLLIUM, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, BERYLLIUM), ABSTRACTS, BERYLLIUM
ALLOYS, BERYLLIUM COMPOUNDS, CORROSION, MANUFACTURING
METHODS, JOINING, POWDER METALLURGY, CASTING,
PROCESSING, PHYSICAL PROPERTIES, MECHANICAL
PROPERTIES

(U)

IDENTIFIERS: BERYLLIUM OXIDE

(U)

THIS ANNOTATED BIBLIOGRAPHY COVERS PUBLICATIONS
RELEASED DURING THE FOURTH QUARTER OF 1962.
CITATIONS ARE ARRANGED ALPHABETICALLY BY AUTHOR
UNDER THE BROAD SUBJECT HEADINGS OF ALLOYS;
ANALYSIS; APPLICATIONS; BIBLIOGRAPHIES;
COMPOUNDS; CORROSION; FABRICATION TECHNIQUES;
JOINING; MINERALOGY; OXIDES; POWDER
METALLURGY; AND CASTING; PROCESSING,
PROPERTIES AND MISCELLANEOUS. REFERENCE TO THE
USE OF BERYLLIUM FUELS, NUCLEAR REACTOR APPLICATIONS,
EFFECTS OF RADIATION, AND CU-BE ALLOYS ARE
OMITTED. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-439 443

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
NICKEL-IRON PERMALLOY FILMS: AN ANNOTATED
BIBLIOGRAPHY.

(U)

SEP 63 69P GOLDMAN, JACK B. ;

REPT. NO. 3 26 63 6 ,S963 62

CONTRACT: NOW62 0363

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BIBLIOGRAPHIES, METAL FILMS), (•METAL
FILMS, BIBLIOGRAPHIES), IRON ALLOYS, NICKEL ALLOYS,
MATERIAL FORMING, MAGNETIC ALLOYS, ABSTRACTS, INDEXES,
THIN FILMS (STORAGE DEVICES), VAPOR PLATING (U)
IDENTIFIERS: PERMALLOY (U)

THE CORE OF REFERENCES WITH WHICH THIS ANNOTATED
BIBLIOGRAPHY IS CONCERNED CONSISTS OF ENTRIES
PERTAINING TO THE MAKING OF IRON FILMS, NICKEL FILMS,
NICKEL-IRON OR PERMALLOY FILMS BY MEANS OF THERMAL
DECOMPOSITION OF THE CARBONYLS, REDUCTION OF THE
HALIDES OR OTHER METHODS. THE USE OF HIGH VACUUM
TECHNIQUES IS OMITTED. THE PERIOD, 1958-JULY
1963 IS COVERED BY THE CONTENTS. THE RESOURCES OF
LOCKHEED MISSILES AND SPACE COMPANY
TECHNICAL INFORMATION CENTER WERE UTILIZED IN
THE PREPARATION OF THIS BIBLIOGRAPHY. (AUTHOR)

(U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-439 444

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
BERYLLIUM: A SURVEY OF THE LITERATURE JANUARY-JUNE
1963: AN ANNOTED BIBLIOGRAPHY,

(U)

JUL 63 76P GOLDMANN, JACK B. ;

REPT. NO. 3 60 63 5 ,SB63 54

CONTRACT: NCRD17017

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BERYLLIUM, BIBLIOGRAPHIES),
(•BERYLLIUM ALLOYS, BIBLIOGRAPHIES), (•BERYLLIUM
COMPOUNDS, BIBLIOGRAPHIES), (•BIBLIOGRAPHIES,
BERYLLIUM), CHEMICAL ANALYSIS, STRUCTURAL PARTS,
SHEETS, SINGLE CRYSTALS, INTERMETALLIC COMPOUNDS,
MANUFACTURING METHODS, METALLURGY, POWDER METALLURGY,
OXIDES

(U)

IDENTIFIERS: BERYLLIUM OXIDE

(U)

THE FOLLOWING ANNOTATED BIBLIOGRAPHY COVERS
PUBLICATIONS RELEASED DURING THE FIRST SIX MONTHS OF
1963. CITATIONS ARE ARRANGED ALPHABETICALLY BY
AUTHOR UNDER BROAD SUBJECT HEADINGS OF ALLOYS;
ANALYSIS; APPLICATIONS; BIBLIOGRAPHIES;
COMPOUNDS; CORROSION; FABRICATION TECHNIQUES;
JOINING; METALLURGY; OXIDES; POWDER
METALLURGY AND CASTING; PROCESSING AND
PROPERTIES. REFERENCE TO THE USE OF BERYLLIUM IN
FUELS, NUCLEAR REACTOR APPLICATIONS, EFFECTS OF
RADIATION, AND THE CU-BE ALLOYS WERE OMITTED.
(AUTHOR)

(U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-434 445

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
THERMODYNAMICS OF REFRACTORY COMPOUNDS OF BERYLLIUM
(OXIDES, BORIDES, CARBIDES, AND NITRIDES): AN
ANNOTATED BIBLIOGRAPHY, (U)

APR 63 103P GOLDMANN, COMP. BY JACK B. J
REPT. NO. 63 16 3 80 63 3
CONTRACT: NORD 17017

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*REFRACTORY MATERIALS, BERYLLIUM
COMPOUNDS), (*BERYLLIUM, THERMODYNAMICS), (*BERYLLIUM
COMPOUNDS, THERMODYNAMICS), (*CERAMIC MATERIALS,
THERMODYNAMICS), (*BIBLIOGRAPHIES, BERYLLIUM
COMPOUNDS), (*THERMODYNAMICS, BIBLIOGRAPHIES), OXIDES,
CARBIDES, BORIDES, NITRIDES, HIGH-TEMPERATURE
RESEARCH, ABSTRACTS (U)
IDENTIFIERS: BERYLLIUM OXIDE, BERYLLIUM BORIDE,
BERYLLIUM NITRIDE, BERYLLIUM CARBIDE (U)

THE THERMODYNAMICS OF BERYLLIUM AND ITS REFRACTORY
COMPOUNDS (OXIDES, BORIDES, CARBIDES AND
NITRIDES) FROM 298.15 TO 6000 K IS THE BASIS FOR
THIS ANNOTATED BIBLIOGRAPHY. REFERENCES CONSIST OF
THEORETICAL AND EXPERIMENTAL STUDIES WHICH APPEARED
IN PRINT FROM 1880 TO 1962. THE RESOURCES OF
LOCKHEED MISSILES AND SPACE COMPANY
TECHNICAL INFORMATION CENTER WERE UTILIZED IN
THE PREPARATION OF THIS BIBLIOGRAPHY. (AUTHOR)

(U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-456 647

BATTELLE MEMORIAL INST COLUMBUS OHIO
FLUIDIZED-BED COATING WITH ORGANIC AND INORGANIC
MATERIALS. (U)
JUL 64 54P GOLDBERGER, W. M. ;
CONTRACT: DA01 U21AMC203Z
MONITOR: RSIC 278

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PROTECTIVE TREATMENTS, PROCESSING),
(*COATINGS, REVIEWS), PLASTIC COATINGS, ORGANIC
COATINGS, INORGANIC COMPOUNDS, CERAMIC COATINGS,
REFRACTORY COATINGS, BIBLIOGRAPHIES, METAL COATINGS,
MANUFACTURING METHODS, MATERIAL FORMING, SILICIDES,
PREPARATION, TEST METHODS, FLUID FLOW (U)
IDENTIFIERS: FLUIDIZED BED (U)

THIS REPORT, WRITTEN IN TWO PARTS, REVIEWS THE
PRESENT TECHNOLOGY OF FLUIDIZED-BED COATING
PROCESSES. THE FIRST PART DEALS WITH THE COATING
OF BULK SUBSTRATES WITH ORGANIC POLYMERS. THE
SECOND PART DESCRIBES THE USE OF THE FLUIDIZEDBED
METHOD FOR OBTAINING INORGANIC COATINGS ON METAL
SURFACES. THE PRINCIPLES OF FLUIDIZATION ARE
DISCUSSED IN RELATION TO BOTH TYPES OF COATING.
THE REVIEW INCLUDES A DISCUSSION OF PERFORMANCE
FACTORS, CURRENT APPLICATIONS, COST FACTORS, AND THE
ADVANTAGES AND LIMITATIONS OF FLUIDIZEDBED COATING
PROCESSES. A BIBLIOGRAPHY IS PRESENTED COMPRISING
44 REFERENCES TO THE RECENT LITERATURE ON ORGANIC
COATING AND 21 ANNOTATED REFERENCES TO COATING WITH
INORGANICS. (AUTHOR) (U)

UNCLASSIFIED

PDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-4/4 926 11/9 11/4 11/5 11/6
11/2 13/8

CHEMICAL RESEARCH AND DEVELOPMENT LABS EDGEWOOD ARSENAL
MD

MATERIALS REVIEW (18TH.).

(U)

DESCRIPTIVE NOTE: REPT. FOR JAN-JUL 65.

DEC 65 75P LYEM, ARTHUR I

REPT. NO. CRDL-SPECIAL PUB-5-8

PROJ: DA-1C522301A075

UNCLASSIFIED REPORT

DESCRIPTORS: (*REVIEWS, *MATERIALS),
(*ABSTRACTS, *MATERIALS), POLYMERS,
PLASTICS, COMPOSITE MATERIALS,
FIBERS(SYNTHETIC), ORGANIC MATERIALS,
CERAMIC MATERIALS, METALLURGY, METALS,
BIBLIOGRAPHIES

(U)

THIS REPORT PRESENTS SELECTED NEW TECHNICAL AND
SCIENTIFIC INFORMATION ABOUT MATERIALS RESEARCH HERE
AND ABROAD, PRINCIPALLY IN THE POLYMER AND PLASTICS
FIELDS. INFORMATION ABOUT RECENT TECHNOLOGICAL
ADVANCES IS PRESENTED UNDER FIVE MAJOR HEADINGS:

(1) HIGH POLYMERS, (2) PLASTIC MATERIALS,
(3) SYNTHETIC FIBERS, (4) MISCELLANEOUS
ORGANIC AND INORGANIC MATERIALS, AND (5) METALS
AND ALLOYS. OVER 250 ARTICLES WERE ABSTRACTED FROM
VARIOUS PUBLICATIONS AND LANGUAGES. MATERIALS AND
TECHNOLOGICAL ASPECTS ARE DISCUSSED, AND EACH
ABSTRACT IS NUMERICALLY KEYED TO ITS REFERENCE IN THE
BIBLIOGRAPHY. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-474 067 1179
ROYAL AIRCRAFT ESTABLISHMENT FARNBOROUGH (ENGLAND)
GLASS TRANSITION TEMPERATURES OF HOMOPOLYMERS: A
BIBLIOGRAPHY AND ASSESSMENT OF AVAILABLE DATA. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
JUL 65 76P LEE, W. A. ;
REPT. NO. TR-65151

UNCLASSIFIED REPORT

DESCRIPTORS: (*POLYMERS, *TRANSITION
TEMPERATURE), (*BIBLIOGRAPHIES, POLYMERS),
TABLES, MOLECULAR PROPERTIES, MOLECULAR
STRUCTURE, PHYSICAL PROPERTIES, PHASE STUDIES,
MEASUREMENT, BRITTLENESS, MECHANICAL PROPERTIES,
HIGH-TEMPERATURE RESEARCH, LOW-TEMPERATURE
RESEARCH, PLASTICS, ACRYLIC RESINS, STYRENE
PLASTICS, SILICONE PLASTICS, CELLULOSIC PLASTICS,
POLYESTER PLASTICS, POLYETHYLENE PLASTICS, GREAT
BRITAIN (U)
IDENTIFIERS: GLASS TRANSITION TEMPERATURES (U)

THE GLASS TEMPERATURE OF POLYMERS IS DEFINED AND
METHODS FOR ITS DETERMINATION ARE ENUMERATED. THE
INFLUENCE OF RATE OF MEASUREMENT, PURITY AND
CONDITION OF SAMPLE ON OBSERVED GLASS TRANSITION
TEMPERATURES AND THE INTERPRETATION OF DATA AND
CRITERIA FOR THEIR ASSESSMENT ARE DISCUSSED. GLASS
TRANSITION TEMPERATURES OF 424 HOMOPOLYMERS ARE
TABULATED WITH A COMPREHENSIVE BIBLIOGRAPHY OF 353
REFERENCES UP TO NOVEMBER 1964. (AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-489 382 11/4
MONSANTO RESFARCH CORP ST LOUIS MO
RHEOLOGY OF FILLED SYSTEMS. (U)
DESCRIPTIVE NOTE: LITERATURE SURVEY,
AUG 65 20P BOWER, CHARLOTTE M. ;
CALVIN, WILLIAM J. ;
REPT. NO. MPC-65-3
CONTRACT: N00014-66-C0045

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH
WASHINGTON UNIV., ST. LOUIS, MO.

DESCRIPTORS: (RHEOLOGY, *COMPOSITE MATERIALS),
(BIBLIOGRAPHIES, RHEOLOGY), SHEAR STRESSES,
VISCOSITY, SPHERES, GLASS, PARTICLES (U)

THIS IS A PRELIMINARY LISTING OF REFERENCES TO
LITERATURE CONCERNED WITH THE RHEOLOGY OF FILLED
SYSTEMS. ONLY A SUPERFICIAL ATTEMPT HAS BEEN MADE
TO RELATE THIS INFORMATION TO THE STUDY OF
COMPOSITES. THE ABSTRACTS ARE THOSE PUBLISHED IN
THE ABSTRACTING SERVICES OR THOSE APPEARING WITH THE
ORIGINAL PUBLICATION. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-488 384 11/4
MONSANTO RESEARCH CORP ST LOUIS MO
EXPERIMENTAL DATA TO SUPPORT EXISTING THEORIES ON THE
PHYSICAL AND MECHANICAL PROPERTIES OF COMPOSITE
MATERIALS. (U)
DESCRIPTIVE NOTE: LITERATURE SURVEY 1960-1964,
AUG 65 18P BOWER, CHARLOTTE M. ;
VINCENT, J. ROSS ;
REPT. NO. MPC-65-7
CONTRACT: N00014-66-C0045

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH
WASHINGTON UNIV., ST. LOUIS, MO.

DESCRIPTORS: (COMPOSITE MATERIALS, MECHANICAL
PROPERTIES), (BIBLIOGRAPHIES, COMPOSITE
MATERIALS), PHYSICAL PROPERTIES, THEORY,
STRESSES, ADHESIVES, PRODUCTION, TEST
METHODS (U)

THE PURPOSE OF THE LITERATURE SEARCH WAS TO FIND
EXPERIMENTAL DATA TO SUPPORT THE EXISTING THEORIES ON
THE PHYSICAL AND MECHANICAL PROPERTIES OF COMPOSITE
MATERIALS. A BRIEF BIBLIOGRAPHY HAS BEEN COMPILED
FROM CITATIONS IN CHEMICAL ABSTRACTS, 1960 -
1964. (AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-488 387 1175
MONSANTO RESEARCH CORP ST LOUIS MO
FIBERS FOR HIGH PERFORMANCE COMPOSITES. (U)
DESCRIPTIVE NOTE: LITERATURE SURVEY 1957-AUG 65.
AUG 65 85P BOWER, CHARLOTTE M. ;
PETERSON, W. CHRIS ;
REPT. NO. HFC-65-8
CONTRACT: N00014-64-C0045

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH
WASHINGTON UNIV., ST. LOUIS, MO.

DESCRIPTORS: (FIBERS, COMPOSITE MATERIALS),
REINFORCING MATERIALS, CERAMIC FIBERS, GRAPHITE,
GLASS, CARBON, BIBLIOGRAPHIES, SILICONES,
MECHANICAL PROPERTIES, METALLIC TEXTILES,
PLASTICS, ASBESTOS, REFRACTORY MATERIALS,
COATINGS, POLYMERS, TEMPERATURE (U)

THE PRESENT STATE-OF-THE-ART AND THE FUTURE PROMISE
OF FIBERS FOR USE IN HIGH PERFORMANCE COMPOSITES ARE
DISCUSSED. THE LITERATURE SURVEY, WHICH COVERS THE
PERIOD FROM 1957 TO AUGUST 1965, INCLUSIVE,
CONTAINS 235 REFERENCES WITH ABSTRACTS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-600 642

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D

C

PRESERVATION OF INACTIVE EQUIPMENT AND LONG-TERM
STORAGE OF MATERIALS. (U)

NOV 63 26P JANECKA, HANS ;

REPT. NO. 562 045, PDL49620

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (MATERIALS, PRESERVATION),
(BIBLIOGRAPHIES, PRESERVATION), (STORAGE,
MATERIALS), (PRESERVATION, BIBLIOGRAPHIES),
PRESERVATION, PROTECTIVE TREATMENTS, CORROSION
INHIBITION, LOGISTICS (U)

BIBLIOGRAPHY ON PRESERVATION OF INACTIVE EQUIPMENT AND
LONG-TERM STORAGE OF MATERIALS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. UG0390

AD-611 643

PREVENTION OF DEGRADATION CENTER NAS-NRC WASHINGTON D
C

BIBLIOGRAPHY ON VAPOR PHASE CORROSION INHIBITORS FOR
NONFERROUS AND FERROUS METALS. (U)

FJV 63 22P JANECKA, MANS I

REPT. NO. 563 046, POL49674

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (CORROSION INHIBITION, METALS),
(BIBLIOGRAPHIES, ANTIOXIDANTS), (ANTIOXIDANTS,
VAPORS), (CORROSION INHIBITION, BIBLIOGRAPHIES), IRON
ALLOYS, STEEL (U)

BIBLIOGRAPHY ON VAPOR PHASE CORROSION INHIBITORS FOR
NONFERROUS AND FERROUS METALS.

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-601 247

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

BIBLIOGRAPHY ON MICROBIAL CORROSION OF METALS. (U)

JUL 63 74P LEF, RICHARD W. H. I

REPT. NO. 563 025 ,PDL48074

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (METALS, CORROSION), (BIBLIOGRAPHIES,
CORROSION), (CORROSION, MICROORGANISMS), CORROSION
INHIBITION, SEA WATER, MICROBIOLOGY, FUNGUSPROOFING,
IRON, STEEL, PIPES, UNDERGROUND, DOCUMENTATION,
ALUMINUM, BIOLOGICAL CONTAMINATION, COPPER, LEAD,
ABSTRACTS (U)

BIBLIOGRAPHY ON MICROBIAL CORROSION OF METALS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-601 249

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

THE AGING OF NATURAL AND SYNTHETIC RUBBER AND RUBBER
PRODUCTS. (U)

DESCRIPTIVE NOTE: AN ANNOTATED BIBLIOGRAPHY,

FEB 64 169P JANECKA, HANS ;

REPT. NO. PDC 564 DDZ PDL50728

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BIBLIOGRAPHIES, RUBBER), (•RUBBER,
(AGING (MATERIALS)), (•AGING (MATERIALS)),
BIBLIOGRAPHIES), ABSTRACTS, DEGRADATION, FUNGUS
DETERIORATION, SYNTHETIC RUBBER, TROPICAL
DETERIORATION (U)

THIS ANNOTATED BIBLIOGRAPHY OF OVER 900 REFERENCES
ON THE PRESERVATION OF RUBBER, LISTS RESEARCH REPORTS
FROM THE MAJOR RUBBER COMPANIES, THE ARMED SERVICES,
CIVILIAN GOVERNMENT AGENCIES, AND OTHER SOURCES. (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-A01 278
PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C
AN INTRODUCTORY BIBLIOGRAPHY ON MICROBIAL RESISTANCE
OF THERMOSETTING PLASTICS. (U)
SEP 61 9P LEE, RICHARD W. H. ;
REPT. NO. S61 027 ,PDL41293

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•THERMOSETTING PLASTICS, FUNGUS
DETERIORATION), (•BIBLIOGRAPHIES, THERMOSETTING
PLASTICS), DEGRADATION, FINISHES AND FINISHING,
MICROBIOLOGY, BIOLOGICAL CONTAMINATION, FUNGUS
PROOFING, SILICONE PLASTICS, TROPICAL REGIONS, EPOXY
PLASTICS, MOISTURE, PHENOLIC PLASTICS, ELECTRIC
INSULATION, PLASTIC COATINGS, AMINO PLASTICS (U)

BIBLIOGRAPHY ON MICROBIAL RESISTANCE OF THERMOSETTING
PLASTICS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-601 279

PREVENTION OF DEGRADATION CENTER HAS-NRC WASHINGTON D
C

POLYURETHANE COATINGS USE AND PERFORMANCE. (U)

DESCRIPTIVE NOTE: AN ANNOTED BIBLIOGRAPHY

MAR 64 17P JANECKA, HANS ;

REPT. NO. 564 011 , PDL50915

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, ISOCYANATE PLASTICS),
(*ISOCYANATE PLASTICS, BIBLIOGRAPHIES), (*PLASTIC
COATINGS, ISOCYANATE PLASTICS), (*ISOCYANATE PLASTICS,
PLASTIC COATINGS), ABSTRACTS, ELASTOMERS, COATINGS (U)

BIBLIOGRAPHY ON THE USE AND PERFORMANCE OF POLYURETHANE
COATINGS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-601 260

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D

C

BIBLIOGRAPHY ON BACTERIAL DEGRADATION OF TEXTILES AND
CELLULOSE. (U)

JAN 54 17P

REPT. NO. 558 DUD ,PDL42285

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•TEXTILES, DEGRADATION), (•CELLULOSE,
DEGRADATION), (•BIBLIOGRAPHIES, TEXTILES),
MICROBIOLOGY, BACTERIA, FUNGUS PROOFING,
MICROORGANISMS, PROTECTIVE TREATMENTS, MARINE BIOLOGY,
SOILS, COTTON TEXTILES, NETS, SEA WATER, STORAGE,
WOLLEN TEXTILES, HUMIDITY, TROPICAL REGIONS (U)
IDENTIFIERS: BACTERIAL DEGRADATION (U)

BIBLIOGRAPHY ON BACTERIAL DEGRADATION OF TEXTILES AND
CELLULOSE.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-401 282

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C
BIBLIOGRAPHY ON PROPERTIES AND DEGRADATION OF
POLYETHYLENE TEREPHTHALATE AND METHYL METHACRYLATE
POLYMERS. (U)

DEC 61 28P LEE, RICHARD W. H. ;
REPT. NO. 561 027, PCL42278

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*POLYESTER PLASTICS, DEGRADATION),
(*ACRYLIC RESINS, DEGRADATION), (*BIBLIOGRAPHIES,
POLYESTER PLASTICS), (*BIBLIOGRAPHIES, ACRYLIC
RESINS), PLASTICS, PHYSICAL PROPERTIES (U)

A BIBLIOGRAPHY OF 242 ITEMS LISTED BY PDC
ACCESSION NUMBER. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-AJ1 284
PREVENTION OF DETERIORATION CENTER HAS-NRC WASHINGTON D
C
BIBLIOGRAPHY ON AGING OF NATURAL AND SYNTHETIC RUBBER
AND RUBBER PRODUCTS IN STORAGE. (U)
MAY 61 7P
REPT. NO. S61 016 ,PDL49379

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (RUBBER, BIBLIOGRAPHIES), (AGING
(MATERIALS) BIBLIOGRAPHIES), (BIBLIOGRAPHIES,
RUBBER), (BIBLIOGRAPHIES, SYNTHETIC RUBBER), STORAGE,
MATERIALS (U)

BIBLIOGRAPHY ON AGING OF NATURAL AND SYNTHETIC RUBBER AND
RUBBER PRODUCTS IN STORAGE.

UNCLASSIFIED

PUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-601 289

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C
BIBLIOGRAPHY ON (DEGRADATION OF POLY(VINYL CHLORIDE)
BY SOIL MICROORGANISMS. (U)

MAR 61 YP

REPT. NO. 561 007 .POL42283

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (POLYVINYL CHLORIDE, DEGRADATION),
(POLYVINYL CHLORIDE, BIBLIOGRAPHS),
(BIBLIOGRAPHS, POLYVINYL CHLORIDE),
(MICROORGANISMS, DEGRADATION), PLASTICS, FUNGUS
DETERIORATION, BACTERIA, SOILS (U)

A BIBLIOGRAPHY OF 60 ITEMS LISTED BY PUC
ACCESSION NUMBER. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-601 286

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

BIBLIOGRAPHY ON POLYETHYLENE SHEATHED CABLES. (U)

FEB 61 8P

REPT. NO. 561 002 ,PDL 42279

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ELECTRIC INSULATION, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, ELECTRIC INSULATION), (POLYETHYLENE
PLASTICS, ELECTRIC INSULATION), ELECTRIC CABLES,
TELEPHONE LINES, COATINGS (U)

BIBLIOGRAPHY ON POLYETHYLENE SHEATHED CABLES.

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-601 288

PREVENTION OF DETERIORATION CENTER HAS-NRC WASHINGTON D
C

BIBLIOGRAPHY ON MICROBIOLOGICAL DETERIORATION OF
PAINT FILMS. (U)

JUN 61 17P

REPT. NO. S61 718 .PDL42279

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, PAINTS), (PAINTS,
DEGRADATION), (DEGRADATION, MICROBIOLOGY), COATINGS,
FUNGUSPROOFING, FUNGICIDES, TROPICAL TESTS, PROTECTIVE
TREATMENTS, MATERIALS, MICROORGANISMS (U)

BIBLIOGRAPHY ON MICROBIOLOGICAL DETERIORATION OF PAINT
FILMS.

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-601 290

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D

C
BIBLIOGRAPHY ON MICROORGANISMS AFFECTING PETROLEUM
AND PETROLEUM PRODUCTS INCLUDING REPORTS ON SULFATE-
REDUCING BACTERIA. (U)

AUG 62 22P LEE, RICHARD W. H. I
REPT. NO. 562 037, PDL44481

UNCLASSIFIED REFCK1

SUPPLEMENTARY NOTE:

DESCRIPTORS: (0)BIBLIOGRAPHIES, MICROORGANISMS),
(0)MICROORGANISMS, BIBLIOGRAPHIES), (0)PETROLEUM,
MICROBIOLOGY), (0)DEGRADATION, MICROORGANISMS), OILS,
HYDROCARBONS, SULFATES, BACTERIA, CORROSION, METALS,
BIOCHEMISTRY, GERMICIDES (U)

BIBLIOGRAPHY ON MICROORGANISMS AFFECTING PETROLEUM AND
PETROLEUM PRODUCTS INCLUDING REPORTS ON SULFATE-REDUCING
BACTERIA.

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000790

AD-601 291
PREVENTION OF DETRIUMATION CENTER HAS-NRC WASHINGTON D
C
BIBLIOGRAPHY ON OZONE DETERIORATION OF RUBBER. (U)
JUL 62 JAP
REPT. NO. 562 077 ,POL44760

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (RUBBER, DEGRADATION),
(BIBLIOGRAPHIES, RUBBER), OZONE, TIRES, STORAGE,
ELASTOMERS, VULCANIZATES, SYNTHETIC RUBBER (U)

A BIBLIOGRAPHY IS GIVEN CONSISTING OF APPROXIMATELY
375 REFERENCES ON OZONE DETERIORATION OF RUBBER. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000950

AD-601 294
PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C
BIBLIOGRAPHY ON CORROSION RESISTANCE OF CADMIUM
COATINGS. (U)
DEC 62 17P LEE, RICHARD W. H. ;
REPT. NO. 562 D9E , PDL45936

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (METAL COATINGS, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, METAL COATINGS), (CADMIUM,
CORROSION INHIBITION), COATINGS, ELECTROPLATING,
CORROSION (U)

A BIBLIOGRAPHY OF 154 REFERENCES IS GIVEN ON THE
CORROSION RESISTANCE OF CADMIUM COATINGS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-601 295

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

PERFORMANCE ABOVE 1000 F OF SUPERALLOYS AND
PROTECTIVE COATINGS. (U)

DESCRIPTIVE NOTE: AN ANNOTATED BIBLIOGRAPHY,

DEC 63 28P LYLE, R. G. ; PEDEN, R. C. ;

REPT. NO. 562 050 , PDL50140

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BIBLIOGRAPHIES, HEAT RESISTANT METALS
AND ALLOYS), (•HEAT RESISTANT METALS AND ALLOYS,
BIBLIOGRAPHIES), (•COATINGS, HEAT RESISTANT METALS AND
ALLOYS), NICKEL ALLOYS, REFRACTORY COATINGS,
MECHANICAL PROPERTIES, FATIGUE (MECHANICS), OXIDATION,
CREEP, CERAMIC COATINGS, CORROSION INHIBITION, METAL
COATINGS, IRON ALLOYS, ALUMINUM ALLOYS, CHROMIUM
ALLOYS, RHENIUM ALLOYS, MOLYBDENUM ALLOYS, TUNGSTEN
ALLOYS, STEEL, ORGANIC COATINGS, THERMAL STRESSES,
FRACTURE (MECHANICS), COBALT ALLOYS (U)
IDENTIFIERS: SUPERALLOYS (U)

PERFORMANCE ABOVE 1000F OF SUPERALLOYS AND PROTECTIVE
COATINGS.

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-601 299

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

BIBLIOGRAPHY ON METAL-BONDING ADHESIVES. (U)

FEB 63 13P LEE, RICHARD W. H. ;

REPT. NO. S63 004 , PDL46448

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, ADHESIVES),
(*ADHESIVES, METALS), ADHESION, SEALING COMPOUNDS,
EPOXY PLASTICS, SILICONE PLASTICS, PHENOLIC PLASTICS,
ALUMINUM, SANDWICH CONSTRUCTION, AIRPLANE PANELS,
DEGRADATION, DOCUMENTATION, CERAMIC MATERIALS,
PLASTICS, BONDING, MECHANICAL PROPERTIES, STAINLESS
STEEL, LAMINATES (U)

BIBLIOGRAPHY ON METAL - BONDING ADHESIVES.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-AUI 300

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D

C
REFERENCES PERTAINING TO CORROSION RESISTANCE OF ZINC
AND ZINC COATINGS UNDER CONDITIONS OF HIGH HUMIDITY
OR IN CONTACT WITH GROUND WATERS, (U)

APR 63 17P LEE, RICHARD W. H. :

REPT. NO. S63 022 ,PDL 48073

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, CORROSION INHIBITION),
(*CORROSION INHIBITION, BIBLIOGRAPHIES), (*ZINC,
CORROSION INHIBITION), (*ZINC COATINGS, CORROSION
INHIBITION), HUMIDITY (U)

IDENTIFIERS: GROUND WATERS (U)

BIBLIOGRAPHY ON CORROSION RESISTANCE OF ZINC AND ZINC
COATINGS UNDER CONDITIONS OF HIGH HUMIDITY OR IN CONTACT
WITH GROUND WATERS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-601 204

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

SPRAYED METALLIC COATINGS FOR FERROUS METALS, AN
INTRODUCTORY BIBLIOGRAPHY, (U)

APR 62 11P LEE, RICHARD W. H. ;
REPT. NO. 562 013 , PDL 42216

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, METAL COATINGS),
(*METAL COATINGS, SPRAYS), (*IRON, PROTECTIVE
TREATMENTS), (*STEEL, FINISHES AND FINISHING),
(*CORROSION INHIBITION, METALS), UNDERWATER,
DEGRADATION, ALUMINUM COATINGS, ZINC COATINGS,
IMPREGNATION, ELECTROCHEMISTRY, ANTIFOULING COATINGS,
FATIGUE (MECHANICS) (U)

BIBLIOGRAPHY ON SPRAYED METALLIC COATINGS FOR FERROUS
METALS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-A01 207

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

SELECTED LITERATURE REFERENCES ON CRITICAL RELATIVE
HUMIDITIES FOR CORROSION-AND FUNGUSFREE STORAGE. (U)

AUG 62 12P LEE, RICHARD W. H. ;

REPT. NO. S62 028 .PDL44499

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*CORROSION INHIBITION, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, CORROSION INHIBITION), (*FUNGUS
DETERIORATION, STORAGE), (*HUMIDITY, STORAGE), FUNGI,
TEXTILES, MATERIALS, CORROSION, TROPICAL
DETERIORATION (U)

A BIBLIOGRAPHY IS GIVEN INCLUDING 93 REFERENCES ON
CRITICAL RELATIVE HUMIDITIES FOR CORROSION-AND
FUNGUS-FREE STORAGE. (U)

UNCLASSIFIED

PDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-401 309

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D

C

BIBLIOGRAPHY ON RESISTANCE OF PLASTICS TO
MICROORGANISMS, INSECTS, RODENTS AND OTHER
PESTS.

(U)

OCT 62 33P LEE, RICHARD W. H. ;
REPT. NO. 562 044 , PDL4526R

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (+PLASTICS, DEGRADATION),
(+BIBLIOGRAPHIES, PLASTICS), (+MICROORGANISMS,
PLASTICS), (+BIBLIOGRAPHIES, PEST CONTROL), MATERIALS,
FUNGUS DETERIORATION, BACTERIA, PEST CONTROL, RODENTS,
INSECTS (U)

A BIBLIOGRAPHY OF APPROXIMATELY 250 ITEMS LISTED BY
GENERAL SUBJECT AND PDC ACCESSION NUMBER. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-602 202

FOREST PRODUCTS LAB MADISON WIS

LIST OF PUBLICATIONS ON THE CHEMISTRY OF WOOD. (U)

MAY 64 24P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPRINT OF FPL REPT. NO. 236.

DESCRIPTORS: (WOOD, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, WOOD), WOOD PULP, LIGNIN, CHARCOAL,
PAPER, PLASTICS, LAMINATES, CHEMICAL ANALYSIS,
CHROMATOGRAPHIC ANALYSIS, BIOCHEMISTRY, PHYSICAL
PROPERTIES, CELLULOSE, PATENTS, MICROSTRUCTURE,
SURFACE PROPERTIES, SPECTROSCOPY, CARBOHYDRATES (U)
IDENTIFIERS: MOLASSES (U)

THE BIBLIOGRAPHY LISTS 247 PUBLICATIONS THAT GIVE
GENERAL INFORMATION AND RESULTS OF RESEARCH BY THE
U. S. FOREST SERVICE ON THE ANALYSIS, CHEMICAL
AND PHYSICAL PROPERTIES, AND CONVERSION PROCESSES OF
WOOD AND WOOD PRODUCTS. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-AU2 751

FOREST PRODUCTS LAB MADISON WIS
LIST OF PUBLICATIONS ON STRUCTURAL SANDWICH, PLASTIC
LAMINATES, AND WOOD-BASE COMPONENTS. (U)
MAY 64 40P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREVIOUSLY ISSUED AS FPL REPT. NO.
RPI-4.

DESCRIPTORS: (WOOD, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, WOOD), (SANDWICH CONSTRUCTION,
BIBLIOGRAPHIES), (LAMINATED PLASTICS,
BIBLIOGRAPHIES), PLYWOOD, JOINTS, FASTENINGS,
LAMINATES, PLASTICS, WOOD PULP, PAPER, LIGNIN,
ADHESIVES, SHEAR STRESSES, PHYSICAL PROPERTIES,
DISCOLORATION, FORESTRY (U)

THE BIBLIOGRAPHY LISTS 261 PUBLICATIONS ON
STRUCTURAL SANDWICH, PLASTIC LAMINATES, AND WOOD-BASE
COMPONENTS. TOPICS INCLUDE: SOLID WOOD, PLYWOOD
AND VENEERS, JOINTS AND FASTENINGS, WOOD AND PLYWOOD
STRUCTURAL MEMBERS, ALLWOOD LAMINATES, PLASTIC
LAMINATES, STABILIZED WOOD AND WOOD-RESIN LAMINATES,
PULP, PAPER, AND LIGNIN LAMINATES, ADHESIVES AND
GLUE-JOINT PROPERTIES, SANDWICH CONSTRUCTION, AND
PATHOLOGICAL AND BIOLOGICAL FEATURES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-602 397

WATTELLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS
INFORMATION CENTER
DEFENSE METALS INFORMATION CENTER SELECTED
ACCESSIONS, (U)

JUL 64 50P RANKS, MARY F. ;
CONTRACT: AF33 619 1121
PROJ: 8979

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (METALS, BIBLIOGRAPHIES), (ALLOYS,
BIBLIOGRAPHIES), INDEXES, ABSTRACTS, REFRACTORY
METALS, NON-METALS, REFRACTORY MATERIALS, GRAPHITE,
CERAMIC MATERIALS, COATINGS, COMPOSITE MATERIALS,
STEEL, STAINLESS STEEL, BERYLLIUM, TITANIUM,
MAGNESIUM, ALUMINUM, NICKEL ALLOYS, IRON ALLOYS,
MECHANICAL PROPERTIES (U)

AN ANNOTATED BIBLIOGRAPHY IS GIVEN ON HIGH-STRENGTH
ALLOYS, LIGHT METALS, NONMETALLICS, REFRACTORY
METALS, COATINGS, AND COMPOSITES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-602 727

PURDUE RESEARCH FOUNDATION LAFAYETTE IND
PROTECTIVE COATINGS FOR CONCRETE,
SEP 63 57P DOLCH, W. L. ;
CONTRACT: DA33 017CIVENG63 6
MONITOR: ORIL-EC , TR2 29

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (COATINGS, PROTECTIVE TREATMENTS),
(CONCRETE, MOISTUREPROOFING), PAINTS, PLASTIC PAINTS,
BITUMINOUS COATINGS, EPOXY PLASTICS, SILICONES,
SOLVENTS, COLLOIDS, SURFACES, REVIEWS, BIBLIOGRAPHIES (U)

A REVIEW OF SOME ASPECTS OF PROTECTIVE COATINGS,
(97 REFS.) FOR CONCRETE COMPRISING A SELECTED
BIBLIOGRAPHY WITH BRIEF ANNOTATIONS AND A SUMMARY OF
THE STATE OF THE ART AS REVEALED BY THE REFERENCES
CITED. THE REPORT IS CONCERNED CHIEFLY WITH
COATINGS THAT HAVE BEEN USED TO PROTECT CONCRETE FROM
WATER INGRESS. BASIC PRINCIPLES OF WATERPROOFING
AND DAMPROOFING ARE DISCUSSED. PROTECTIVE COATINGS
ARE CLASSIFIED INTO SEVEN CATEGORIES, I.E., CEMENT-
BASE PAINTS, SOLVENT-THINNED PAINTS, EMULSION PAINTS,
BITUMINOUS COATINGS, SILICONES, EPOXY AND RELATED
COATINGS, MISCELLANEOUS COATINGS, AND EACH CLASS IS
DISCUSSED SEPARATELY. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-605 214

CHEMICAL RESEARCH AND DEVELOPMENT LABS EDGEMOOD ARSENAL
MO

MATERIALS REVIEW (19TH). (U)

DESCRIPTIVE NOTE: REPT. FOR JUL 63-JAN 64.

JUN 64 68P LYEM, ARTHUR S

PROJ: IC22301AU75

MONITOR: CRORUL, SP5 4

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (MATERIALS, REVIEWS), (PLASTICS,
REVIEWS), POLYMERS, FIBERS (SYNTHETIC), TEXTILES,
ORGANIC COMPOUNDS, INORGANIC COMPOUNDS, METALS,
ALLOYS, CORROSION, CHEMISTRY, MANUFACTURING METHODS,
TOXICOLOGY, BIBLIOGRAPHIES, ABSTRACTING (U)

THE PURPOSE OF THE SEMIANNUAL REVIEW IS TO PRESENT
TECHNICAL AND SCIENTIFIC HIGHLIGHTS REGARDING
MATERIALS RESEARCH HERE AND ABROAD. PROVIDED IS
INFORMATION CONCERNING RECENT TECHNOLOGICAL ADVANCES,
WHICH ARE PRESENTED UNDER FIVE MAJOR HEADINGS:
HIGH POLYMERS, PLASTIC MATERIALS, SYNTHETIC FIBERS,
MISCELLANEOUS ORGANIC AND INORGANIC COMPOUNDS, AND
METALS AND ALLOYS. OVER 300 ARTICLES HAVE BEEN
ABSTRACTED FROM VARIOUS PUBLICATIONS AND LANGUAGES.
MATERIALS AND TECHNOLOGICAL ASPECTS ARE DISCUSSED,
AND A COMPLETE BIBLIOGRAPHY IS GIVEN. (AUTHOR)

(U)

UNCLASSIFIED

DMIC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AL-606 214

RATTELLE MEMORIAL INST COLUMBUS OHIO
DEFENSE METALS INFORMATION CENTER SELECTED
ACCESSIONS.

(U)

S.P. 64 JP BANKS, MARY F. :

CONTRACT: AF37 615 1121

PROJ: 8975

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (METALS, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, METALS), INDEXES, METALLOGRAPHY,
ALLOYS, ALKALINE EARTH METALS, ALUMINUM, TRANSITION
ELEMENTS, REFRACTORY METALS, NON-METALS, COATINGS,
COMPOSITE MATERIALS, METALLURGY, STEELS, COBALT
ALLOYS, NICKEL ALLOYS, STAINLESS STEEL, BERYLLIUM,
TITANIUM, MAGNESIUM, GRAPHITE, CARBON, REFRACTORY
MATERIALS, CERAMIC MATERIALS, CHROMIUM, VANADIUM,
PLATINUM

(U)

THE 'DMIC SELECTED ACCESSIONS' IS A CURRENT
LISTING OF SELECTED DOCUMENTS AND JOURNAL ARTICLES IN
AN ABSTRACTED FORM ON SUBJECTS WITHIN THE TECHNICAL
SCOPE OF THE DEFENSE METALS INFORMATION
CENTER (DMIC). IT DOES NOT INCLUDE RESTRICTED
DOCUMENTS RECEIVED BY DMIC, SUCH AS GOVERNMENT
CLASSIFIED REPORTS, MANY OF THE PROGRESS REPORTS
ISSUED TO GOVERNMENT AGENCIES, OR COMPANY
PROPRIETARY REPORTS. IT IS PUBLISHED TO SUPPLY
CURRENT INFORMATION AND TO PROVIDE AN AWARENESS OF
TECHNICAL INFORMATION SOURCES TO GOVERNMENT
CONTRACTORS AND SUBCONTRACTORS. TOPICS INCLUDE:
HIGH-STRENGTH ALLOYS, LIGHT METALS, NONMETALLICS,
REFRACTORY METALS, COATINGS, APPLICATIONS, AND
COMPOSITES.

(U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000250

AD-606 561

PLASTICS TECHNICAL EVALUATION CENTER DOVER N J
SUBJECT INDEX, BIBLIOGRAPHY, AND CODE DESCRIPTION OF
TECHNICAL CONFERENCE PAPERS ON PLASTICS: 28 FEB 63-1
MAR 64. (U)

DESCRIPTIVE NOTE: ANNUAL REPT. NO. 4,
JUL 64 124P MOLZON, ARNOLD E. ;
MONITOR: PLASTEC , 17

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•PLASTICS, REPORTS), (•SUBJECT
INDEXING, PLASTICS), (•BIBLIOGRAPHIES, PLASTICS),
INDEXES, SYMPOSIA, PHYSICAL PROPERTIES, MATERIALS (U)

THE PAPERS PRESENTED AT TECHNICAL CONFERENCES
ON PLASTIC MATERIALS AND RELATED TECHNOLOGY, WITHIN A
ONE YEAR PERIOD ENDING 28 FEBRUARY 1964, HAVE BEEN
LISTED, INDEXED BY SUBJECT, AND COMPILED BY MATERIAL,
TYPE OF TECHNICAL DATA, AND MILITARY APPLICATION.
OVER 400 PAPERS FROM 19 CONFERENCES HAVE BEEN
COVERED. INCLUDED ARE A BIBLIOGRAPHY AND AN AUTHOR
INDEX. AN ANALYSIS OF TECHNICAL CONFERENCE TRENDS
IS ALSO PRESENTED. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-616 824

MATTELLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS
INFORMATION CENTER
DEFENSE METALS INFORMATION CENTER SELECTED
ACCESSIONS, (U)

SEP 59 75P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (METALS, BIBLIOGRAPHIES), (ALLOYS,
BIBLIOGRAPHIES), INDEXES, ABSTRACTING, TITANIUM
ALLOYS, BERYLLIUM, REFRACTORY METALS, STEEL, STAINLESS
STEEL, NICKEL ALLOYS, COBALT ALLOYS, IRON ALLOYS,
YTTRIUM, RARE EARTHS COMPOUNDS, MATERIAL FORMING,
MECHANICAL PROPERTIES, REFRACTORY MATERIALS,
LAMINATES, COMPOSITE MATERIALS, ABLATION, BOUNDARY
LAYER (U)

AN ANNOTATED BIBLIOGRAPHY IS GIVEN ON LIGHT METALS,
REFRACTORY METALS, HIGH-STRENGTH ALLOYS, RARE EARTH
METALS, NONMETALLIC REFRACTORIES, AND COMPOSITES. (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-607 294

WESTERN RESERVE UNIV CLEVELAND OHIO ELECTROCHEMISTRY
RESEARCH LAB

THE PHYSICAL AND CHEMICAL PROPERTIES OF DILUTE ALKALI
METAL AMALGAMS, A REVIEW. PART II: CHEMICAL
PROPERTIES AND STRUCTURES. (U)

DESCRIPTIVE NOTE: TECHNICAL REPT. NO. 20,

JUL 63 147P DAVIES, MYRON O. ;

SCHWARTZ, EUGENE ; YEAGER, ERNEST ; HOVORKA, FRANK ;

CONTRACT: NONR2391 00

PROJ: NR359 277

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•ALKALI METAL ALLOYS, MERCURY ALLOYS),
(•MERCURY ALLOYS, CHEMICAL PROPERTIES),
(•ELECTROCHEMISTRY, MERCURY ALLOYS), CHEMICAL
REACTIONS, LIQUIDS, GASES, AIR, OXYGEN, CARBON
DIOXIDES, SULFUR COMPOUNDS, DIOXIDES, NITROGEN,
OXIDES, MOLECULAR STRUCTURE, REVIEWS, BIBLIOGRAPHIES,
REDUCTION (CHEMISTRY), SODIUM ALLOYS, POTASSIUM
ALLOYS, ORGANIC COMPOUNDS, FUEL CELLS, VOLTAGE,
ELECTRODES, POLARIZATION, SURFACE PROPERTIES,
DIFFUSION, TRANSPORT PROPERTIES, COLLOIDS, CHEMICAL
COMPOUNDS, AMMONIUM COMPOUNDS, PHYSICAL PROPERTIES (U)

THE PRESENT REPORT IS THE SECOND IN A TWO PART
SERIES SUMMARIZING THE LITERATURE RELATING TO DILUTE
ALKALI METAL AMALGAMS. THE THREE PRINCIPAL AREAS
COVERED IN THIS SECOND PART ARE: GENERAL CHEMICAL
PROPERTIES, ELECTROCHEMISTRY PROPERTIES, STRUCTURAL
FEATURES. A CRITICAL EVALUATION OF THE AVAILABLE
INFORMATION HAS BEEN ATTEMPTED. ALL REFERENCES ARE
LISTED IN A BIBLIOGRAPHY PRESENTED AT THE END OF THE
REPORT. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-609 526

DEBELL AND RICHARDSON INC HAZARDVILLE CONN
GLASS/RESIN INTERFACE: PATENT SURVEY, PATENT LIST,
AND GENERAL BIBLIOGRAPHY, (U)
SEP 64 54P EAKINS, WILLIAM J. ;
MONITOR: PLASTEC , 18

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COMPOSITE MATERIALS, GLASS TEXTILES),
(*GLASS TEXTILES, LAMINATED PLASTICS), (*SURFACES
PROPERTIES, GLASS TEXTILES), (*PATENTS, GLASS
TEXTILES), (*BIBLIOGRAPHIES, GLASS TEXTILES),
(*LAMINATED PLASTICS, GLASS TEXTILES), CLEANING,
REINFORCING MATERIALS, LAMINATES, PLASTICS, INDEXES,
HEAT TREATMENT, COATINGS, BONDING, ELASTICITY, SHEAR
STRESSES (U)

THIS REPORT PRESENTS A PATENT SURVEY WITHIN THREE
AREAS PERTAINING TO THE GLASS/RESIN INTERFACE
PROBLEM, AS ENCOUNTERED IN THE FABRICATION OF GLASS
REINFORCED PLASTICS. THE AREAS COVERED ARE: THE
SIZING OF GLASS FIBERS, THE CLEANING OF GLASS STRAND
AND FABRIC, AND THE USE OF GLASS/RESIN COUPLING
AGENTS. INCLUDED IS A LIST OF 77 PATENTS AND A
GENERAL BIBLIOGRAPHY ON GLASS/ RESIN INTERFACE
CONSISTING OF 146 ITEMS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-616 389

BATTELLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS
INFORMATION CENTER

DEFENSE METALS INFORMATION CENTER SELECTED
ACCESSIONS, (U)

MAY 65 74P GREEN, CAROLYN A. ;

CONTRACT: AF33 615 1121

PROJ: 8975

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-613 566.

DESCRIPTORS: (*METALLURGY, BIBLIOGRAPHIES),
(*METALS, BIBLIOGRAPHIES), (*MATERIALS,
BIBLIOGRAPHIES), COBALT ALLOYS, NICKEL ALLOYS,
STEEL, IRON ALLOYS, BERYLLIUM, TITANIUM,
MAGNESIUM, ALUMINUM, NON-METALS, REFRACTORY
METALS, NIOBIUM, MOLYBDENUM, TANTALUM,
TUNGSTEN, PLATINUM, COATINGS, COMPOSITE
MATERIALS, ABSTRACTING, INDEXES, MATERIAL
FORMING (U)

AN ANNOTATED BIBLIOGRAPHY IS GIVEN ON HIGH-STRENGTH
ALLOYS, LIGHT METALS, NONMETALLICS, REFRACTORY
METALS, AND MISCELLANEOUS MATERIALS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-620 142

PLASTICS TECHNICAL EVALUATION CENTER DOVER N J
SUBJECT INDEX, BIBLIOGRAPHY, AND CODE DESCRIPTION OF
TECHNICAL CONFERENCE PAPERS ON PLASTICS: 2 MARCH
1964-5 MARCH 1965, (U)

JUN 65 109P TITUS, JOAN B. ; MOLZON, ARNOLD

E. ;

REPT. NO. PLASTEC-21

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-423 560.

DESCRIPTORS: (*PLASTICS, REPORTS),
(*DOCUMENTATION, PLASTICS), SUBJECT INDEXING,
BIBLIOGRAPHIES, SYMPOSIA, CODING, INDEXES (U)

THE PAPERS PRESENTED AT TECHNICAL CONFERENCES ON
PLASTIC MATERIALS AND RELATED TECHNOLOGY, WITHIN A
ONE YEAR PERIOD ENDING 5 MARCH 1965 HAVE BEEN
LISTED, INDEXED BY SUBJECT, AND COMPILE BY MATERIAL,
TYPE OF TECHNICAL DATA, AND MILITARY APPLICATION.
OVER 550 PAPERS FROM 23 CONFERENCES HAVE BEEN
COVERED. INCLUDED ARE A BIBLIOGRAPHY, AUTHOR
INDEX, SUMMARY OF NEW MATERIAL DEVELOPMENTS, AND A
LIST OF APPLICATIONS AND PROGRAMS SPONSORED BY THE
DEPARTMENT OF DEFENSE AND THE NATIONAL
AERONAUTICS AND SPACE ADMINISTRATION. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-621 544

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

BIBLIOGRAPHY ON DEGRADATION OF TEXTILES BY
MICROORGANISMS, WEATHERING AND ATMOSPHERIC
POLLUTANTS, (U)

DEC 62 139P LEE, RICHARD W. H. ;
REPT. NO. PDC SEARCH NO. 62-051 , PDL-45840

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*TEXTILES, DEGRADATION),
MICROORGANISMS, BIOLOGICAL CONTAMINATION,
ATMOSPHERE, AIR POLLUTION, MATERIALS,
LAUNDERING, LIGHT, CHEMICAL CONTAMINATION,
FUNGUS DETERIORATION, FUNGI, BACTERIA,
FUNGUSPROOFING, WEATHERPROOFING, ANTIFOULING
COATINGS, PROTECTIVE TREATMENTS, FINISHES +
FINISHING, BIBLIOGRAPHIES (U)

IDENTIFIERS: BIODETERIORATION (U)

THE BIBLIOGRAPHY IS INTENDED PRIMARILY AS A GUIDE
TO WORK DONE IN THE FIELD OF ATMOSPHERIC
DETERIORATION OF TEXTILE MATERIALS. EMPHASIS IS
PLACED UPON THE EFFECTS OF MICROBIOLOGICAL AGENTS,
WEATHERING, LIGHT, AND AIR POLLUTANTS. ALSO
INCLUDED ARE MATERIALS RELATING TO EFFECTS OF
SOILING, CHEMICALS, AND CERTAIN DELETERIOUS EFFECTS
ASSOCIATED WITH LAUNDERING. EXCLUDED ARE PAPERS
DEALING WITH SOIL BURIAL AND SOIL MICROORGANISMS,
WATER RESISTANCE AND WATERPROOFING PER SE, AND
NUCLEAR RADIATION. PAPERS LISTED ARE ARRANGED IN
THREE CATEGORIES: (1) EFFECTS OF
MICROBIOLOGICAL AGENTS; (2) EFFECTS OF LIGHT
AND WEATHERING; AND (3) EFFECTS OF CHEMICALS AND
ATMOSPHERIC POLLUTANTS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-621 545

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C
ELASTOMERS FOR HIGH TEMPERATURE APPLICATIONS, (U)
DEC 63 37P COSBY, WILLIAM A. ;
JANECKA, HANS ;
REPT. NO. PDC SEARCH NO. 63-057 , PDL-50174

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•ELASTOMERS, HEAT-RESISTANT
MATERIALS), (•BIBLIOGRAPHIES, ELASTOMERS),
VULCANIZATES, SYNTHETIC RUBBER,
AGING (MATERIALS), DEGRADATION, TIRES,
RUBBERS, SILICONE PLASTICS, ABSTRACTING,
RADIATION DAMAGE, SPACE ENVIRONMENTAL CONDITIONS,
PHYSICAL PROPERTIES (U)

A BIBLIOGRAPHY GIVING PERTINENT REFERENCES ON
'ELASTOMER REINFORCEMENT-PARTICULATE. STRENGTH
TO 500 F OF ELASTOMERIC VULCANIZATES FOR SEALS,
SEALANTS, TIRES, ETC'. IN GENERAL, THE REFERENCES
ARE CONCERNED WITH THE RESPONSE OF ELASTOMERS - WITH
AND WITHOUT REINFORCEMENTS-AT TEMPERATURES TO
APPROXIMATELY 500 F. HOWEVER, SELECTED REFERENCES
ARE INCLUDED ON THE RESPONSE OF THE SAME MATERIALS IN
COMBINED ENVIRONMENTS OF HIGH TEMPERATURE AND LOW
PRESSURE (VACUUM) OR CORPUSCULAR RADIATION.
REFERENCES ARE ALSO INCLUDED WHICH DEPICT THE
RESPONSE OF SEVERAL ELASTOMERS AT TEMPERATURES WELL
ABOVE 500 F. (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-621 546

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

PROTECTIVE COATING SYSTEMS FOR NIOBIUM IN THE RANGE
1800 - 2500 F, (U)

JAN 64 23P LYLE, R. G. ;

REPT. NO. PDL-90205

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•NIOBIUM, REFRACTORY COATINGS),
(•REFRACTORY COATINGS, NIOBIUM),
(•BIBLIOGRAPHIES, REFRACTORY COATINGS),
OXIDATION, REFRACTORY METALS, REFRACTORY METAL
ALLOYS, COATINGS, PROTECTIVE TREATMENTS,
VANADIUM ALLOYS, ABSTRACTING, HIGHTEMPERATURE
RESEARCH, METAL COATINGS (U)

A BIBLIOGRAPHY GIVING PERTINENT REFERENCES ON
'LONGTIME HIGH RELIABILITY COATINGS FOR 1800 TO
2500 F COLUMBIUM APPLICATIONS'. IN ADDITION TO
OXIDATION PROTECTION ABOVE 1800 F, INFORMATION IS
GIVEN CONCERNING DUCTILITY, FLEXIBILITY, THICKNESS,
DIFFUSIONAL STABILITY AND RESISTANCE OF COATING
SYSTEMS TO THERMAL SHOCK AND CYCLING, IMPACT ABRASION
AND VIBRATION. (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-621 547

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

REINFORCED PLASTICS AND LAMINATES FOR HOT STRUCTURES
(400 F AND ABOVE). (U)

FEB 64 18P COSBY, WILLIAM A. ;

JANECKA, HANS ;

REPT. NO. PDC SEARCH NO. 64-009 , PDL-50524

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BIBLIOGRAPHIES, HEAT-RESISTANT
PLASTICS), (•HEAT-RESISTANT PLASTICS,
BIBLIOGRAPHIES), (•STRUCTURES, HEAT-RESISTANT
PLASTICS), LAMINATED PLASTICS, STRUCTURAL PARTS,
FIBERS, MECHANICAL PROPERTIES, THERMAL
PROPERTIES, ABSTRACTING, ADHESIVES, COMPOSITE
MATERIALS, GLASS TEXTILES (U)

A BIBLIOGRAPHY ON HEAT AND OXIDATION RESISTANT
REINFORCED PLASTICS AND LAMINATES FOR LONG-TIME
STRUCTURAL USE AT TEMPERATURES OF 600 F AND ABOVE
CONSISTING PRIMARILY OF REFERENCES WHICH EVALUATE
SUCH MATERIAL SYSTEMS FROM A MECHANICAL PROPERTIES
POINT OF VIEW. REFERENCES WHICH EVALUATE THE
ELECTRICAL PROPERTIES OF THE MATERIAL SYSTEMS
SELECTED FOR THEIR STRUCTURAL APPLICABILITY ARE
INCLUDED IF THE EVALUATIONS WERE MADE AT TEMPERATURES
GREATER THAN 600 F. SELECTED DOCUMENTS ON
REINFORCEMENT FIBERS ARE INCLUDED DUE TO INTEREST IN
FINISHES AND PROCESSING CONDITIONS WHICH AID IN THE
RETENTION OF FIBER STRENGTHS AT HIGH TEMPERATURES.
THE BIBLIOGRAPHY DOES NOT CONTAIN REFERENCES WHICH
EVALUATE THE ABLATIVE CHARACTERISTICS OF THE
MATERIALS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-624 997 11/6
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
HIGH-PURITY METALS: ANNOTATED BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: REPT. NO. 1 ON ATD WORK ASSIGNMENT NO.
79, TASK 21,
DEC 65 JOP ZURICHENKO, ALEX I
REPT. NO. ATD-65-109
MONITOR: TT, 65-64830

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET AND SOVIET-BLOC
OPEN-SOURCE MATERIAL, COVERING 1959-1963 INCLUSIVE. REPT.
ON SURVEYS OF SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (METALS, PURIFICATION),
(BIBLIOGRAPHIES, METALS), USSR, ZONE MELTING,
REFINING (METALLURGY), RECRYSTALLIZATION,
CRYSTAL GROWTH (U)

HIGH-PURITY METALS: ANNOTATED BIBLIOGRAPHY BASED ON
SOVIET AND SOVIET-BLOC OPEN-SOURCE MATERIAL.

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-626 598 11/6
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
LIQUID STATE OF METALS, (U)
OCT 65 44P VVEDENSKII, DIMITRI ;
REPT. NO. ATD-8-65-95
MONITOR: TT , 66-60264

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ANNOTATED BIBLIOGRAPHY BASED ON
SOVIET-BLOC OPENSOURCE PUBLICATIONS FOR JAN 64-AUG 65.

DESCRIPTORS: (LIQUID METALS, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, LIQUID METALS), USSR,
ABSTRACTS, ALLOYS, PHYSICAL PROPERTIES,
THERMOCHEMISTRY, MELTING, EUTECTICS,
DIFFUSION, X-RAY DIFFRACTION ANALYSIS,
THERMODYNAMICS (U)

THIS ANNOTATED BIBLIOGRAPHY WAS COMPILED FROM
SOVIET-SATELLITE OPEN SOURCES PUBLISHED 1964-1965.
IT IS THE FIRST IN A SERIES. THE REPORT IS
DIVIDED INTO TWO SECTIONS WITH DATA PUBLISHED IN 1964
MAKING UP THE FIRST AND DATA PUBLISHED IN 1965
COMPRISING THE SECOND. INFORMATION COVERED
INCLUDES THE FOLLOWING: SELENIUM, IRON, CHROMIUM,
SILICON, RARE EARTH ELEMENTS, NICKEL, SODIUM ALLOYS,
ANTIMONY-BISMUTH SYSTEM, COPPER, CADMIUM-BISMUTH
ALLOY, LEAD-TIN ALLOY, MAGNETIC SUSCEPTIBILITY,
GERMANIUM, LIQUID METAL STRUCTURE, SULFUR, ALUMINUM,
ELECTRODE POLARIZATION, LIQUID METAL SELF-DIFFUSION,
ELECTROTRANSFER, INDIUM-ANTIMONY ALLOYS, TEMPERATURE
RESISTIVITY, LIQUID ALKALI METALS, RADIATION
SCATTERING, MELT DENSITY, THERMOCHEMISTRY, TIN,
HALL CONSTANT, LIQUID EUTECTICS, X-RAY DIFFRACTION
ANALYSIS, STEEL, ELECTROCONVECTIVE DIFFUSION,
GERMANIUM ALLOYS, ELECTROKINETIC EFFECT, TITANIUM,
ULTRAHIGH PRESSURE MELTING, ZIRCONIUM, ALUMINUM OXIDE
MELTING, LEAD, CORALY-SILICON SYSTEM. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-627 047 11/7 11/4
OHIO RIVER DIV LABS MARIEMONT
ANNOTATED BIBLIOGRAPHY CONCERNING AGGREGATES 1940-
1950. (U)
JAN 53 218P

UNCLASSIFIED REPORT

DESCRIPTORS: (BIBLIOGRAPHIES, MATERIALS),
(MATERIALS, CONCRETE), INDEXES, ABSTRACTS,
CERAMIC MATERIALS, ROCK(GEOLOGY), ADDIVES,
PHYSICAL PROPERTIES, THERMAL PROPERTIES,
COMPOSITE MATERIALS (U)
IDENTIFIERS: AGGREGATE (MATERIALS) (U)

THIS IS A COMPILATION INTO ONE PUBLICATION, OF
ARTICLES ON HEAVY AGGREGATE PUBLISHED BETWEEN THE
YEARS 1940 TO 1950 INCLUSIVE. THERE IS NO
ASSURANCE THAT ALL ARTICLES PUBLISHED DURING THIS
PERIOD ARE INCLUDED IN THIS REPORT. ARTICLES
DEALING WITH LIGHTWEIGHT AGGREGATES ARE NOT INCLUDED.
NO ATTEMPT HAS BEEN MADE TO LIMIT THE ARTICLES TO
ANY ONE PHASE OF INVESTIGATION. AN EXAMINATION OF
THE TABLE OF CONTENTS GIVES THE MAIN HEADINGS UNDER
WHICH THE BIBLIOGRAPHY IS ARRANGED, AND AN IDEA OF
THE SCOPE OF THE REPORT. IN ADDITION, A DETAILED
INDEX IS INCLUDED TO ENABLE THE USER TO REFER QUICKLY
TO ARTICLES LISTED. THE ABSTRACTS ARE NUMBERED,
AND THESE NUMBERS ARE USED IN THE INDEX TO ENABLE THE
USER TO FIND THE ARTICLE. THE 'AUTHOR INDEX'
ALSO USES THE ABSTRACT NUMBERS TO AID THE USER IN
LOCATING ARTICLES IF SEARCHED FOR BY AUTHOR.
(AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-630 117 11/6 12/8
BATTELLE MEMORIAL INST COLUMBUS OHIO
TITANIUM BIBLIOGRAPHY 1900-1951. (U)
DESCRIPTIVE NOTE: 1952 SUPPL.,
 53 55P ARCHER, BEVERLY J. ;
 GIBSON, ROBERT W. ;
CONTRACT: DA-33-019-ORD-722,
MONITOR: WAL , 401/174-SUPPL.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-630 129.

DESCRIPTORS: (TITANIUM, BIBLIOGRAPHIES),
MECHANICAL WORKING, TITANIUM ALLOYS, METALLURGY,
CHEMISTRY, CHEMICAL ANALYSIS,
REFINING (METALLURGY), MATERIAL FORMING,
POWDER METALLURGY, HEAT TREATMENT, JOINING,
METALLOGRAPHY, PHYSICAL PROPERTIES, MECHANICAL
PROPERTIES, SURFACE PROPERTIES, TITANIUM COMPOUNDS (U)

CONTENTS: GENERAL, RAW MATERIALS AND ORE
PREPARATION, CHEMISTRY OF TITANIUM, CHEMICAL
ANALYSIS FOR TITANIUM, EXTRACTION, REDUCTION, AND
REFINING, FOUNDRY, MECHANICAL WORKING, POWDER
METALLURGY, HEAT TREATMENT, JOINING, CLEANING,
COATING, AND FINISHING, CONSTITUTION AND PRIMARY
STRUCTURE OF TITANIUM AND ITS ALLOYS,
TRANSFORMATIONS AND RESULTING STRUCTURES,
PHYSICAL PROPERTIES, MECHANICAL PROPERTIES AND
TESTS, SURFACE PROPERTIES, ALLOYS OF TI,
APPLICATIONS OF TITANIUM, APPLICATIONS OF
TITANIUM COMPOUNDS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-630 127 11/6 13/8
BATTELLE MEMORIAL INST COLUMBUS OHIO
TITANIUM BIBLIOGRAPHY 1900-1951, (U)
52 205P BLOPHY, CHARLES A. ;
ARCHEM, BEVERLY J. ; GIBSON, ROBERT W. ;
CONTRACT: DA-33-019-ORD-722,
MONITOR: WAL , 401/174

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (TITANIUM, BIBLIOGRAPHIES),
MECHANICAL WORKING, TITANIUM ALLOYS, METALLURGY,
CHEMISTRY, CHEMICAL ANALYSIS,
REFINING (METALLURGY), PROCESSING, MATERIAL
FORMING, POWDER METALLURGY, HEAT TREATMENT,
JOINING, METALLOGRAPHY, PHYSICAL PROPERTIES,
MECHANICAL PROPERTIES, SURFACE PROPERTIES,
TITANIUM COMPOUNDS, EXTRACTION,
REDUCTION (CHEMISTRY), CLEANING, FINISHES +
FINISHING (U)

CONTENTS: GENERAL, RAW MATERIALS AND ORE
PREPARATION, CHEMISTRY OF TITANIUM, CHEMICAL
ANALYSIS FOR TITANIUM, EXTRACTION, REDUCTION, AND
REFINING, FOUNDRY, MECHANICAL WORKING, POWDER
METALLURGY, HEAT TREATMENT, JOINING, CLEANING,
COATING, AND FINISHING, CONSTITUTION AND PRIMARY
STRUCTURE OF TITANIUM AND ITS ALLOYS,
TRANSFORMATIONS AND RESULTING STRUCTURES,
PHYSICAL PROPERTIES, MECHANICAL PROPERTIES AND
TESTS, SURFACE PROPERTIES, ALLOYS OF TI,
APPLICATIONS OF TITANIUM, APPLICATIONS OF
TITANIUM COMPOUNDS. (U)

UNCLASSIFIED

DJC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-621 272 11/2 11/6 10/2
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
MATERIALS FOR HIGH-TEMPERATURE ENERGY CONVERTERS:
ANNOTATED BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: REPT. NO. 2 ON ATD WORK ASSIGNMENT NO.
79, TASK 22,
FEB 66 40P SLESARENKO, MICHAEL ;
REPT. NO. ATD-66-20,
MONITOR: TT , 66-61048

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET OPEN-SOURCE
MATERIALS, 1961-1965. REPT. ON SURVEYS OF SOVIET
SCIENTIFIC AND TECHNICAL LITERATURE. SEE ALSO AD-
625 198.

DESCRIPTORS: (*THERMIONIC CONVERTERS, *HEAT-
RESISTANT MATERIALS), (*REFRACTORY METAL ALLOYS,
THERMIONIC CONVERTERS), REFRACTORY METALS, SOLID
SOLUTIONS, SEMICONDUCTORS, PLASMA MEDIUM, USSR,
BIBLIOGRAPHIES, ABSTRACTS (U)

THE ANNOTATED BIBLIOGRAPHY WAS COMPILED FROM
SOVIET OPEN SOURCES PUBLISHED 1960-1965; IT IS THE
SECOND REPORT IN THIS SERIES. INFORMATION NOT
CONFINED TO THE ASSIGNED SUBJECT WAS INCLUDED BECAUSE
OF ITS BROAD IMPLICATIONS FOR STUDY IN THIS FIELD.
TRANSLATIONS AND ABSTRACTS AVAILABLE IN ENGLISH
ARE INDICATED WHERE APPLICABLE. THE 68 ENTRIES ARE
ARRANGED ALPHABETICALLY BY FIRST AUTHOR ONLY. AN
AUTHOR INDEX IS PROVIDED AT THE END OF THE REPORT FOR
THE CONVENIENCE OF THE USER. PERTINENT INFORMATION
COVERED INCLUDES THE FOLLOWING: SOLID SOLUTION,
PHASE DIAGRAM, RADIOISOTOPE THERMOELECTRIC GENERATOR,
SINGLE CRYSTAL, PN JUNCTION, DISCHARGE PLASMA,
TRANSITION METAL, MAGNETIC FIELD, PLASMA DEVICE,
BINARY NICKEL-BASE SOLID SOLUTION, INDIUM ANTIMONIDE,
TELLURIDES, ARSENIDES, ANODES, THERMIONIC CATHODES,
TUNGSTEN-HAFNIUM SYSTEM, ELECTRON ANALOGUE OF INDIUM
ARSENIDE, NIOBIUM-DOPED RUTILE, GERMANIUM TELLURIDE
VALENCE-BAND STRUCTURE, THIN SEMICONDUCTING FILMS,
MANGANESE-SILICON ALLOYS, URANIUM AND ZIRCONIUM
CARBIDES, PHYSICO-CHEMICAL PROPERTIES OF TUNGSTEN-
RHENIUM THERMOELECTRODES, REFRACTORY NITRIDES,
MANGANESE SELENIDE, LANTHANUM AND CERIUM SULFIDES,
ALUMINUM ANTIMONIDE, THERMIONIC ENERGY CONVERTERS,
THERMIONIC DIODE, DILICIDES, BINARY COBALT-BASE SOLID
SOLUTIONS, PLASMA THERMOELECTRIC ELEMENT, IRIIDIUM
EFFECT ON PALLADIUM. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-621 512 11/6
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
HIGH-PURITY METALS, PART II: ANNOTATED
BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: REPT. NO. 2 ON ATD WORK ASSIGNMENT NO.
79, TASK 21.
FEB 66 25P ZURICHENKO, ALEX ;
REPT. NO. ATD-66-17,
MONITOR: TT , 66-61092

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET AND COMMUNIST-
WORLD OPEN-SOURCE MATERIAL FOR 1964-65. REPT. ON
SURVEYS OF COMMUNIST WORLD SCIENTIFIC AND
TECHNICAL LITERATURE. SEE ALSO AD-624 997.

DESCRIPTORS: (*METALS, PURIFICATION),
(*BIBLIOGRAPHIES, METALS),
REFINING (METALLURGY), PARAMAGNETIC RESONANCE,
CRYSTAL GROWTH, SINGLE CRYSTALS, ZONE MELTING,
HEAT TREATMENT, SEMICONDUCTORS (U)

THE ANNOTATED BIBLIOGRAPHY WAS COMPILED FROM
SOVIET-SATELLITE OPEN SOURCES PUBLISHED 1964-
1965. THE ENTRIES ARE ARRANGED CHRONOLOGICALLY AND
DIVIDED INTO TWO PARTS BY YEAR: PART A (1964)
COMPRISES 31 ENTRIES AND PART B (1965)
INCLUDES 40 ENTRIES. OTHER ELEMENTS AND DATA
DISCUSSED: ZINC, ELECTRON PARAMAGNETIC RESONANCE,
SINGLE CRYSTAL GROWING, CHEMILUMINESCENCE, LITHIUM,
BORON, SELENIDE, MECHANICAL HEAT TREATMENT, ARSENIC,
TANTALUM, GRAPHITE, BISMUTH, CESIUM, RHENIUM,
MERCURY, IRON, VACUUM FURNACE, INDUCTION FURNACE,
LEAD, INDIUM, ZONE RECRYSTALLIZATION, VANADIUM
COMPOUND, GALLIUM, MANGANESE, TITANIUM, BERYLLIUM,
CERIUM, SINGLE CRYSTAL, BORON COMPOUND, SULFUR,
URANIUM, VACUUM REFINING, YTTRIUM, MOLYBDENUM, GOLD,
SEMICONDUCTING MATERIAL, ELECTROLYTIC REFINING,
THALLIUM, PHOSPHORUS, SILICON, ANTIMONY, TIN.
(AUTHOR) (U)

UNCLASSIFIED

RDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-633 579 11/9
HUGHES AIRCRAFT CO CULVER CITY CALIF LIBRARY
A BIBLIOGRAPHY ON POLYTETRAFLUORO ETHYLENE (TFEFLON)
PLASTICS, (U)
NOV 65 169P MILEK, J. T. ; MILCOX, H. E. ;
BLOOMFIELD, M. ;
REPT. NO. LS-815-65-3,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•HALOCARBON PLASTICS,
BIBLIOGRAPHIES), CHEMISTRY, CHEMICAL
PROPERTIES, ELECTRICAL PROPERTIES, MECHANICAL
PROPERTIES, THERMAL PROPERTIES, POLYMERIZATION (U)
IDENTIFIERS: POLYTETRAFLUORO ETHYLENE (U)

THE BIBLIOGRAPHY CONTAINS 2047 ENTRIES CONCERNING
THE CHEMISTRY, PROPERTIES (CHEMICAL, ELECTRICAL,
MECHANICAL, THERMAL), APPLICATIONS, AND
POLYMERIZATION OF POLYTETRAFLUORO ETHYLENE PLASTICS,
BASED ON THE JOURNAL AND REPORT LITERATURE WHICH HAD
APPEARED AS OF MID 1965. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000250

AD-624 224 11/9 7/3
PLASTICS TECHNICAL EVALUATION CENTER PICATINNY ARSENAL
DOVER N J
CROSSLINKING, THERMAL AND MECHANICAL PROPERTIES OF
THERMOPLASTIC AND PHENOLIC RESIN SYSTEMS; A
BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: REPT. FOR 1960-1965,
FEB 66 49P LEVI, DAVID W. ;
REPT. NO. PLASTEC NOTE-11,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (THERMOPLASTICS, BIBLIOGRAPHIES),
(PHENOLIC PLASTICS, BIBLIOGRAPHIES),
CROSSLINKING(CHEMISTRY), THERMAL PROPERTIES,
MECHANICAL PROPERTIES, ABSTRACTS (U)

AN ANNOTATED BIBLIOGRAPHY OF 184 ITEMS IS REPORTED
ON THE CROSSLINKING, THERMAL AND MECHANICAL
PROPERTIES OF THERMOPLASTIC AND PHENOLIC RESIN
SYSTEMS. IT IS LIMITED TO THE REFERENCES IN THE
AUTHOR'S PERSONAL FILE. HOWEVER, THESE COVER THE
SIGNIFICANT JOURNALS IN THE FIELD, FOR THE YEARS
1960-1965. COMPLETE SUBJECT AND AUTHOR INDEXES ARE
INCLUDED FOR THE CONVENIENCE OF THE USER.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-635 799 1179
PLASTICS TECHNICAL EVALUATION CENTER PICATINNY ARSENAL
DOVER N J
DIELECTRIC PROPERTIES OF POLYMERS. A
BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: REPORT FOR 1955-1966.
MAY 66 34P LEVI, DAVID W. ;
TEETSEL, DOROTHY A. ;
REPT. NO. PLASTEC NOTE-12.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PLASTICS, *DIELECTRIC PROPERTIES),
BIBLIOGRAPHIES, SOLUTIONS, CELLULOSIC PLASTICS,
POLYETHYLENE PLASTICS, VINYL PLASTICS,
HALOCARBON PLASTICS, POLYESTER PLASTICS, EPOXY
PLASTICS, POLYAMIDE PLASTICS (U)
IDENTIFIERS: POLYETHERS (U)

A BIBLIOGRAPHY OF 216 ITEMS IS REPORTED ON THE
DIELECTRIC PROPERTIES OF POLYMERS. IT IS LIMITED
TO THE REFERENCES IN THE AUTHOR'S PERSONAL FILE.
HOWEVER, THESE COVER THE SIGNIFICANT JOURNALS IN
THE FIELD, FOR THE YEARS 1955-1966. COMPLETE
SUBJECT AND AUTHOR INDEXES ARE INCLUDED FOR THE
CONVENIENCE OF THE USER. (AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-637 693 11/6 20/11
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C

LIGUID-METAL EMBRITTLEMENT; ANNOTATED
BIBLIOGRAPHY. (U)

DESCRIPTIVE NOTE: REPT. NO. 1 ON ATD WORK ASSIGNMENT NO.
8978.

APR 66 25P
REPT. NO. ATD-66-3A,
MONITOR: TT 66-62175

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•LIQUID METALS, •EMBRITTLEMENT),
METALLOGRAPHY, COPPER ALLOYS, STEEL, CORROSION,
MECHANICAL PROPERTIES, ZINC, MERCURY,
CRYSTALLOGRAPHY, BIBLIOGRAPHIES, USSR (U)

THE BIBLIOGRAPHY WAS COMPILED FROM SOVIET OPEN
SOURCES PUBLISHED 1959-1966 WITH ONE ENTRY FROM
JANUARY 1966. IT IS THE FIRST REPORT IN THIS
SERIES. THE 92 ENTRIES ARE ARRANGED
CHRONOLOGICALLY AND, WITHIN EACH YEAR, ALPHABETICALLY
BY AUTHOR: 1959 (1 ENTRY), 1961 (6
ENTRIES), 1962 (21 ENTRIES), 1964 (3
ENTRIES), 1965 (14 ENTRIES), AND 1966 (1
ENTRY). AN AUTHOR INDEX IS PROVIDED AT THE END OF
THE REPORT. PERTINENT INFORMATION INCLUDED:
COPPER ALLOY TESTING IN MERCURY SALT SOLUTION, CREEP
PROCESS, DIFFUSION AND SOLUBILITY COEFFICIENTS OF
MOLTEN METALS, POLYCRYSTALLINE METAL, TIN
RECRYSTALLIZATION, ALLOY STEEL NONSELECTIVE
CORROSION, SURFACE TENSION REDUCTION IN SOLID METALS,
SOFTENING ACTION OF AGGRESSIVE MELTS ON SOLID METAL,
STEEL CYCLIC TORSION IN LOW-MELTING METALS,
ADSORPTION-INDUCED REDUCTION OF STRENGTH, IRRADIATION
EFFECT ON MECHANICAL PROPERTIES, ANISOTROPY OF
ELECTRON AND GAMMA IRRADIATION EFFECT ON DEFORMATION
PROCESS, METAL CORROSION FATIGUE, EFFECT OF LOW
MELTING COATING ON MECHANICAL PROPERTIES OF METALS,
METAL DIFFUSION IN LIQUID COPPER. (AUTHOR) (U)

UNCLASSIFIED

UDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-640 402 11/6 8/1 12/8
NAVAL APPLIED SCIENCE LAB BROOKLYN N Y
BIBLIOGRAPHY ON MICROBIOLOGICAL CORROSION (DEEP
SEA). (U)
DESCRIPTIVE NOTE: TECHNICAL MEMO.,
JUN 65 25P
REPT. NO. TM-1,
PROJ: SM-004-U3-U1,9400-72
TASK: 0539,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (CORROSION, MICROBIOLOGY,
BIBLIOGRAPHIES, DEEP SUBMERGENCE, BACTERIA,
CORROSION INHIBITION, MARINE BIOLOGY,
MICROORGANISMS, DEGRADATION (U)

THE BIBLIOGRAPHY COVERS THE SIGNIFICANT LITERATURE
ON MARINE MICROORGANISMS KNOWN TO BE EFFECTIVE IN
PROMOTING CORROSION AND DETERIORATION OF MATERIALS,
WITH PARTICULAR REFERENCE TO MICROORGANISMS FOUND IN
THE OCEAN DEPTHS. BRIEF COMMENTS ARE INCLUDED FOR
EACH REFERENCE CITED EXCEPT FOR THOSE SIGNIFICANT
ARTICLES WHICH WERE NOT READILY OBTAINABLE. PAPERS
CONCERNING THE EFFECTS ON HIGH HYDROSTATIC PRESSURES
AND LOW AMBIENT TEMPERATURES OF THE OCEAN DEPTHS ON
THE ENZYMATIC MECHANISMS OF CERTAIN MICROBIAL SPECIES
ARE LISTED FOR REFERENCE IN FUTURE WORK ALONG THESE
LINES IN CONJUNCTION WITH DETERIORATION AND
CORROSION. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-641 666 1179
PLASTICS TECHNICAL EVALUATION CENTER PICATINNY ARSENAL
DOVER N J
SUBJECT INDEX, BIBLIOGRAPHY, AND CODE DESCRIPTION OF
TECHNICAL CONFERENCE PAPERS ON PLASTICS: 5 MARCH
1965 - 10 MARCH 1966, (U)
JUL 66 137P TITUS, JOAN B. I
MOLZON, ARNOLD E. I
REPT. NO. PLASTEC-27

UNCLASSIFIED REPORT

DESCRIPTORS: (*PLASTICS, BIBLIOGRAPHIES),
SYMPOSIA, INDEXES, CLASSIFICATION, PHYSICAL
PROPERTIES, MECHANICAL PROPERTIES, MANUFACTURING
METHODS (U)

THE PAPERS PRESENTED AT TECHNICAL CONFERENCES ON
PLASTIC MATERIALS AND RELATED TECHNOLOGY, WITHIN A
ONE YEAR PERIOD ENDING 10 MARCH 1966 ARE LISTED,
INDEXED BY SUBJECT, AND COMPILED BY MATERIAL, TYPE OF
TECHNICAL DATA, AND MILITARY APPLICATION. OVER 690
PAPERS FROM 20 CONFERENCES ARE COVERED. INCLUDED
ARE A BIBLIOGRAPHY, AUTHOR INDEX, SUMMARY OF NEW
MATERIAL DEVELOPMENTS, AND A LIST OF APPLICATIONS AND
PROGRAMS SPONSORED BY THE DEPARTMENT OF DEFENSE
AND THE NATIONAL AERONAUTICS AND SPACE
ADMINISTRATION. (AUTHOR) (U)

UNCLASSIFIED

ODC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-641 911 11/2 8/7 20/2
PENNSYLVANIA STATE UNIV UNIVERSITY PARK MATERIALS RESEARCH
LAB

RELATION OF MECHANICAL PROPERTIES TO THE STRUCTURE OF
IONIC SOLIDS. (U)

DESCRIPTIVE NOTE: QUARTERLY REPT. NO. 1, 1 JUN-31 AUG
66,

SEP 66 41P VEDAM, K. IVAND, V. I
CONTRACT: DA-19-066-AMC-325(X)
MONITOR: AMRA CR-66-07/1

UNCLASSIFIED REPORT

DESCRIPTORS: (MICA, CRYSTAL STRUCTURE),
(CERAMIC MATERIALS, DUCTILITY), MECHANICAL
PROPERTIES, CRYSTAL GROWTH,
SYNTHESIS(CHEMISTRY), BIBLIOGRAPHIES (U)

THE PRIMARY OBJECTIVE OF THIS PROJECT IS TO STRIVE
TOWARDS THE GOAL OF AN IDEAL DUCTILE CERAMIC (I)
BY CARRYING OUT INVESTIGATIONS ON THE VARIOUS
MECHANICAL PROPERTIES OF DIFFERENT MICA SPECIES
(II) BY DETERMINING THE CRYSTAL STRUCTURE OF SOME
OF THESE SELECTED MICAS AND CORRELATING THE RESULTS
WITH THEIR MECHANICAL PROPERTIES AND (III) BY
TAILOR-MAKING SUITABLE MATERIALS FROM A KNOWLEDGE OF
THE MECHANISM RESPONSIBLE FOR THE UNIQUE MECHANICAL
PROPERTIES OF MICA. AN EXTENSIVE BIBLIOGRAPHY ON
THE VARIOUS PHYSICAL PROPERTIES OF MICA AND ITS
SYNTHESIS AND CRYSTAL GROWTH IS INCLUDED.
(AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-642 128 11/6
NAVAL RESEARCH LAB WASHINGTON D C
AN ANNOTATED BIBLIOGRAPHY OF RECENT PAPERS AND
REPORTS ON THE SUBJECT OF AMBIENT TEMPERATURE AQUEOUS
STRESS-CORROSION CRACKING OF TITANIUM AND TITANIUM
ALLOYS, (U)
OCT 66 6P DAHLBERG, E. P. I
REPT. NO. NRL-BIB-29
CONTRACT: ARPA ORDER-878

UNCLASSIFIED REPORT

DESCRIPTORS: (*TITANIUM, STRESS CORROSION),
(*TITANIUM ALLOYS, *STRESS CORROSION),
BIBLIOGRAPHIES, FRACTURE (MECHANICS), SEA WATER,
SOLUTIONS (U)

A LISTING IS PRESENTED OF SIXTEEN RECENT PAPERS AND
REPORTS WHICH DEAL WITH STRESS-CORROSION CRACKING
STUDIES OF TITANIUM AND TITANIUM ALLOYS. THE
COMPILATION IS LIMITED TO CRACKING PHENOMENA IN
AQUEOUS SOLUTIONS AT OR NEAR ROOM TEMPERATURE. A
BRIEF SUMMARY OF THE IMPORTANT ASPECTS OF EACH REPORT
IS INCLUDED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-643 025 11/9 7/3
PLASTICS TECHNICAL EVALUATION CENTER DOVER N J
FERROCENE POLYMERS: AN ANNOTATED BIBLIOGRAPHY., (U)
SEP 66 33P LEVI, DAVID W. I
REPT. NO. PLASTEC NOTE-15

UNCLASSIFIED REPORT

DESCRIPTORS: (*POLYMERS, FERROCENES),
(*FERROCENES, BIBLIOGRAPHIES), HEAT-RESISTANT
PLASTICS, METALORGANIC COMPOUNDS, ABSTRACTS (U)

AN ANNOTATED BIBLIOGRAPHY OF 46 ITEMS IS REPORTED
ON FERROCENE POLYMERS. IT IS LIMITED TO THE
REFERENCES IN THE AUTHOR'S PERSONAL FILE. HOWEVER,
THESE COVER THE SIGNIFICANT JOURNALS IN THE FIELD,
FOR THE PERIOD 1956-1966. COMPLETE SUBJECT AND
AUTHOR INDEXES ARE INCLUDED. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-647 872 11/6

NAVAL APPLIED SCIENCE LAB BROOKLYN N Y
BIBLIOGRAPHY AND INDEX OF NAVAL APPLIED SCIENCE
LABORATORY TECHNICAL REPORTS ON HIGH STRENGTH
STEELS.

(U)

DESCRIPTIVE NOTE: PROGRESS REPT. NO. 5, 1959-1966,
FEB 67 68P GINSBERG, F. I STERN, I. L. I

PROJ: NASL-9300-1

TASK: SF-020-01-01, SF-020-01-02

UNCLASSIFIED REPORT

DESCRIPTORS: (STEEL, NAVAL RESEARCH),
(WELDING, STEEL), NAVAL RESEARCH
LABORATORIES, WELDS, BIBLIOGRAPHIES, SUBJECT
INDEXING, STRESSES, STRESS RELIEVING, MECHANICAL
PROPERTIES

(U)

IDENTIFIERS: STEEL HY-80, STEEL HY-130

(U)

A BIBLIOGRAPHY AND SUBJECT INDEX WAS PREPARED OF
NAVAL APPLIED SCIENCE LABORATORY TECHNICAL
REPORTS COVERING PERTINENT INFORMATION ON 80,000 PSI
TO 210,000 PSI YIELD STRENGTH STEELS, WITH EMPHASIS
ON HY-80 AND HY-130 WELDMENTS. WORK IN THESE
REPORTS DEALS WITH TRANSFER OF BASIC LABORATORY DATA
TO PRODUCTION APPLICATIONS. PRIMARY AREAS OF
CONCERN ARE WELDABILITY, WELDING PROCEDURES AND
MATERIALS, STATIC AND DYNAMIC MECHANICAL PROPERTIES
(INCLUDING LARGE SCALE FATIGUE), EXPLOSION BULGE,
FORMING, STRESS RELIEVING AND RESIDUAL STRESSES.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-647 955 11/2 7/4 20/13
AIR FORCE MATERIALS LAB WRIGHT-PATTERSON AFB OHIO
THERMODYNAMICS OF CERTAIN REFRACTORY COMPOUNDS.
VOLUME II. THERMODYNAMIC TABLES, BIBLIOGRAPHY, AND
PROPERTY FILE: SECTIONS VII, VIII, IX, (U)
66 792P SCHICK, HAROLD L. ;
PROJ: AF-7360
TASK: 736001

UNCLASSIFIED REPORT

AVAILABILITY: HARD COPY AVAILABLE FROM ACADEMIC
PRESS, INC., 111 FIFTH AVE., NEW YORK, N.
Y., 10003.

SUPPLEMENTARY NOTE: SEE ALSO AD-642 550.

DESCRIPTORS: (*REFRACTORY MATERIALS,
*THERMODYNAMICS), (*BORIDES, THERMAL
PROPERTIES), (*CARBIDES, THERMAL PROPERTIES),
(*NITRIDES, THERMAL PROPERTIES), (*OXIDES,
THERMAL PROPERTIES), TABLES, PHASE STUDIES,
CRYSTAL STRUCTURE, HEAT OF FORMATION, SPECIFIC
HEAT, ENTROPY, MELTING POINT, HEAT OF
SUBLIMATION, VAPORIZATION, BIBLIOGRAPHIES,
INDEXES (U)

THE WORK INCLUDES A STUDY OF THE THERMODYNAMICS OF
THE BORIDES, CARBIDES, NITRIDES, AND OXIDES OF 31
ELEMENTS IN THE TEMPERATURE RANGE FROM 0 TO 6000K.
THE ELEMENTS ARE (A) GROUP II A -- BERYLLIUM,
MAGNESIUM, CALCIUM, AND STRONTIUM; (B) GROUP III
B -- SCANDIUM, YTTRIUM, AND LANTHANUM; (C)
GROUP IV A -- SILICON; (D) GROUP IV B --
TITANIUM, ZIRCONIUM, AND HAFNIUM; (E) GROUP V B
-- VANADIUM, NIOBIUM, AND TANTALUM; (F) GROUP
VI B -- CHROMIUM, MOLYBDENUM, AND TUNGSTEN; (G)
GROUP VII B -- MANGANESE, TECHNETIUM, AND RHENIUM;
(H) GROUP VIII -- RHODIUM, OSMIUM, IRIDIUM, AND
PLATINUM; (I) RARE EARTHS -- CERIUM, NEODYMIUM,
SAMARIUM, GADOLINIUM, AND DYSPROSIUM; AND (J)
URANIUM AND THORIUM. MORE THAN 160 THERMODYNAMIC
TABLES, TOGETHER WITH COMPREHENSIVE DISCUSSIONS, WERE
PREPARED. VOLUME 2 IS A COMPILATION OF
THERMODYNAMIC TABLES GENERATED ON THIS PROJECT. IT
ALSO CONTAINS A BIBLIOGRAPHY AND PROPERTY FILE.
THE LATTER IS ESSENTIALLY A SUBJECT INDEX FOR USE
WITH THE BIBLIOGRAPHY. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-650 806 11/8 12/9
FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OHIO
NEWS IN MACHINE LUBRICANTS (CHAPTER IV AND V), (U)
FEB 67 141P KOROVCHINSKII, M. V. ;
REPT. NO. FTD-MT-65-401
MONITOR: TT 67-61601

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: EDITED MACHINE TRANS. OF MONO. NOVOS
O SMAZKE V MASHINAKH, MOSCOW, 1964 P68-176.

DESCRIPTORS: (*LUBRICANTS, *RHEOLOGY),
(*ROLLER BEARINGS, LUBRICATION), CYLINDRICAL
BODIES, ELASTICITY, HYDRODYNAMICS, OILS, FLUID
FLOW, COMPRESSIVE PROPERTIES, THERMAL PROPERTIES,
VISCOSITY, FRICTION, THRUST BEARINGS,
BIBLIOGRAPHIES (U)

LIMITING CASES OF A TWO-DIMENSIONAL ELASTO-
HYDRODYNAMIC PROBLEM FOR TWO CYLINDERS WITH PARALLEL
GENERATRICES ARE ANALYZED. THE VALUES ARE FOUND
FOR FINITE EXTENSION OF A LUBRICATING LAYER AT WHICH
THE OIL FLOW DEVIATES SCARCELY FROM A PLANE AND THE
INFLUENCE OF COMPRESSIBILITY OF THE LUBRICANT AND
HEAT EMISSION IN THE LUBRICATING LAYER ON ITS
SUPPORTING POWER AND PRESSURE DISTRIBUTION IN IT IS
ANALYZED. THE EFFECT OF A CHANGE IN VISCOSITY WITH
THE CHANGE IN TEMPERATURE ON AN ADIABATIC FLOW OF AN
INCOMPRESSIBLE LUBRICANT IS EXAMINED. EXPERIMENTS
WITH SMALL LOADS ON CYLINDERS ARE DESCRIBED. THE
ABOVE-MENTIONED PROBLEM IS ALSO ANALYZED FOR THE CASE
OF LOCAL CONTACT BETWEEN GENERATRICES AND A METHOD IS
GIVEN TO SOLVE A PROBLEM CONCERNED WITH JOURNALING
FLOW OF A LUBRICANT AND RELATIVE SLIP OF AN ELASTIC
CYLINDER FOR SMALL VALUES OF RIGIDITY NUMBERS. AN
EXTENSIVE BIBLIOGRAPHY IS INCLUDED OF THE 1961
LITERATURE ON THEORY AND CALCULATIONS OF THRUST
BEARINGS, AND ON LUBRICANTS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-693 837 11/9 11/10 11/1 15/5
PLASTICS TECHNICAL EVALUATION CENTER DOVER N J
MILITARY APPLICATIONS OF PLASTICS AND RELATED
MATERIALS,
MAY 67 34P LANDROCK, ARTHUR H. ;
BALDANZA, NICHOLAS T. ;
REPT. NO. PLASTEC NOTE-16

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: (*ARMED FORCES SUPPLIES,
PLASTICS), (*PLASTICS, STATE-OF-THE-ART
REVIEWS), (*ELASTOMERS, STATE-OF-THE-ART
REVIEWS), (*PLASTIC COATINGS, STATE-OF-THE-ART
REVIEWS), ADHESIVES, SEALING COMPOUNDS,
REINFORCED PLASTICS, VEHICLES, STRUCTURAL PARTS,
AIRCRAFT, WEAPONS, AMMUNITION, OPTICAL
MATERIALS, ARMOR, STRUCTURES, PACKAGING,
EXPANDED PLASTICS, BIBLIOGRAPHIES

(U)

PLASTICS, ELASTOMERS, POLYMERIC COATING MATERIALS,
ADHESIVES AND SEALANTS ARE RAPIDLY INCREASING IN
IMPORTANCE FOR USE IN MILITARY APPLICATIONS. THE
REPORT GIVES A TO-DATE REVIEW OF THESE USES.
INCLUDED IN THE DISCUSSION ARE PLASTICS
APPLICATIONS IN SUCH END ITEMS AS VEHICLES, WEAPONS
AND MISSILES, ARMOR AND AMMUNITION, SHELTERS AND
BUILDINGS, PACKS AND CONTAINERS, AND MEDICAL-SURGICAL
DEVICES. THE BIBLIOGRAPHY CONSISTS OF 99 ITEMS.
(AUTHOR)

(U)

MATHEMATICAL SCIENCES

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-403 790

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
NONLINEAR ORDINARY DIFFERENTIAL EQUATIONS: AN
ANNOTATED BIBLIOGRAPHY.

(U)

MAR 63 107P EVANS, COMP. BY GEORGE R. I
MONITOR: UNCLASSIFIED REPORT

UNCLASSIFIED REPORT

DESCRIPTORS: •NONLINEAR DIFFERENTIAL EQUATIONS,
•BIBLIOGRAPHIES. FLUID MECHANICS, BOUNDARY
LAYER, NONLINEAR SYSTEMS, COMMUNICATION THEORY,
CONTROL SYSTEMS, THEORY, TOPOLOGY.

DIFFERENTIAL EQUATIONS.

(U)

IDENTIFIERS: INITIAL VALUE PROBLEM.

(U)

THE PRIMARY AREA OF INTEREST OF THE SEARCH IS THE
EXISTENCE AND UNIQUENESS OF SOLUTION TO ORDINARY
DIFFERENTIAL EQUATIONS FOR THE FOLLOWING TWO CLASSES
OF PROBLEMS: INITIAL VALUE PROBLEMS AND BOUNDARY
VALUE PROBLEMS. ALSO INCLUDED ARE ACTUAL
CONSTRUCTION OF SOLUTIONS. EXCLUDED ARE STABILITY
OF SOLUTIONS AND EQUATIONS WITH PERIODIC SOLUTIONS,
OR EQUATIONS WITH PERIODIC COEFFICIENTS. ARRANGEMENT
IS CHRONOLOGICAL AND THE PERIOD COVERED IS 1949-
OCTOBER 1962. IT IS SUGGESTED THAT FOR
LITERATURE PRIOR TO 1949 THE BIBLIOGRAPHY BY DA
SILVA DIAS BE CONSULTED (CITATION NO.
1P). SEARCH WAS COMPLETED OCTOBER 1962.
(AUTHOR)

(U)

UNCLASSIFIED

ODC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-414 115

GENEVA UNIV (SWITZERLAND)

A BIBLIOGRAPHY ON FUNCTIONAL EQUATIONS. (U)

DESCRIPTIVE NOTE: ANNUAL SUMMARY REPT. NO. 1,

APR 63 74P TARGONSKI, GYORGY I. I

CONTRACT: AF61 052 602

MONITOR: AFOSH 4973

UNCLASSIFIED REPORT

DESCRIPTORS: (BIBLIOGRAPHIES, FUNCTIONS),

EQUATIONS (U)

IDENTIFIERS: FUNCTIONAL EQUATIONS. (U)

THIS IS A BIBLIOGRAPHY ON THE LITERATURE OF FUNCTIONAL EQUATIONS, UP TO APPROXIMATELY THE MIDDLE OF 1962. IT CONSISTS OF TWO PARTS: A LIST OF PAPERS AND BOOKS UP TO THE END OF 1945, AND A SIMILAR LIST FROM 1946 ON, WITH REMARKS ON THE CONTENTS. THIS SUB-DIVISION IS DUE TO THE FACT THAT THE AUTHOR WAS NOT ABLE TO DEVOTE MORE THAN A FRACTION OF HIS TIME TO THIS WORK. IT IS PLANNED THAT THE FIRST PART SHALL BE RE-EDITED WITH COMMENTS SIMILAR TO THE SECOND, AND EVENTUALLY THE WHOLE BIBLIOGRAPHY SHALL BE STREAM LINED INTO A WHOLE. IN ORDER TO COMPILE SUCH A BIBLIOGRAPHY, IT WAS NECESSARY FIRST TO DEFINE A FUNCTIONAL EQUATION. THIS HAS BEEN DONE IN THE PAST SEVERAL WAYS, SOME OF WHICH APPEAR TOO WIDE, OTHERS TOO NARROW. IN THE MOST GENERAL CASE, A FUNCTIONAL EQUATION IS AN EQUATION WHICH SERVES TO DETERMINE ONE, OR MORE UNKNOWN FUNCTIONS, OR CLASSES OF SUCH FUNCTIONS. IN THIS SENSE, EVERY DIFFERENTIAL, -DIFFERENCE, AND INTEGRAL EQUATION IS ALSO A FUNCTIONAL EQUATION; TO COMPILE A BIBLIOGRAPHY ON SUCH A WIDE CLASS IS ALMOST CERTAINLY IMPOSSIBLE AND MOST CERTAINLY UNNECESSARY. (U)

UNCLASSIFIED

DGC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-416 525

STANFORD UNIV CALIF APPLIED MATHEMATICS AND STATISTICS
LABS

(NO TITLE).

(U)

DESCRIPTIVE NOTE: FINAL STATUS REPT., 1 JUNE 58-31 MAY
67.

MAR 63 4P DELEEUW, KAREL J
MONITOR: AFOSR 4847

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (RESEARCH PROGRAM ADMINISTRATION,
MATHEMATICS), (BIBLIOGRAPHIES, ALGEBRAS),
GROUPS, FUNCTIONAL ANALYSIS

(U)

IDENTIFIERS: 1962

(U)

FINAL REPORT ON RESEARCH PROJECT IN FUNCTION SPACES
AND ALGEBRAS ON GROUPS INCLUDING BIBLIOGRAPHY OF NOTES
AND PUBLICATIONS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-420 696

CORNELL UNIV ITHACA N Y

COLLECTED TECHNICAL PAPERS, VOLUME 2, (U)

196P ROSENBLATT, F. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MATHEMATICAL MODELS, BRAIN),
(*BIONICS, MATHEMATICAL ANALYSIS), (*DATA STORAGE
SYSTEMS), (*NETWORKS, MATHEMATICAL MODELS), MEMORY,
SIMULATION, PERCEPTION, DETECTION, COMPUTER STORAGE
DEVICES, NERVOUS SYSTEM, NERVE CELLS, THEORY, MODELS
(SIMULATIONS), BIBLIOGRAPHIES, NUMERICAL ANALYSIS (U)
IDENTIFIERS: 1963, PERCEPTRONS, TOBERMORY SYSTEM,
COGNITIVE SYSTEMS, NEURAL NETWORKS (U)

THE COGNITIVE SYSTEMS RESEARCH PROGRAM, IS
PRIMARILY CONCERNED WITH THE STUDY OF MODELS OF
CENTRAL NERVOUS SYSTEM FUNCTIONING, AND THE TESTING
AND VERIFICATION OF SUCH MODELS BY MEANS OF
BIOLOGICAL EXPERIMENTS. THE TWELVE PAPERS IN THIS
VOLUME PRESENT THE RESULTS OF WORK PERFORMED UNDER
THE COGNITIVE SYSTEMS RESEARCH PROGRAM SINCE
THE PUBLICATION OF THE FIRST VOLUME OF COLLECTED
TECHNICAL PAPERS IN JANUARY, 1961. THE PAPERS
ARE DIVIDED INTO THE FOLLOWING MAIN GROUPS,
REFLECTING THE PRINCIPAL AREAS OF RESEARCH CONDUCTED
BY THE PROGRAM: (1) MATHEMATICAL THEORY OF
NEURAL NETWORKS (THE FIRST FOUR PAPERS). (2)
BIOCHEMISTRY (ONE PAPER). (3) SIMULATION AND
NUMERICAL EXPERIMENTS (FOUR PAPERS). (4)
PHYSICAL MODELS AND ENGINEERING STUDIES (TWO
PAPERS). (5) A BIBLIOGRAPHY OF PUBLISHED WORK ON
PERCEPTRONS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-426 275

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA
OPERATIONS RESEARCH (SUPPLEMENT). A DDC REPORT
BIBLIOGRAPHY.

(U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR JAN 53-OCT 63,
JAN 64 IV MURFREE, FULLER E. ;
HERCULES, WENDELL L. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (OPERATIONS RESEARCH, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, OPERATIONS RESEARCH), GAME THEORY,
QUEUEING THEORY, LINEAR PROGRAMMING, STOCHASTIC
PROCESSES, OPTIMIZATION, MONTE CARLO METHOD, TIME LAG
THEORY, LANCHESTER EQUATIONS

(U)

IDENTIFIERS: 1963, DYNAMIC PROGRAMMING

(U)

THIS BIBLIOGRAPHY ON OPERATIONS RESEARCH IS AN
UPDATING AND BROADENING OF THE SCOPE OF AD-269 790;
IT INCLUDES REFERENCES TO DOCUMENTS ACCESSIONED BY
DDC DURING THE PERIOD JANUARY 1953 THROUGH
OCTOBER 1963. AREAS COVERED INCLUDE BOTH THE
SPECIAL MATHEMATICAL DISCIPLINES AND METHODS
DEVELOPED UNDER OPERATIONS RESEARCH AND THEIR
APPLICATION TO MANAGEMENT AND ENGINEERING PROBLEMS:
ALLOCATION THEORY, DECISION THEORY, GAME THEORY,
INVENTORY THEORY, LANCHESTER EQUATIONS, LINEAR
PROGRAMMING, DYNAMIC PROGRAMMING, NONLINEAR
PROGRAMMING, QUEUEING THEORY REPLACEMENT THEORY,
STOCHASTIC PROCESSES AND THE TRANSPORTATION PROBLEM.
SPECIAL FIELDS OF APPLICATION CONSIDERED IN THE
BIBLIOGRAPHY INCLUDE, COMMUNICATIONS, ECONOMICS,
MILITARY OPERATIONS, LOGISTICS AND TRANSPORTATION.
THIS VOLUME IS RESTRICTED TO UNLIMITED UNCLASSIFIED
REFERENCES. THE CLASSIFIED AND LIMITED
UNCLASSIFIED APPEAR AS A SEPARATE VOLUME IDENTIFIED
AS AD-346 097.

(U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-427 526

SYRACUSE UNIV N Y

PROBLEMS ON MEROMORPHIC FUNCTIONS.

DESCRIPTIVE NOTE: FINAL REPT., 1 JULY 59-30 JUNE 63, (U)

3P EDREI, ALBERT ;

CONTRACT: AF49 628 371

MONITOR: AFGSR J1526

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (FUNCTIONS, RESEARCH PROGRAM (U)
ADMINISTRATION), BIBLIOGRAPHY, COMPLEX VARIABLES

IDENTIFIERS: MEROMORPHIC FUNCTIONS (U)

FOR A FOUR-YEAR PERIOD, THE FIELD OF MEROMORPHIC
FUNCTIONS WAS RESEARCHED. STRESS WAS PLACED ON THE
STUDY OF NEVANLINNA'S THEORY, PARTICULARLY THE
NOTION OF 'DEFICIENT VALUE.' BIBLIOGRAPHIC DATA
ARE INCLUDED OF PAPERS WRITTEN ON THIS TOPIC.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-601 886

PURDUE UNIV LAFAYETTE IND
A HANDBOOK OF STATISTICAL CLASSIFICATION
TECHNIQUES.

(U)

44 136P KOSSACK, CARL F. ;
CONTRACT: NONR1100 11

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*HANDBOOKS, STATISTICAL DISTRIBUTIONS),
(*STATISTICAL DISTRIBUTIONS, HANDBOOKS), STATISTICAL
ANALYSIS, POPULATION (MATHEMATICS), STATISTICAL
FUNCTIONS, PROBABILITY, BIBLIOGRAPHIES

(U)

IDENTIFIERS: CLASSIFICATION TECHNIQUES

(U)

CONTENTS: GLOSSARY OF TERMS AND NOTATIONAL
CONVENTIONS; A BRIEF HISTORY OF CLASSIFICATION
THEORY; THE GENERAL CHARACTERISTICS OF
CLASSIFICATION TECHNIQUES; THE ILLUSTRATIVE
EXAMPLE; THE CLASSIFICATION TECHNIQUES- (A) NON-
PARAMETRIC CLASSIFICATION, (B) CATEGORICAL
CLASSIFICATION, (C) GENERAL PARAMETRIC
CLASSIFICATION, (D) THE WALD CLASSIFICATION
STATISTIC, (E) THE PURDUE CLASSIFICATION
STATISTIC, (F) THE ANDERSON CLASSIFICATION
STATISTIC, AND (G) THE SHAW CLASSIFICATION
STATISTIC; THE MULTI-POPULATION PROBLEM; AND
BIBLIOGRAPHY ON CLASSIFICATION AND RELATED TOPICS.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-603 387

RAND CORP SANTA MONICA CALIF

DYNAMIC PROGRAMMING: A BIBLIOGRAPHY OF THEORY AND APPLICATION.

(U)

AUG 64 149P

BELLMAN, RICHARD ;

KANUSH, REBECCA ;

REPT. NO. RM-3951-1-PR

CONTRACT: AF49 638 700

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, DYNAMIC PROGRAMMING),
(DYNAMIC PROGRAMMING, BIBLIOGRAPHIES), MATHEMATICAL
PROGRAMMING, THEORY

(U)

THIS BIBLIOGRAPHY IS DIVIDED INTO THREE PARTS:
FIRST, THERE IS A CHRONOLOGICAL ORDERING OF
PUBLICATIONS, WITH AUTHORS LISTED ALPHABETICALLY
UNDER EACH YEAR; SECOND, AN ALPHABETICAL INDEX OF
AUTHORS; THIRD, A SUBJECT INDEX, WITH AUTHORS LISTED
ALPHABETICALLY UNDER EACH SUBJECT CATEGORY. THE
SUBJECT INDEX INCLUDES: ALLOCATION PROCESSES,
CALCULUS OF VARIATIONS, COMMUNICATIONS AND
INFORMATION THEORY, CONTROL PROCESSES, EQUIPMENT
REPLACEMENT AND INVENTORY THEORY, GAME THEORY,
MAXIMIZATION AND MINIMIZATION, MULTISTAGE PRODUCTION
AND SCHEDULING THEORY, OPTIMAL ROUTING AND TRAJECTORY
THEORY, MATHEMATICAL PHYSICS, RELIABILITY, SEARCH
PROCESSES, SEQUENTIAL ANALYSIS, TRANSPORTATION
PROCESSES, STOCHASTIC VARIATIONAL PROCESSES, ADAPTIVE
PROCESSES, ANALYTIC RESULTS, COMPUTATIONAL ASPECTS
AND SURVEYS.

(U)

UNCLASSIFIED

UDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-603 667

MARTIN CO DENVER COLO

PRODUCTS AND QUOTIENTS OF RANDOM VARIABLES AND THEIR APPLICATIONS. (U)

DESCRIPTIVE NOTE: REPT. FOR SEP 63-MAR 64,

JUL 64 100P DONAHUE, JAMES D. ;

CONTRACT: AF33 615 1023

PROJ: 7071

TASK: 707101

MONITOR: ARL , 64 115

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*STATISTICAL ANALYSIS, ENGINEERING),
(*STATISTICAL DISTRIBUTIONS, DISTRIBUTION THEORY),
(*DISTRIBUTION THEORY, BIBLIOGRAPHIES), STATISTICAL
FUNCTIONS, STATISTICAL PROCESSES, MATHEMATICAL MODELS,
TABLES, GUNS, CYCLIC RATE, BOOSTER MOTORS, SELECTION,
LIFE SUPPORT, CLOSED ECOLOGICAL SYSTEMS, DIFFERENTIAL
EQUATIONS, RADIATION MEASUREMENT SYSTEMS, MANAGEMENT
PLANNING (U)

IDENTIFIERS: RANDOM VARIABLES, PERT MODEL, M-39 GUNS
(20 MM) (U)

IN THIS REPORT, THE GENERAL TECHNIQUES FOR
DETERMINING THE DISTRIBUTIONS OF PRODUCTS AND
QUOTIENTS OF RANDOM VARIABLES ARE DISCUSSED. SOME
EXACT AND ASYMPTOTIC RESULTS PERTAINING TO THE
DISTRIBUTIONS OF THE PRODUCTS AND QUOTIENTS OF
CERTAIN RANDOM VARIABLES WHICH GENERALLY OCCUR AS
MEASUREMENT ERROR ARE ALSO PRESENTED TOGETHER WITH
THEIR APPLICATIONS. AN EXTENSIVE BIBLIOGRAPHY IS
INCLUDED AT THE END OF THE REPORT. (AUTHOR (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-A10 435

MCGILL UNIV MONTREAL (QUEBEC)

CERTAIN STUDIES OF THE STRUCTURE AND STATISTICS OF
THE LOGARITHMIC SERIES DISTRIBUTION AND RELATED
TABLES. (U)

DESCRIPTIVE NOTE: REPT FOR JUN 63-AUG 64,
NOV 64 396P PATIL,G. P. (KAMAT,A. R.)
WANI,J. K. ;

CONTRACT: AF33 657 11559

PROJ: 7071

TASK: 707101

MONITOR: ARL , 64 197

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (STATISTICAL DISTRIBUTIONS, FUNCTIONS),
(FUNCTIONS, STATISTICAL DISTRIBUTIONS), STATISTICAL
ANALYSIS, ECOLOGY, PROBABILITY, STATISTICAL FUNCTIONS,
CALCULUS OF VARIATIONS, STOCHASTIC PROCESSES,
STATISTICAL DATA, TABLES, BIBLIOGRAPHIES (U)
IDENTIFIERS: LOGARITHMIC SERIES DISTRIBUTION (U)

THE REPORT STUDIES THE STRUCTURE AND STATISTICS OF
THE LOGARITHMIC SERIES DISTRIBUTION (LSD) AND
PROVIDES A FEW USEFUL TABLES THAT ARE INTIMATELY
RELATED TO THESE STUDIES. IT INVESTIGATES CRUDE AND
CENTRAL MOMENTS, INCOMPLETE MOMENTS, FACTORIAL
MOMENTS, ABSOLUTE MOMENTS, GEARY RATIOS AND
DEVELOPS A FEW INTERESTING CHARACTERIZATIONS FOR THE
LSD. IT CONSIDERS ESTIMATION PROBLEMS FOR THE
LSD USING METHODS OF MAXIMUM LIKELIHOOD ESTIMATION
AND THE MINIMUM VARIANCE UNBIASED ESTIMATION. IT
RECORDS SOME OF THE DIFFERENT FORMULATIONS OF THE
LSD AS A PROBABILITY MODEL AND DISCUSSES BRIEFLY
DIFFERENT TYPES OF APPLICATIONS ILLUSTRATED WITH REAL
DATA COLLECTED FROM DIVERSIFIED FIELDS OF
APPLICATION. IT ATTEMPTS IN PARTICULAR TO ANALYZE
AT LENGTH THE R. A. FISHER'S REASONING TO THE
ECOLOGICAL PROBLEM OF SPECIES AND INDIVIDUALS THAT
ORIGINALLY LED TO THE LSD. IT PROVIDES AN
EXTENSIVE BIBLIOGRAPHY ON THE LSD AND RELATED
TOPICS. AMONG A FEW OTHER IMPORTANT TABULATIONS,
IT PROVIDES EXTENSIVE TABLES FOR THE PROBABILITY AND
DISTRIBUTION FUNCTIONS OF THE LSD. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-612 955

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
SDC RESEARCH AND TECHNOLOGY DIVISION EXTERNAL
PUBLICATIONS 1961-1964,
JAN 65 21P RAUM, C. SHEROLD, V. P. I
REPT. NO. TM-698/064/00

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (OPERATIONS RESEARCH, SYSTEMS
ENGINEERING), (SYSTEMS ENGINEERING, BIBLIOGRAPHIES),
(DATA PROCESSING SYSTEMS, SYSTEMS ENGINEERING),
(ARTIFICIAL INTELLIGENCE, SYSTEMS ENGINEERING),
REPORTS, PERIODICALS, CLASSIFICATION, INFORMATION
RETRIEVAL, PROGRAMMING (COMPUTERS), EDUCATION,
DECISION MAKING, PATTERN RECOGNITION, PROGRAMMING
LANGUAGES, BIONICS

(U)

IDENTIFIERS: MAN-MACHINE SYSTEMS

(U)

A LIST IS PRESENTED OF SDC'S RESEARCH AND
TECHNOLOGY DIVISION PUBLICATIONS IN JOURNALS,
PROCEEDINGS AND BOOKS FROM JANUARY 1961 THROUGH
DECEMBER 1964. THE BIBLIOGRAPHY DOES NOT INCLUDE
MINOR EXTERNAL PUBLICATIONS-BOOK REVIEWS, ABSTRACTS,
RESEARCH SUMMARIES, NOR THE SEVERAL HUNDRED PAPERS
PUBLISHED IN SDC DOCUMENT SERIES DURING THIS
PERIOD. (AUTHORS)

(U)

UNCLASSIFIED

DGC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-416 112

CARNEGIE INST OF TECH PITTSBURGH PA GRADUATE SCHOOL OF
INDUSTRIAL ADMINISTRATION

A RESUME OF MATHEMATICAL RESEARCH ON INFORMATION
SYSTEMS. (U)

DESCRIPTIVE NOTE: MANAGEMENT SCIENCES RESEARCH REPT.,

APR 65 IRP KRIEBEL, CHARLES H. ;

REPT. NO. HSRR-22

CONTRACT: NONP76024

PROJ: NR047 048

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REVISION OF REPORT DATED FEB 65.

DESCRIPTORS: (•MATHEMATICAL MODELS, COMMUNICATION
THEORY), (•BIBLIOGRAPHIES, COMMUNICATION THEORY),
(•COMMUNICATION THEORY, DATA PROCESSING SYSTEMS),
MANAGEMENT CONTROL SYSTEMS, OPERATIONS RESEARCH,
DOCUMENTATION, MANAGEMENT PLANNING, COMPUTERS (U)

IDENTIFIERS: INFORMATION SYSTEMS (U)

THIS PAPER PRESENTS A CROSS-REFERENCED BIBLIOGRAPHY
ON RESEARCH EMPLOYING MATHEMATICAL MODELS IN THE
STUDY OF INFORMATION SYSTEMS. ALTHOUGH THE LISTING
IS INTENDED PRIMARILY AS A REPRESENTATIVE
INTRODUCTION TO THE LITERATURE, THE ENTRIES CONTAIN
MORE THAN TEN THOUSAND SECONDARY REFERENCES.

(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-617 929

GOTEBORG UNIV (SWEDEN)

SELECTED BIBLIOGRAPHY ON NON-NORMALITY, (U)

64 110P HYRENIUS, H. ADOLFSSON, I. ;

HEPT. NO. 3

CONTRACT: AF61 052 459

PROJ: 9749

TASK: 974902

MONITOR: AFOSR , 69-1020

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: GOTEBORG UNIV. DEPT. OF
STATISTICS PUB. NO. 12.

DESCRIPTORS: (BIBLIOGRAPHIES, STATISTICAL
PROCESSES), (STATISTICAL PROCESSES,

BIBLIOGRAPHIES), ABSTRACTING,

POPULATION (MATHEMATICS), SAMPLING, MONTE

CARLO METHOD, SWEDEN (U)

IDENTIFIERS: NONNORMALITY (U)

THE BIBLIOGRAPHY PRESENTED IS A PART OF A LARGER
RESEARCH PROJECT, WHICH IS DESIGNED TO STUDY THE
EFFECTS ON NORMAL THEORY STATISTICAL METHODS ARISING
WHEN THE UNDERLYING ASSUMPTION OF A NORMAL UNIVERSE
IS NOT FULFILLED. ONLY ABSTRACTS FROM THE MOST
IMPORTANT SCIENTIFIC JOURNALS PLUS THOSE FURTHER
REFERENCES WHICH WERE FOUND IN ARTICLES IN THESE
JOURNALS ARE INCLUDED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-631 526 12/2
CONNECTICUT UNIV STORRS DEPT OF STATISTICS
BIBLIOGRAPHY ON STATISTICAL ROBUSTNESS AND RELATED
TOPICS. (U)
DESCRIPTIVE NOTE: RESEARCH REPT.,
JAN 66 22P FRIDSHAL, DONALD I
POSTEN, HARRY O. I
REPT. NO. RR-16,
CONTRACT: NONR-3297(02)
TASK: NR-042-25U.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, STATISTICAL
PROCESSES), STATISTICAL TESTS, ANALYSIS OF
VARIANCE (U)
IDENTIFIERS: ROBUST PROCEDURES (U)

THIS BIBLIOGRAPHY CONSISTS OF 252 REFERENCES IN THE
AREA OF STATISTICAL ROBUSTNESS. IT IS AN ATTEMPT
TO PROVIDE AN UP-TO-DATE COMPREHENSIVE COLLECTION OF
REFERENCES IN THIS GENERAL STATISTICAL AREA.
(AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-641 076 12/2
RPOAN UNIV PROVIDENCE R I CENTER FOR DYNAMICAL
SYSTEMS
ON THE STATUS OF OPTIMAL CONTROL AND STABILITY FOR
STOCHASTIC SYSTEMS, (U)

66 11P KUSHNER, HAROLD J. I
CONTRACT: AF-AFOSR-697-65, NGR-40-002-019
PROJ: AF-9749,
TASK: 974901,
MONITOR: AFOSR 66-1422

UNCLASSIFIED REPORT
AVAILABILITY: PUBLISHED IN IEEE INTERNATIONAL
CONVENTION RECORD PT 6 P142-51 1966.
SUPPLEMENTARY NOTE:

DESCRIPTORS: (CONTROL, OPTIMIZATION),
STABILITY, STOCHASTIC PROCESSES, BIBLIOGRAPHIES (U)

THE PAPER DISCUSSES THE STATUS OF OPTIMAL CONTROL
AND RELIABILITY FOR STOCHASTIC SYSTEMS. LINEAR
DIFFUSION MODELS, NON-LINEAR DIFFUSION MODELS, A
PROPERTY OF A NON-LINEAR DIFFUSION EQUATION, AND A
RESULT IN OPTIMAL STOCHASTIC CONTROL WITH EXAMPLES
ARE GIVEN. AN ELABORATE BIBLIOGRAPHY OF RECENT
PAPERS DEALING WITH THIS AREA OF RESEARCH IS ALSO
INCLUDED. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-642 657 12/1
NEW YORK UNIV N Y COURANT INST OF MATHEMATICAL
SCIENCES
BIBLIOGRAPHY OF SCHLICHT FUNCTIONS. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
MAY 66 164P BERNARDI, S. D. I
REPT. NO. IMM-251
CONTRACT: NONR-285(46)
PROJ: NR-041-019

UNCLASSIFIED REPORT

DESCRIPTORS: (*FUNCTIONS, *BIBLIOGRAPHIES) (U)

THIS BIBLIOGRAPHY CONTAINS 1694 REFERENCES TO THE PUBLICATIONS OF MORE THAN 570 AUTHORS WHICH HAVE APPEARED IN APPROXIMATELY 220 MATHEMATICAL JOURNALS IN THE U. S. A., THE SOVIET UNION, ENGLAND, GERMANY, FRANCE, JAPAN, AND IN MANY OTHER COUNTRIES. IT INCLUDES MANY SYMPOSIUMS, COLLOQUIUMS, CONGRESSES, DISSERTATIONS, ABSTRACTS, TECHNICAL REPORTS, LECTURE NOTES, AND BOOKS DEALING WITH THE THEORY OF ANALYTIC UNIVALENT (SCHLICHT) AND MULTIVALENT MAPPINGS OF SIMPLY AND MULTIPLY-CONNECTED DOMAINS. THIS SURVEY COVERS THE YEARS 1907 (WHEN THE FIRST SUBSTANTIAL RESULTS WERE PUBLISHED) THROUGH 1965. MOST OF THE PAPERS LISTED IN THE BIBLIOGRAPHY HAVE BEEN REVIEWED IN THE MATHEMATICAL REVIEWS OR IN THE ZENTRALBLATT FUR MATHEMATIK OR IN THE JAHRBUCH UBER DIE FORTSCHRITTE DER MATHEMATIK, AND THE VOLUME AND PAGE NUMBER OF THE REVIEW IS INDICATED AT THE END OF EACH REFERENCE. THE VARIOUS RESULTS IN THE THEORY OF SCHLICHT FUNCTIONS HAVE BEEN CLASSIFIED INTO SIXTY-EIGHT SUBTOPICS. EACH SUBTOPIC IS FOLLOWED BY A LIST OF THOSE REFERENCES IN THE BIBLIOGRAPHY CONTAINING INFORMATION PERTAINING TO THAT SUBTOPIC. MOREOVER, FOLLOWING EACH REFERENCE IN THE BIBLIOGRAPHY IS A LIST OF THOSE SUBTOPICS WHICH ARE DISCUSSED IN THAT REFERENCE. ALSO GIVEN IS A LIST OF EXPOSITORY PAPERS, AND A LIST OF THOSE PAPERS ON SCHLICHT FUNCTIONS WHICH APPEAR IN TWENTY-TWO MATHEMATICAL JOURNALS THAT ARE READILY AVAILABLE TO THE AMERICAN PUBLIC. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-645 679 12/2
ARMS CONTROL AND DISARMAMENT AGENCY WASHINGTON D C
SEVEN MORE YEARS OF QUEUES. A LAMENT AND A
BIBLIOGRAPHY, (U)
66 31P SAATY, THOMAS L. ;

UNCLASSIFIED REPORT
AVAILABILITY: PUBLISHED IN NAVAL RESEARCH
LOGISTICS QUARTERLY V17 N4 P447-76 DEC 1966.

DESCRIPTORS: (•QUEUEING THEORY,
•BIBLIOGRAPHIES), OPERATIONS RESEARCH (U)

EVERYONE TODAY KNOWS THAT A QUEUE IS A WAITING LINE. IF ONE ALSO TAKES THE TROUBLE TO EXAMINE THE LITERATURE, WHICH NOW IS NEARING 2000 REFERENCES ON THE SUBJECT, HE MIGHT GET THE IDEA THAT ALL THOSE CONTRIBUTING TO THE UNDERSTANDING OF CONGESTION PHENOMENA ARE INTERESTED IN DOING SOMETHING ABOUT THEM SINCE, AFTER ALL, QUEUEING THEORY IS CONCERNED WITH RELIEVING PAIN AND SAVING TIME FOR ALL OF US WHO HAVE TO WAIT. INDEED, QUEUES MAKE A SUBSTANTIAL DEMAND ON OUR VERY LIVES BY TAKING PRECIOUS TIME FROM THEM. BUT THE SITUATION IS GETTING WORSE IN SPITE OF THE FACT THAT IN THE PAST SEVEN YEARS THE LITERATURE OF QUEUEING THEORY HAS INCREASED BY HALF OF ITS AMOUNT FOR THE PREVIOUS FIFTY YEARS. IMPROVEMENTS DO NOT MATCH THE INCREASE IN THEORETICAL DEVELOPMENTS. RARELY HAS SO MUCH INGENUITY BEEN SHOWN IN TACKLING A VARIETY OF TECHNICAL PROBLEMS ON PAPER BY SOME OF THE ABLEST PEOPLE IN THE WORLD. IT MAY BE THAT MANY ADDITIONAL GOOD PAPERS ARE WAITING IN QUEUES FOR PUBLICATION. BUT REAL LIFE QUEUES ARE STILL PRIMITIVE, AND INDIFFERENCE TO WAITING BY BOTH FACILITY OWNERS AND RESIGNED CUSTOMERS IS A NORMAL STATE OF AFFAIRS. THE POPULATION OF THE WORLD IS PREDICTED TO MORE THAN DOUBLE IN THE NEXT THIRTY FOUR YEARS, PROMISING A CONGESTION CATASTROPHE IF IMPROVEMENTS IN QUEUES CONTINUE TO MOVE AT THE SNAIL'S PACE WHICH THEY HAVE FOLLOWED IN THE PAST TWENTY YEARS. (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-651 117 12/1
MCGILL UNIV MONTREAL (QUEBEC)
BIBLIOGRAPHY OF CLASSICAL AND CONTAGIOUS DISCRETE
DISTRIBUTIONS, (U)
SEP 66 278P PATIL, GANAPATI P. ;
JOSHI, SHARADCHANDRA W. ;
CONTRACT: AF 33(615)-2763
PROJ: AF-7071
MONITOR: ARL 66-0189

UNCLASSIFIED REPORT

DESCRIPTORS: (*STATISTICAL DISTRIBUTIONS,
BIBLIOGRAPHIES), PROBABILITY, DISTRIBUTION
FUNCTIONS, REPORTS (U)

THE REPORT PROVIDES A BIBLIOGRAPHY OF CLASSICAL AND
CONTAGIOUS DISCRETE DISTRIBUTIONS WHICH LISTS 2117
PUBLICATIONS IN STATISTICS AND PROBABILITY DISCUSSING
DISCRETE DISTRIBUTIONS IN GENERAL. PUBLICATIONS IN
OTHER FIELDS DISCUSSING APPLICATIONS OF THESE
DISTRIBUTIONS WERE ALSO INCLUDED. TEXTBOOKS AS A
CLASS WERE EXCLUDED, BUT THE MORE INTIMATE ONES WERE
INCLUDED. TECHNICAL REPORTS AND DISSERTATIONS WERE
TREATED AS PUBLISHED PAPERS. A SYSTEMATIC SEARCH
WAS MADE FOR MOST OF THE ENTRIES PUBLISHED IN
ENGLISH DURING THE PERIOD ENDING 1964. SOME OF
THE LATER PUBLICATIONS DISCOVERED AND FOUND RELEVANT
ARE ALSO INCLUDED. THE ORIGINAL OBJECTIVE OF
ACHIEVING COMPREHENSIVE COVERAGE OF NON-ENGLISH
PUBLICATIONS WAS PARTIALLY ABANDONED DUE TO LACK OF
ADEQUATE RESOURCES. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000250

AD-652 226 12/1 5/2
MICHIGAN UNIV ANN ARBOR
BIBLIOGRAPHY: GRAPH THEORY AND COMBINATORIAL
THEORY.
DESCRIPTIVE NOTF: FINAL REPT.,
MAY 67 5P HARARY, FRANK ;
CONTRACT: AF-AFOSR-754-65
PROJ: AF-9749
TASK: 974901
MONITOR: AFOSR 67-1167

(U)

UNCLASSIFIED REPORT

DESCRIPTORS: (*GRAPHICS, *COMBINATORIAL
ANALYSIS), (*BIBLIOGRAPHIES, DOCUMENTATION),
TOPOLOGY, THESES, REPORTS, SCIENTIFIC RESEARCH

(U)

REPORT LISTS ALL PAPERS PREPARED UNDER THE
SPONSORSHIP OF THE AFOSR GRANT. MANY OF THE
PAPERS ARE ON TOPOLOGICAL GRAPH THEORY AND THE
COMBINATORIAL ENUMERATION THEORY.

(U)

**MECHANICAL, INDUSTRIAL, CIVIL, AND
MARINE ENGINEERING**

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

D-403 441

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
COLD WELDING IN A VACUUM: AN ANNOTATED
BIBLIOGRAPHY.

(U)

MAK 62 16P BUGINAS, COMP. BY SCOTT J. J
EPT. NO. 5 73 62 11

UNCLASSIFIED REPORT

DESCRIPTORS: BIBLIOGRAPHIES, WELDING,
CRYOGENICS, LOW TEMPERATURE RESEARCH, DIFFU
SION, SURFACES, ADHESION, SPACE ENVIRONMENTAL
CONDITIONS, METALS, FRICTION, THEORY, LOW
PRESSURE RESEARCH.

(U)

THIS BIBLIOGRAPHY INCLUDES REFERENCES ISSUED
PRIMARILY DURING THE YEARS 1959-1962. REFER ENCES
ARE IN ALPHABETICAL ORDER BY AUTHOR'S NAME. SEARCH
WAS COMPLETED DEC 1962. (AUTHOR)

(U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-403 493

RATTLE MEMORIAL INST COLUMBUS OHIO DEFENSE METALS
INFORMATION CENTER

A GUIDE TO THE LITERATURE ON HIGH-VELOCITY
METALWORKING, (U)

DEC 62 244P STROMECKER, D.C. JOWENS, D.H. I

MONITOR: DMIC

UNCLASSIFIED REPORT

DESCRIPTORS: *MATERIAL FORMING, *METALS,
*ALLOYS, *BIBLIOGRAPHIES, EXPLOSIVE FORMING,
HARDENING, MATERIAL REMOVAL, INDUSTRIAL EQUIP
MENT, MACHINING, MANUFACTURING METHODS, VE
LOCITY, HIGH PRESSURE RESEARCH, EXPLOSIVE MA
TERIALS, ENERGY, POWDER METALLURGY, FIRING
MECHANISMS (AMMUNITION), MECHANICAL PROPERTIES. (U)

IDENTIFIERS: HIGH VELOCITY METAL WORKING, (U)
EXPLOSIVE WELDING. (U)

THIS REPORT IS A GUIDE TO THE LITERATURE ON HIGH-
VELOCITY METALWORKING. IT CONSISTS PRIMARILY OF
ABSTRACTS OF ARTICLES, REPORTS, BOOKS, AND CURRENT
RESEARCH PROJECTS ON AND RELATED TO HIGH-VELOCITY
METALWORKING ARRANGED ACCORDING TO TECHNICAL SUBJECT.
IT COVERS A SURVEY OF THE REPORTED WORK IN THE
FIELD UP TO ABOUT OCTOBER OF 1962. ABSTRACTS OF
OVER 700 REFERENCES HAVE BEEN ARRANGED BY SUBJECT
MATTER, WITH CROSS INDEXING BETWEEN SUBJECTS.
THERE IS ALSO AUTHOR INDEX. THE ELEVEN MAJOR
SUBJECTS AND CATEGORIES COVERED IN THE REPORT ARE:
(1) ENERGY SOURCES, (2) ENERGY
TRANSFER MEDIUMS, (3) FACILITY
REQUIREMENTS, (4) TOOLING REQUIREMENTS,
(5) EQUIPMENT REQUIREMENTS, (6)
FORMING, (7) HARDENING, (8) EXPLOSIVE
WELDING, (9) POWDER COMPACTION, (10)
METAL REMOVAL, AND (11) MATERIAL
BEHAVIOR. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-403 796

CENTRAL INST FOR INDUSTRIAL RESEARCH OSLO (NORWAY)
DEVELOPMENT OF EXPLOSIVE TECHNIQUES IN METAL
FORMING.

(U)

DESCRIPTIVE NOTE: STATUS REPT. NO. 1, 1 JULY-31 DEC
62.

JAN 62 43P HAAGLAND, B.; BORDALEN, K.;
EFTFESTJUL, B.; LINDTVEIT, T.; SCHREINER, K.;
CONTRACT: TRACT NISAMP N62

UNCLASSIFIED REPORT

DESCRIPTORS: •INDUSTRIAL EQUIPMENT, •EXPLOSIVE
FORMING, •BIBLIOGRAPHIES, STAINLESS STEEL,
DEFORMATION, AUSTENITE, MARTENSITE, LOW
TEMPERATURE RESEARCH, CRYOGENICS, PROCESSING,
PRODUCTION, HIGH-TEMPERATURE RESEARCH,
WELDING, TITANIUM, POWDER METALS, TUNGSTEN,
METALS.

(U)

IDENTIFIERS: EXPLOSIVE WELDING, EXPLOSIVE
COMPACTION.

(U)

THE BUILDING OF EXPERIMENTAL FACILITIES WAS FINISHED AND PRELIMINARY EXPERIMENTS CONDUCTED. EXPLOSIVE CHARGES UP TO 1 KG. CAN BE DETONATED IN 3 M-WIDE TANK. A BIBLIOGRAPHY CONTAINING ABOUT 1500 REFERENCES WAS ORGANIZED AND IMPORTANT TECHNICAL REPORTS WERE PURCHASED. DETAILED PLANNING OF EXPERIMENTS AND NECESSARY EQUIPMENT WAS THE MAIN ACTIVITY IN THE REPORTED PERIOD. THE PROGRAM COMPRISES THE FOLLOWING MAIN SUBJECTS: DIE CONSTRUCTION, DYNAMIC FORMABILITY, STRUCTURAL CHANGES, FORMING AT ELEVATED TEMPERATURES, WELDING AND COMPACTION OF POWDER. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-408 752

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

SOVIET LITERATURE ON PROTECTIVE STRUCTURES AND
COMPONENTS. REVIEW OF LITERATURE.

(U)

JUN 62 20P

MONITOR: AID 63 79;

UNCLASSIFIED REPORT

DESCRIPTORS: (1) GROUND SUPPORT EQUIPMENT, GUIDED
MISSILES), (2) SHELTERS, GROUND SUPPORT
EQUIPMENT), PROTECTIVE COVERINGS, CONTAINERS,
PACKING MATERIALS, STORAGE, ROADS,
RAILROADS, TERRAIN, LAUNCHING SITES,
BIBLIOGRAPHIES.

(U)

IDENTIFIERS: 1962.

(U)

THIS IS THE EIGHTH IN A REPORT SERIES REVIEWING
SOVIET LITERATURE ON GROUND SUPPORT EQUIPMENT. IT
IS BASED ON MATERIALS AVAILABLE IN THE COLLECTIONS
OF THE LIBRARY OF CONGRESS AND ON MATERIALS
RECEIVED BY THE AEROSPACE INFORMATION DIVISION
PRIOR TO 29 MARCH 1962. THE BROAD AREAS OF
INTEREST COVERED ARE AS FOLLOWS: (1) OPERA
TIONAL EMPLOYMENT AND PHILOSOPHY; (2) MISSILE
DATA; (3) FACILITIES; (4) TRANSPORT; (5)
LAUNCH SITE; (6) GROUND SUPPORT EQUIPMENT;
(7) NATURAL ENVIRONMENTAL CONDITIONS; (8)
PERSONNEL; (9) RESEARCH AND DEVELOPMENT
FACILITIES; (10) PACKAGING, PRESERVATIONS, AND
STORAGE. THE PRESENT (EIGHTH) REPORT DEALS
WITH THE FOLLOWING TOPICS: (4) TRANSPORT;
(5) LAUNCH SITE, E6 ACCESSORIES- GANTRIES;
NATURAL ENVIRONMENTAL CONDITIONS; (10)
PACKAGING, PRESERVATION, AND STORAGE A2 CONTAINERS.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-409 323

OFFENSE DOCUMENTATION CENTER ALEXANDRIA VA
LABORATORY - CLEANING TECHNIQUES AND
MATERIALS.

(U)

DESCRIPTIVE NOTE: A REPORT BIBLIOGRAPHY FOR 1951-JULY
63.

JUL 63 IV GOODWIN, COMP. BY THOMAS C. I
OLS, AND OWEN P. I

UNCLASSIFIED REPORT

DESCRIPTORS: •BIBLIOGRAPHIES, •CLEANING, •AB
STRACTS, •CLEANING COMPOUNDS, AIR, EXHAUST
GASES, CARBON REMOVING COMPOUNDS, DISHWASHING
COMPOUNDS, SOAPS, MACHINES, RUNWAYS, SCALE,
BOILER COMPOUNDS, SURFACES, SURFACE-ACTIVE SUB
STANCES, PREPARATION.

(U)

IDENTIFIERS: 1963.

(U)

THIS BIBLIOGRAPHY PRESENTS A RATHER UNUSUAL COM
BINATION OF REFERENCES INVOLVING CLEANING TECH
NIQUES, SCALE REMOVAL, CLEANING MATERIALS, ELEC
TROLYTIC POLISHING, WETTING AGENTS, AND OTHER SOIL
OR CONTAMINANT REMOVING INFORMATION. REFERENCES,
WITH ABSTRACTS, ARE RESTRICTED TO THE UNCLASSIFIED,
UNLIMITED DDC COLLECTION, AND COVER A PERIOD FROM
1951 TO 1963; 462 REFERENCES ARE CITED.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-409 795

LOCKHEED AIRCRAFT CORP VAN NUYS CALIF
EFFECTS OF WELD POOL AGITATION ON WELD PROPERTIES
AND CHARACTERISTICS: AN ANNOTATED BIBLIOGRAPHY, (U)
MAY 62 18P BUGINAS, COMP. BY SCOTT J.;
REPT. NO. SPECIAL BIBLIOGRAPHY NO. 5863 10;

UNCLASSIFIED REPORT

DESCRIPTORS: (WELDING, BIBLIOGRAPHIES),
(CASTING, BIBLIOGRAPHIES), (BIBLIOGRAPHIES,
WELDING), RECRYSTALLIZATION, VIBRATION, OSCIL
LATION, WELDS, WELDING RODS, STEEL, POROSITY,
ALUMINUM ALLOYS, CASTINGS, ULTRASONIC RADIA
TION, ALLOYS, METALS, MECHANICAL PROPERTIES,
GRAIN STRUCTURES (METALLURGY), MAGNETIC FIELDS,
ELECTROMAGNETIC FIELDS, DEGASIFICATION,
DUCTILITY, PNEUMATIC SYSTEMS, TITANIUM ALLOYS,
IRON ALLOYS, COPPER ALLOYS, MELTING, LEAD
ALLOYS, MAGNESIUM ALLOYS, CRYSTALLIZATION,
ABSTRACTS, HARDNESS. (U)
IDENTIFIERS: 1962. (U)

THE REFERENCES CITED WERE SELECTED PRIMARILY FROM
THE LITERATURE OF 1958-1962. IT IS SIGNIFICANT TO
NOTE THAT 65 PERCENT OF THE REFERENCES ARE TO
JOURNALS OR BOOKS PUBLISHED BY THE SOVIET BLOC.
PERTINENT PAPERS ON THE INFLUENCE OF VIBRATIONS
DURING THE SOLIDIFICATION OF CASTINGS ARE INCLUDED.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-411 349

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

INSTRUMENTATION USED IN SEARCHLIGHT TECHNIQUES.
COMPILATION OF ABSTRACTS. (U)

108P

MONITOR: AID REPT. P 63 92

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (SEARCHLIGHTS, INSTRUMENTATION),
(ABSTRACTS, SEARCHLIGHTS), (BIBLIOGRAPHIES, LIGHT
TRANSMISSION), ATMOSPHERE, OPTICS, POLARIZATION,
SCATTERING (U)

IDENTIFIERS: 1463 (U)

THIS REPORT DEALS WITH THE INSTRUMENTATION USED IN
SEARCHLIGHT TECHNIQUES AND PROBING OF THE ATMOSPHERE.
THE REPORT HAS BEEN DIVIDED INTO THREE PARTS.
PART I CONTAINS ARTICLES WHICH PROVIDE A
GENERALIZED DESCRIPTION OF INSTRUMENTATION AND
TECHNIQUES EMPLOYED IN SEARCHLIGHT INVESTIGATIONS.
PART II CONTAINS MORE DETAILED DESCRIPTIONS AND
THE TECHNICAL SPECIFICATIONS OF INDIVIDUAL
INSTRUMENTS AND COMPONENT PARTS USED SPECIFICALLY IN
SEARCHLIGHT TECHNIQUES. PART III CONTAINS
ARTICLES DESCRIBING OTHER DEVICES AND INSTRUMENTS
USED IN ATMOSPHERIC OPTICS TO MEASURE TRANSPARENCY,
AEROSOL CONTENT, LIGHT SCATTERING AND POLARIZATION,
ETC., EITHER COLLATERALLY WITH OR INDEPENDENT OF
SEARCHLIGHT TECHNIQUES. ENTRIES ARE ARRANGED BY
AUTHOR IN EACH SECTION. AN AUTHOR INDEX IS
INCLUDED. ENTRIES APPEAR IN THE FORM OF FULL,
SUMMARY, OR PARTIAL TRANSLATIONS, AND ABSTRACTS.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-412 759

MINISTRY OF AVIATION LONDON (ENGLAND)
BIBLIOGRAPHY ON SERVOMECHANISMS (CLOSED-LOOP
SYSTEMS).

(U)

AUG 63 19P

MONITOR: MOA TIL

BIB52 29

UNCLASSIFIED REPORT

DESCRIPTORS: (*BIBLIOGRAPHIES, SERVOMECHANISMS),
(*SERVOMECHANISMS, CONTROL SYSTEMS), SENSITIV
ITY, FEEDBACK, FLIGHT CONTROL SYSTEM, NOISE,
OPTIMIZATION, NONLINEAR SYSTEMS, ATTITUDE
CONTROL SYSTEMS, AUTOMATIC, TORQUE, THIRD
FILMS (STORAGE DEVICES), SPECTROPHOTOMETERS,
SERVO AMPLIFIERS, MAGNETIC AMPLIFIERS, ANALYSIS,
SYNTHESIS, INSTRUMENTATION, PRESSURE, TEMPERA
TURE, STABILITY.

(U)

IDENTIFIERS: 1963, GREAT BRITAIN, CLOSED CYCLE
SYSTEMS, FREQUENCY RESPONSE.

(U)

BIBLIOGRAPHY ON SERVOMECHANISMS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-417 699

GENISTRON INC LOS ANGELES CALIF
PROPOSED SPECIFICATIONS FOR ELECTROMAGNETIC
SHIELDING OF ENCLOSURES AND BUILDINGS. (U)
DESCRIPTIVE NOTE: FINAL REPT.,
JUL 63 309P JAKUBEC, L.G.; OHTA, H.H.;
CONTRACT: NEY32220

UNCLASSIFIED REPORT

DESCRIPTORS: (•BUILDINGS, ELECTROMAGNETIC
SHIELDING), (•STRUCTURES, ELECTROMAGNETIC
SHIELDING), (•ELECTROMAGNETIC SHIELDING,
BIBLIOGRAPHIES), (•BIBLIOGRAPHIES, ELECTROMAG
NETIC SHIELDING), RADIOFREQUENCY, MATERIALS,
EFFECTIVENESS, COSTS, SHEETS, METALLIC TEX
TILES, ALUMINUM, COPPER, IRON, STEEL,
MILITARY FACILITIES, SPECIFICATIONS, TESTS,
METAL JOINTS. (U)
IDENTIFIERS: 1963. (U)

AN INVESTIGATION WAS MADE WHS INTENDED TO RESULT IN
DEFINITIVE SPECIFICATIONS AND ARCHITECTURAL PLANS
FOR THE FABRICATION AND INSTALLATION OF LARGE RADIO
FREQUENCY SHIELDED ROOMS AND BUILDINGS. THE
SHIELDING EFFECTIVENESS OF VARIOUS MATERIALS, AND
FABRICATION METHODS FOR ON-SITE CONSTRUCTION FROM
BASIC MATERIALS WAS DETERMINED BY LITERATURE
RESEARCH AND LABORATORY INVESTIGATION AS REQUIRED.
METHODS OF ELECTRICAL BONDING BETWEEN SHEETS WERE
STUDIED FOR INITIAL SHIELDING EFFECTIVENESS AND
DETERIORATION WITH AGING. THE RELATIVE MERITS OF
BUTT VERSUS OVERLAPPING JOINTS WERE ALSO DETERMINED.
THE END PRODUCT IS DEFINITE DRAWINGS AND SPECIFICA
TIONS WHICH WILL PROVIDE AN OPTIMUM SHIELDING
EFFECTIVENESS FOR SUCH BUILDINGS IN PRACTICE,
CONSIDERING PLANE WAVE FIELDS 2 TO 10,000 MC, AND
ELECTROMAGNETIC FIELDS 10 KC TO 2 MC. (AUTHOR) (U)

UNCLASSIFIED

ODC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AU-420 117

ROCKBESTOS WIRE AND CABLE CO NEW HAVEN CONN
INFLUENCE OF ATMOSPHERIC CONTAMINANTS ON CORROSION -
LITERATURE REPORT, (U)

24P MUFFLEY, HARRY C. ;

PROJ: 1AU 24401A109

MONITOR: RIAL 63 2041

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*CORROSION, ATMOSPHERIC POLLUTION),
(*ATMOSPHERIC POLLUTION, CORROSION), (*BIBLIOGRAPHIES,
CORROSION), WASTE GASES, ATMOSPHERE, CONTAMINATION,
STEEL, METALS, ALLOYS, PARTICLES, COATINGS, HUMIDITY (U)
IDENTIFIERS: 1963 (U)

CORROSION PREVENTIVE COATINGS ARE CURRENTLY
DESIGNED TO PREVENT MOISTURE FROM COMING IN CONTACT
WITH THE METAL SURFACES. CORROSION DUE TO MOISTURE
ALONE IS VERY SLOW, HOWEVER, THE INTERACTION OF
MOISTURE AND ATMOSPHERIC CONTAMINANTS ACCELERATES THE
RATE OF CORROSION. THE FACT THAT THESE TWO,
MOISTURE AND ATMOSPHERIC CONTAMINANTS, VARY
INDEPENDENTLY, MAKES IT DIFFICULT TO PREDICT THE
CORROSION BEHAVIOR OF A GIVEN AREA. LITERATURE IN
THIS FIELD OF ESDEAVOR WAS REVIEWED WITH THE
FOLLOWING QUESTIONS IN MIND: (1) WHAT
CONTAMINANTS CONTRIBUTE TO ATMOSPHERIC CORROSION;
(2) WHAT IS THE MECHANISM OF ATMOSPHERIC
CORROSION; AND (3) WHAT TECHNIQUES ARE AVAILABLE
FOR DETERMINING ATMOSPHERIC CONTAMINATION.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-420 528

IOWA ENGINEERING EXPERIMENT STATION AMES

A STUDY OF LOADS ON UNDERGROUND STRUCTURES, PARTS I -

III.

(U)

DESCRIPTIVE NOTE: FINAL REPT.,

43 IV VAN HORN, D. A. ITENER, R. K.

CONTRACT: DA48 146XZ005

PROJ: 4345

MONITOR: DASA 1406

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (UNDERGROUND STRUCTURES, LOADING
(MECHANICS)), SOIL MECHANICS, LOAD DISTRIBUTION,
BLAST, NUCLEAR EXPLOSIONS, PRESSURE, FOUNDATION
(STRUCTURES), SOILS, BIBLIOGRAPHIES

(U)

IDENTIFIERS: 1963

(U)

AN ANNOTATED BIBLIOGRAPHY IS PRESENTED IN WHICH THE
MAIN PURPOSE IS TO LIST EARLIER STUDIES OF LOADS ON
UNDERGROUND STRUCTURES. A DISCUSSION IS PRESENTED
OF THREE OF THE CURRENT PROCEDURES FOR DESIGN OF
UNDERGROUND STRUCTURES IN WHICH NUCLEAR EFFECTS ARE
GIVEN CONSIDERATION. AN ANALYTICAL METHOD IS GIVEN
FOR DETERMINING LOADS RESULTING FROM TIME-DEPENDENT
OVERPRESSURES BASED MAINLY ON PREVIOUS WORK AT IOWA
STATE UNIVERSITY AND THE ARMOUR RESEARCH
FOUNDATION. THIS IS SUPPLEMENTED BY A GRAPHICAL
REPRESENTATION OF THE EXPRESSIONS DEVELOPED.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-423 071

DOUGLAS AIRCRAFT CO INC LONG BEACH CALIF
CHEMICAL COMPOUNDS FOR METAL SHAPING. VOLUME II.
APPENDIX.

DESCRIPTIVE NOTE: FINAL TECHNICAL ENGINEERING REPT., 20 (U)
JUNE 6130 JUNE 62,

IV JAMIESON, J. L. ; LOCKHART, F.

J. i

CONTRACT: AF33 600 43027

PROJ: 7 648A

MONITOR: ASD TR63 7 648A VOL. 2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MATERIAL FORMING, BIBLIOGRAPHIES),
(*MATERIAL REMOVAL, BIBLIOGRAPHIES), (*BIBLIOGRAPHIES,
MATERIAL REMOVAL), METALS, CHEMICAL MILLING,
ELECTROLYTIC POLISHING, ELECTROEROSIVE MACHINING,
ELECTROFORMING, ELECTROCHEMISTRY, CHEMICAL COMPOUNDS,
ELECTRODEPOSITION, ELECTROLYTES, IRON COMPOUNDS,
CHLORIDES, EXPERIMENTAL DATA, LABORATORIES (U)
IDENTIFIERS: 1963, ELECTROCHEMICAL MACHINING (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-423 723

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF

DIFFUSION BONDING: AN ANNOTATED BIBLIOGRAPHY, (U)

MAR 63 28P RUGINAS, SCOTT J. ;

REPT. NO. 8 40 63 9 ,SR63 44

CONTRACT: N0W63 0050C

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, BONDING), (*BONDING,
DIFFUSION), WELDING, PRESSURE, HIGH TEMPERATURE
RESEARCH, THERMAL JOINING, INDEXES, METALS,

ABSTRACTS (U)

IDENTIFIERS: 1963 (U)

THIS BIBLIOGRAPHY CONTAINS 89 SELECTED REFERENCES
ON HOT PRESSURE WELDING AND DIFFUSION BONDING FROM
THE YEARS 1940-1962. INDEXES ARE INCLUDED.

(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-423 827

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
STRUCTURAL STABILITY OF TOROIDAL SHELLS: AN ANNOTATED
BIBLIOGRAPHY, (U)

25P STROHER, PETER R. ;

REPT. NO. 8 40 67 10 ,SB67 90

CONTRACT: N0W62 0090C

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•STRUCTURAL SHELLS, BIBLIOGRAPHIES),
(•BIBLIOGRAPHIES, STRUCTURAL SHELLS), MECHANICAL
PROPERTIES, DEFORMATION, STATICS, STRESSES (U)
IDENTIFIERS: 1967, TOROIDAL SHELLS (U)

PRESENTED IS AN ANNOTATED BIBLIOGRAPHY ON THE
STRUCTURAL STABILITY OF TOROIDAL SHELLS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-421 626

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
FUSION WELDING OF ALUMINUM: AN ANNOTATED
BIBLIOGRAPHY, (U)

27P MCCORMICK, HELEN B. ;

STROMER, PETER R. ;

REPT. NO. 8 30 62 2 ,5863 96

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BIBLIOGRAPHIES, WELDING), (•WELDING,
BIBLIOGRAPHIES), (•ALUMINUM ALLOYS, WELDING), INDEXES,
ABSTRACTS, ALUMINUM, THERMAL JOINING, ARC WELDING (U)
IDENTIFIERS: 1962, TIG WELDING, MIG WELDING (U)

THIS BIBLIOGRAPHY (62 REFS.) HAS BEEN COMPILED
ON THE FUSION WELDING OF ALUMINUM ALLOYS WITH
EMPHASIS ON REFERENCES REPORTING THE LATEST ADVANCES
IN THE TUNGSTEN-INERT-GAS (TIG) PROCESS, USING
EITHER ALTERNATING CURRENT OR DIRECT CURRENT STRAIGHT
POLARITY. LITERATURE COVERAGE IS FOR THE PERIOD
1962 THROUGH JUNE 1963. ENTRIES ARE ARRANGED
ALPHABETICALLY BY SENIOR PERSONAL AUTHOR OR BY
JOURNAL ARTICLE TITLE WHEN NO AUTHOR IS GIVEN. A
SUBJECT INDEX IS INCLUDED. THE RESOURCES OF THE
LOCKHEED MISSILES AND SPACE CO. TECHNICAL
INFORMATION CENTER WERE UTILIZED IN THE
COMPILATION OF THE BIBLIOGRAPHY. (AUTHOR). (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-471 627

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
IRON PLATING: AN ANNOTATED BIBLIOGRAPHY,
95P GOLDMANN, JACK B. ;

(U)

REPT. NO. D 26 63 9 ,SB63 95
CONTRACT: NON62 0363

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (0BIBLIOGRAPHIES, PLATING), (0PLATING,
BIBLIOGRAPHIES), (0IRON, PLATING), IRON ALLOYS, NICKEL
ALLOYS, ELECTRODEPOSITION, ELECTROPLATING, ABSTRACTS,
INDEXES, METAL COATINGS (U)
IDENTIFIERS: 1963 (U)

THIS ANNOTATED BIBLIOGRAPHY IS CONCERNED MAINLY
WITH THE ELECTROPLATING OF IRON, AND THE ALLOY, IRON
NICKEL. ALSO, PRODUCTION METHODS FOR THE
DEPOSITION OF HEAVY LAYERS OF IRON AND IRONNICKEL ON
STAINLESS STEEL WERE EMPHASIZED. NO REFERENCE IS
MADE TO THE PRODUCTION OF THIN MAGNETIC FILMS.
PRINTED SOURCES WERE EXAMINED FOR THE YEARS 1940
THROUGH JUNE 1963. THE ARRANGEMENT OF THE
BIBLIOGRAPHY IS ALPHABETICAL BY AUTHOR. THERE ARE
THREE INDEXES (1) AUTHOR, (2) CORPORATE
SOURCE, AND (3) PATENT. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-436 023

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF

JOINING OF BERYLLIUM AND ITS ALLOYS BY WELDING AND/OR

BRAZING: AN ANNOTATED BIBLIOGRAPHY.

(U)

AUG 63

38P

GOLDMANN, JACK B. :

REPT. NO. 3 80 63 6

CONTRACT: NORD17017

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BIBLIOGRAPHIES, JOINING), (•JOINING,
BIBLIOGRAPHIES), (•BERYLLIUM, JOINING), (•BERYLLIUM
ALLOYS, JOINING), WELDING, BRAZING, ABSTRACTS,
INDEXES

(U)

IDENTIFIERS: 1963

(U)

INTENSE INVESTIGATION HAS BEEN MADE OF THE PROBLEM
OF THE JOINING OF BERYLLIUM AND ITS ALLOYS EITHER BY
WELDING AND/OR BRAZING DURING THE PAST THREE YEARS,
1960-1963. THIS ANNOTATED BIBLIOGRAPHY IS THE
RESULT OF THE EXAMINATION OF PRINTED MATTER FOR THAT
PERIOD AS FOUND IN THE JOURNAL AND REPORT LITERATURE.
THE RESOURCES OF THE LOCKHEED MISSILES &
SPACE COMPANY TECHNICAL INFORMATION CENTER
WERE UTILIZED IN THE PREPARATION OF THIS
BIBLIOGRAPHY. (AUTHOR)

(U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-429 446

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
THERMIT WELDING: A SELECTIVE BIBLIOGRAPHY, (U)
FEB 63 21P BUGINAS, SCOTT J. I
REPT. NO. SB6329 , 4 73 63 7

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (THERMITE, WELDING), (WELDING,
THERMITE), ALUMINUM ALLOYS, BIBLIOGRAPHIES, INDEXES,
RELUS (U)

THIS BIBLIOGRAPHY CONTAINS 59 SELECTED REFERENCES
ON THERMIT WELDING FROM THE LITERATURE OF 1940-1962.
THE PRIME INTEREST AREAS OF THE SEARCH WERE IN
JOINING ALUMINUM BY THIS PROCESS AND IN JOINING HEAVY
PLATE. BRIEF ABSTRACTS ARE INCLUDED WITH MOST
CITATIONS TO EXPAND TITLE INFORMATION. ABSTRACTS
ARE ARRANGED IN ALPHABETICAL ORDER BY AUTHOR'S NAME.
(AUTHOR) (U)

UNCLASSIFIED

UDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-441 58J

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
GEARS, BEARINGS AND LUBRICANTS FOR AEROSPACE
APPLICATION: AN ANNOTATED BIBLIOGRAPHY, (U)

AUG 63 87P ABBOTT, HELEN M. I

REPT. NO. D 77 63 1, SR 63 99

CONTRACT: AFD4 647 787

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (GGEARS, AEROSPACE CRAFT), (GLUBRICANTS,
AEROSPACE CRAFT), (GBEARINGS, AEROSPACE CRAFT),
(GBIBLIOGRAPHIES, LUBRICATION), (GAEROSPACE CRAFT,
LUBRICATION), SPACE ENVIRONMENTAL CONDITIONS, LOW-
TEMPERATURE LUBRICANTS, ABSTRACTS (U)

THIS COMPILATION OF 189 ANNOTATED REFERENCES REFERS
TO INFORMATION CONCERNING MECHANISMS SUCH AS GEARS
AND BEARINGS, THEIR LUBRICATION, AND OTHER
LUBRICATION TECHNIQUES WHICH ARE PROBLEM AREAS FOR
AEROSPACE APPLICATIONS. THE REPORT IS DIVIDED INTO
TWO PARTS: I: GEARS AND BEARINGS, AND II:
LUBRICANTS AND LUBRICATION TECHNIQUES. THIS
MATERIAL PROVIDES A COVERAGE OF THE LITERATURE FROM
OCTOBER 1961 THROUGH AUGUST 1963. SUBJECT,
AUTHOR, AND CORPORATE SOURCE INDEXES ARE INCLUDED AS
AIDS IN LOCATING SPECIFIC MATERIAL. (AUTHOR) (U)

UNCLASSIFIED

ODC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-462 681

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
BEARINGS - EXTREME TEMPERATURE APPLICATIONS. (U)
DESCRIPTIVE NOTE: SPECIAL BIBLIOGRAPHY,
SEP 59 5P CARROLL, K. D. ;
REPT. NO. 58-59-12

UNCLASSIFIED REPORT

DISTRIBUTION: MICROFICHE ONLY AFTER ORIGINAL COPIES
EXHAUSTED.

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BEARINGS, HIGH-TEMPERATURE RESEARCH),
BIBLIOGRAPHIES, ROLLER BEARINGS, AIRFRAME BEARINGS,
JET ENGINES, GAS TURBINES, METALLURGICAL ANALYSIS,
SURFACE PROPERTIES, GYROSCOPES, LUBRICAT N, TITANIUM;
ALLOYS, GUIDED MISSILE COMPONENTS (U)

EXTREME TEMPERATURE APPLICATIONS FOR BEARINGS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-464 881

SPACE SYSTEMS DIV LOS ANGELES AIR FORCE STATION CALIF
DIFFUSION BIBLIOGRAPHY, (U)
MAY 65 8P SILVA, DONALD G. ;

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•AIR POLLUTION, DIFFUSION),
(•DIFFUSION, BIBLIOGRAPHIES), METEOROLOGY,
MICROMETEOROLOGY (U)

THE EMPHASIS PLACED ON AIR POLLUTION AND DIFFUSION BY THE CLEAN AIR ACT HAS NECESSITATED A REVIEW OF TECHNICAL INFORMATION PUBLISHED ON DIFFUSION AND RELATED AREAS. THE AUTHOR DEVELOPED THIS BIBLIOGRAPHY WHILE PREPARING A PAPER ENTITLED PROPELLANT TOXICITY AND DIFFUSION PREDICTION METHODS. THE BIBLIOGRAPHY DEALS PRIMARILY WITH DIFFUSION STUDIES AND PREDICTION METHODS AND WAS NOT INTENDED TO COVER THE ENTIRE FIELD OF AIR POLLUTION. IT IS HOPED THAT THIS EFFORT WILL BE USEFUL TO AIR FORCE BIOENVIRONMENTAL ENGINEERS AND METEOROLOGISTS WHO MAY HAVE A NEED FOR THIS TYPE OF INFORMATION. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000950

AD-464 975

BATTELLE MEMORIAL INST COLUMBUS OHIO
THE FABRICATION OF BERYLLIUM,

(U)

MAY 64 115P GERDS, A. F. ; BOULGER, F. W. ;

CONTRACT: DAD1 021AMC2032

MONITOR: RSIC 227

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BERYLLIUM, PROCESSING),
(•PROCESSING, REVIEWS), BERYLLIUM ALLOYS,
ALUMINUM ALLOYS, PHYSICAL PROPERTIES,
DEFORMATION, CREEP, EXTRUSION, SHEETS,
FORGING, POWDER METALLURGY, DRAWING (MACHINE
PROCESSING), WIRE, CASTING, MACHINING,
DRILLS, MILLING MACHINES, SAWS, CHEMICAL
MILLING, HEAT TREATMENT, STRESSES, REDUCTION,
BRAZING, BONDING, SOLDERING, WELDING,
TOXICITY, BIBLIOGRAPHIES,
ROLLING (METALLURGY)

(U)

IDENTIFIERS: SLIP CASTING, ANNEALING

(U)

THIS STATE-OF-THE-ART REPORT IS CONCERNED WITH THE
FABRICATION OF BERYLLIUM AND ITS ALLOYS INTO SPACE
VEHICLE STRUCTURES. THE REPORT SUMMARIZES
CURRENTLY USED METHODS FOR FABRICATING THE METAL INTO
SHEETS, RODS, AND OTHER FORMS. SOME OF THE
DIFFICULTIES THAT HAVE BEEN ENCOUNTERED IN VARIOUS
ASPECTS OF FABRICATION, ESPECIALLY REGARDING THE
INHERENT BRITTLNESS OF THE METAL, ARE ENUMERATED
ALONG WITH THE MEANS THAT HAVE BEEN USED TO
CIRCUMVENT THESE PROBLEMS. THE SURVEY INCLUDES 102
REFERENCES TO ARTICLES AND PAPERS IN THE UNCLASSIFIED
LITERATURE, MOST OF THEM HAVING BEEN PUBLISHED SINCE
1960. THE DATA ON BERYLLIUM PRIOR TO 1960 HAVE
BEEN COVERED IN TWO REPORTS ISSUED BY THE DEFENSE
METALS INFORMATION CENTER, DMIC REPORTS 106
AND 168. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-467 420

COLD REGIONS RESEARCH AND ENGINEERING LAB HANOVER N H
A BIBLIOGRAPHY ON WINTER CONSTRUCTION 1940 -
1963, (U)

JUN 65 46P FULWIDER, CHARLES W. I

REPT. NO. 83

TASK: 1V02500;A13002

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, CONSTRUCTION),
(*CONSTRUCTION, ARCTIC REGIONS), BUILDINGS,
CONCRETE, DAMS, EARTH HANDLING EQUIPMENT,
PERMAFROST, BRICK, RAILROADS, RUNWAYS,
BRIDGES, LANDING FIELDS (U)

THE REFERENCES CONTAINED IN THIS BIBLIOGRAPHY WERE DERIVED PRIMARILY FROM A SEARCH OF THE U. S. ARMY COLD REGIONS RESEARCH AND ENGINEERING LABORATORY LIBRARY, THE ARCTIC BIBLIOGRAPHY, THE BIBLIOGRAPHY ON SNOW, ICE AND PERMAFROST (USA CRREL REPORT NO. 12, VOLUMES 1-18), THE POLAR BIBLIOGRAPHY, THE INDUSTRIAL ARTS INDEX AND THE APPLIED SCIENCE AND TECHNOLOGY INDEX. THE PERIOD COVERED BY THE BIBLIOGRAPHY PURPOSELY WAS LIMITED TO THE YEARS 1940-1963 BECAUSE OF THE RAPID TECHNOLOGICAL ADVANCES SINCE WORLD WAR II, WHICH IN MANY CASES HAVE RESULTED IN COMPLETE CHANGES IN CONSTRUCTION PROCEDURES AND PRACTICES. EACH ITEM HAS BEEN NUMBERED TO DISPENSE WITH REPETITION OF LISTINGS CONTAINING INFORMATION ON SEVERAL SUBJECTS. ADDITIONAL REFERENCES UNDER A PARTICULAR SUBJECT ARE SHOWN BY NUMBER AT THE END OF THE SUBJECT LISTING. THE ARCTIC BIBLIOGRAPHY AND THE BIBLIOGRAPHY ON SNOW, ICE AND PERMAFROST SUPPLIED A LARGE NUMBER OF THE REFERENCES. BOTH PUBLICATIONS NUMBER AND PROVIDE ABSTRACTS FOR EACH ITEM. EACH REFERENCE IN THIS REPORT OBTAINED FROM THESE TWO SOURCES HAS THE ABSTRACT NUMBER NOTED BELOW THE LISTING FOR THOSE DESIRING ADDITIONAL INFORMATION. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-601 233

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C
BIBLIOGRAPHY ON CORROSION INHIBITORS FOR NONFERROUS
METALS. (U)

JUL 60 37P

REPT. NO. S60 041 ,PDL40596

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, CORROSION INHIBITION),
(*CORROSION INHIBITION, BIBLIOGRAPHIES) (U)
IDENTIFIERS: NONFERROUS METALS (U)

BIBLIOGRAPHY ON CORROSION INHIBITORS FOR NONFERROUS
METALS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-609 730

MIDWEST RESEARCH INST KANSAS CITY MO
THE STRUCTURE AND STRENGTH OF EPITAXIAL FILMS. (U)
DESCRIPTIVE NOTE: FINAL REPT. FOR 17 OCT 63-17 NOV 64,

JAN 65 48P LAVIK, MELVIN ; STABLEIN, PAUL
; BRYANT, PAUL J. ;
CONTRACT: NOW64 00610
PROJ: 2742P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*EVAPORATORS, METAL FILMS), (*METAL
FILMS, VAPOR PLATING), VACUUM SYSTEMS, EVAPORATION,
EPITAXIAL GROWTH, COMPOSITE MATERIALS, GOLD, SILVER,
MICA, SODIUM COMPOUNDS, CHLORIDES, TENSILE PROPERTIES,
TEST EQUIPMENT, COMPRESSIVE PROPERTIES, STRAIN
(MECHANICS), ELASTICITY, BIBLIOGRAPHIES (U)
IDENTIFIERS: THIN FILMS (M)

AN ULTRA-HIGH VACUUM EVAPORATOR SYSTEM WAS
DEVELOPED FOR DEPOSITING PURE, EPITAXIAL FILMS.
PRESSURES OF 10 TO THE -10 POWER TORR HAVE BEEN
OBTAINED. A TENSILE TEST DEVICE WAS INCORPORATED
TO PERMIT STRAINING THE FILM-SUBSTRATE COMPOSITES
WHILE STILL IN THE CLEAN UHV ENVIRONMENT.
PRELIMINARY LOAD-DISPLACEMENT CURVES WERE OBTAINED
FOR POLYCRYSTALLINE SILVER SUBSTRATES WITH AND
WITHOUT GOLD FILMS. TECHNIQUES WERE INVESTIGATED
FOR SEPARATING GOLD FILMS FROM MICA AND SODIUM
CHLORIDE SUBSTRATES. AN APPARENT GROWN-IN
COMPRESSIVE STRAIN WAS OBSERVED AS THE FILM IS
RELIEVED DURING SEPARATION FROM A SODIUM CHLORIDE
SUBSTRATE. PRELIMINARY TENSILE TESTS OF THESE
FREE-FILMS WERE CONDUCTED. RECOMMENDED FUTURE
EXPERIMENTS AS WELL AS RECOMMENDED MODIFICATIONS OF
EQUIPMENT AND TECHNIQUES ARE GIVEN. APPENDED IS A
BIBLIOGRAPHY OF LITERATURE REFERENCES PERTINENT TO
THIS PROJECT WITH A CODED NOTATION OF PRIMARY SUBJECT
MATTER. (AUTHOR) (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000290

AD-611 004

DAVID TAYLOR MODEL BASIN WASHINGTON D C
SHIPBOARD VIBRATION RESEARCH IN THE U.S.A. (U)
DESCRIPTIVE NOTE: RESEARCH AND DEVELOPMENT REPT.,
DEC 64 BIP NOONAN, EDWARD F. I
REPT. NO. DTHB-1891

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: A REPT. TO THE VIBRATION COMMITTEE
(9) OF THE INTERNATIONAL SHIP STRUCTURES
CONGRESS (2ND), DELFT, THE NETHERLANDS, JUL 64.

DESCRIPTORS: (SHIP HULLS, VIBRATION), DESIGN, SHIP
NOISE, MEASUREMENT, WATER WAVES, IMPACT SHOCK,
ELASTICITY, BIBLIOGRAPHIES, MARINE ENGINEERING (U)

A BRIEF REVIEW OF THE HULL VIBRATION PROGRAM
AT THE DAVID TAYLOR MODEL BASIN AND OF THE
HS-2-1 TASK GROUP OF THE HS-2 PANEL
(DYNAMIC LOADINGS AND RESPONSES) OF THE
SOCIETY OF NAVAL ARCHITECTS AND MARINE
ENGINEERS IS GIVEN. A BIBLIOGRAPHY OF SELECTED
REPORTS AND PAPERS ON SHIP AND MACHINERY VIBRATION IS
INCLUDED. OF PARTICULAR NOTE IS THE 'CODE FOR
SHIPBOARD HULL VIBRATION MEASUREMENTS.'
THIS CODE IS INTENDED FOR USE IN THE EVALUATION OF
COMMERCIAL TYPE SHIPS AND HAS RECEIVED THE APPROVAL
OF THE HULL STRUCTURE COMMITTEE OF SNAME. IT
HAS BEEN PUBLISHED BY THE SOCIETY OF NAVAL
ARCHITECTS AND MARINE ENGINEERS AS TECHNICAL
AND RESEARCH BULLETIN NO. 2-10. THIS
PUBLICATION WAS USED AS THE BASIS OF DISCUSSIONS ON
THE SUBJECT OF STANDARD VIBRATION MEASURING SYSTEMS
AND PROCEDURES FOR SHIPBOARD HULL VIBRATION
MEASUREMENTS, AT THE 2ND INTERNATIONAL SHIP
STRUCTURES CONGRESS, HELD AT DELFT, THE
NETHERLANDS, JULY 1964. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-613 270

SHIP STRUCTURE COMMITTEE WASHINGTON D C

INDEX OF SHIP STRUCTURE COMMITTEE PUBLICATIONS.

APR 65 15P

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SHIP STRUCTURAL COMPONENTS,
BIBLIOGRAPHIES), (*BIBLIOGRAPHIES, SHIP STRUCTURAL
COMPONENTS), SHIP PLATES, STEEL, WELDING, INDEXES,
MECHANICAL PROPERTIES

(U)

A BIBLIOGRAPHY OF 181 REFERENCES IS GIVEN.

(U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-620 030

ARMY ENGINEER WATERWAYS EXPERIMENT STATION VICKSBURG
MISS

MOBILITY ENVIRONMENTAL RESEARCH STUDY. A LITERATURE
SURVEY OF ENVIRONMENTAL FACTORS IN THAILAND. (U)

DESCRIPTIVE NOTE: TECHNICAL REPT.,

JUN 65 224P BROUGHTON, J. D. ; SHAMBURGER, J.

H. ; DEL MAR, D. B. ;

REPT. NO. AEWES-TR-3-681-1

CONTRACT: AKPA ORDER-400

UNCLASSIFIED REPORT

DISTRIBUTION: HARD COPY AVAILABLE FROM U.S. ARMY
ENGINEER WATERWAYS EXPERIMENT STATION, P. O. BOX
631, VICKSBURG, MISS. \$3.50.

SUPPLEMENTARY NOTE: HARD COPY AVAILABLE FROM U. S. ARMY
ENGINEER WATERWAYS EXPERIMENT STATION, P. O. BOX
631, VICKSBURG, MISS., \$3.50.

DESCRIPTORS: (•THAILAND, TRAFFICABILITY),
(•TRAFFICABILITY, THAILAND), (•TERRAIN,
THAILAND), BIBLIOGRAPHIES, SOILS, HYDROLOGY,
CLIMATOLOGY, PLANTS(BOTANY), GEOLOGY, AERIAL
PHOTOGRAPHS, MAPS (U)

THE SURVEY WAS A SEARCH FOR MAPS, WRITTEN TEXT OR
DESCRIPTION, AND AERIAL PHOTOGRAPHS THAT WOULD BE
USEFUL IN QUANTITATIVELY DESCRIBING THE PHYSICAL
ATTRIBUTES OF THE ENVIRONMENT FOUND IN THAILAND
THAT AFFECT GROUND MOBILITY. THESE PHYSICAL
ATTRIBUTES INCLUDE SURFACE GEOMETRY, SOILS,
VEGETATION, HYDROLOGIC GEOMETRY, AND CLIMATE.
SECTIONS CORRESPONDING TO THE PHYSICAL ATTRIBUTES
AND A GENERAL SECTION WERE ESTABLISHED FOR FILING AND
CROSS-FILING REFERENCES ACCORDING TO THEIR DATA
CONTENT. EACH SECTION WAS FURTHER SUBDIVIDED INTO
TWO SUBSECTIONS, TEXT AND MAP REFERENCES. A LIST
OF 1612 UNCLASSIFIED REFERENCES WAS COMPILED, AND THE
CONTENTS OF EACH REFERENCE WERE EVALUATED ACCORDING
TO THE FOLLOWING CATEGORIES: (A) QUANTITATIVE
DATA, (B) QUALITATIVE DATA, (C) USEFUL DATA
ABSENT, (D) GAZETTEERS, BIBLIOGRAPHIES, ETC., AND
(F) NOT REVIEWED. OF THESE REFERENCES, 1012
WERE REVIEWED AND ANNOTATED, 484 WERE CROSS-FILED,
AND 117 WERE NOT REVIEWED. GEOGRAPHIC INDEX MAPS
WERE PREPARED TO SHOW SPECIFIC AREAS OF THAILAND
DESCRIBED IN THE ANNOTATED REFERENCES WHEN THESE
AREAS WERE LESS THAN THE ENTIRE COUNTRY. EACH
BIBLIOGRAPHIC ENTRY IS IDENTIFIED BY A SERIES OF
SYMBOLS INDICATING (A) SECTION AND REFERENCE
NUMBER, (B) SUBSECTION (TEXT, MAPS, OR BOTH),
(C) EVALUATION CATEGORY, AND (D) IF AND WHERE (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-623 361
HUGHES AIRCRAFT CO CULVER CITY CALIF LIBRARY
DIAPHRAGMS, A SELECTED BIBLIOGRAPHY, (U)
OCT 65 15P SEREMAK, J. ;
REPT. NO. LS-318-65-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*DIAPHRAGMS(MECHANICS),
BIBLIOGRAPHIES), METALS, RUPTURE, SAFETY
VALVES, DESIGN, MANUFACTURING METHODS (U)

THE SELECTIVE BIBLIOGRAPHY CONTAINS 135 REFERENCES
ON DESIGN AND MANUFACTURE OF METALLIC DIAPHRAGMS
INCLUDING A COMPLETE SEARCH ON BURSTING DIAPHRAGMS.
THE BIBLIOGRAPHY COVERS PERIOD FROM 1920 TO 1965,
AND INCLUDES UNCLASSIFIED REPORTS AND TITLES FROM
OPEN LITERATURE. (U)

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-624 286 13/9
FRANKLIN INST RESEARCH LABS PHILADELPHIA PA
BIBLIOGRAPHY (WITH ABSTRACTS) ON GAS-LUBRICATED
BEARINGS. (U)

DESCRIPTIVE NOTE: INTERIM REPT.,
NOV 69 212P PETERS,ALEC IDEVLIN,PATRICIA

REPT. NO. 1-A2049-25
CONTRACT: NONR-2342(00)
PROJ: NR-062-316

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (GAS BEARINGS, BIBLIOGRAPHIES),
ABSTRACTS (U)

BIBLIOGRAPHY (WITH ABSTRACTS) ON GAS-LUBRICATED
BEARINGS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-625 885 12/7
HARRY DIAMOND LABS WASHINGTON D C
FLUERIC (FLUID AMPLIFICATION). 16. A
BIBLIOGRAPHY.
AUG 65 128P
REPT. NO. TR-12J4
PROJ: DA-1P010901A001 ,MDL-21100

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (FLUID AMPLIFIERS, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, FLUID AMPLIFIERS), CONTROL
SYSTEMS, FLUID FLOW, TURBULENCE, TRANSDUCERS,
INSTRUMENTATION, FLOW VISUALIZATION, COMPUTER
LOGIC, JETS, VORTICES, PIPES, DIFFUSERS,
VIBRATION, PATENTS, ACOUSTICS, ABSTRACTS
IDENTIFIERS: FLUID CONTROL DEVICES, FLUID
AMPLIFICATION, FLUERIC

(U)

(U)

A BIBLIOGRAPHY OF FLUERIC (FLUID AMPLIFIER)
DEVICES AND THEORY IS PRESENTED WITH ABSTRACTS FOR
THE MAJORITY. THE BIBLIOGRAPHY INCLUDES 276 TITLES
ON FLUID DEVICES, FLUID CIRCUITS, SENSORS AND
TRANSDUCERS, INSTRUMENTATION AND FLOW VISUALIZATION,
FABRICATION, PATENTS AND DISCLOSURES, AND OTHER
DIRECTLY APPLICABLE TECHNOLOGY. IT ALSO INCLUDES
TITLES ON RELATED TOPICS SUCH AS JETS; VORTEX FLOW;
PIPES, PASSAGES, AND DIFFUSERS; AND VIBRATION AND
ACOUSTIC EFFECTS. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-630 652 12/8 14/2
ARMY MATERIALS RESEARCH AGENCY WATERTOWN MASS MATERIALS
TECHNOLOGY DIV
A REPORT GUIDE TO ULTRASONIC TESTING LITERATURE.
VOLUME I. (U)
DESCRIPTIVE NOTE: MONOGRAPH SERIES,
MAK 66 127P MERHIB, CHARLES P. ;
RODGERS, ERNEST H. ;
MONITOR: AMRA , MS-66-02

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*NON-DESTRUCTIVE TESTING, ULTRASONIC
RADIATION), (*ULTRASONIC RADIATION, NON-
DESTRUCTIVE TESTING), ABSTRACTS, BIBLIOGRAPHIES,
TEST METHODS (U)

THE MAIN OBJECTIVE OF THIS COMPILATION IS TO
PROVIDE A SIMPLE AND FAST ACCESS TO INFORMATION ON
THE SUBJECT OF ULTRASONIC TESTING AND ALSO TO PROVIDE
SUFFICIENT INFORMATION IN THE FORM OF ABSTRACTS AND
WORD DESCRIPTORS TO MAKE THE LISTING USEFUL. THIS
GUIDE IS VOLUME I OF A SERIES OF PLANNED REPORT
GUIDES CONSISTING OF THE COMPLETE COVERAGE OF ITEMS
IN THE AMRA NONDESTRUCTIVE TESTING INFORMATION
ANALYSIS CENTER COVERING THE SUBJECT OF
ULTRASONIC TESTING EXCLUSIVE OF THOSE ITEMS IN THE
CENTER UTILIZING METHODS OF ULTRASONIC ATTENUATION. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000990

AD-634 004 1974 9/1
BATTELLE MEMORIAL INST COLUMBUS OHIO
ELECTRONIC PACKAGING: A BIBLIOGRAPHY, (U)
MAR 66 90P Klapheke, J. W. ; Veazie, W. H. ;
Holt, J. C. ; Easterday, J. L. ;
CONTRACT: DA-01-D21-AMC-11706(2),
MONITOR: RSIC , 534

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (PACKAGING, ELECTRONIC EQUIPMENT),
BIBLIOGRAPHIES, ABSTRACTS, SPACE ENVIRONMENTAL
CONDITIONS, INDEXES (U)

THE ANNOTATED BIBLIOGRAPHY OF SELECTED REPORTS,
JOURNAL ARTICLES, AND MANUFACTURERS' LITERATURE ON
ELECTRONIC PACKAGING PROVIDES A LITERATURE BASIS FOR
ELECTRONIC PACKAGING ENGINEERS TO DESIGN MORE
RELIABLE, MAINTAINABLE, AND ADAPTABLE ELECTRONIC
EQUIPMENT FOR AEROSPACE APPLICATION. THE
LITERATURE SEARCH OF ABSTRACT PUBLICATIONS, PUBLISHED
BIBLIOGRAPHIES, SPECIALIZED INFORMATION CENTERS AND
SERVICES, AND COMPUTER SEARCHES BY RESTONE
SCIENTIFIC INFORMATION CENTER AND DEFENSE
DOCUMENTATION CENTER RESULTED IN THE 476
ABSTRACTS IN THIS BIBLIOGRAPHY WHICH WERE SELECTED
FROM AN INITIAL REVIEW OF APPROXIMATELY 3,000
ARTICLES. SUBJECT INDEXING IS PROVIDED BY
PROPERTIES AND ENVIRONMENTAL EFFECTS ON PACKAGING
MATERIALS, DISCRETE PARTS TO MODULE PACKAGING,
INTEGRATED CIRCUITS TO MODULE PACKAGING, MODULE
PACKAGING TO ASSEMBLY, HOUSING AND MOUNTING,
PACKAGING PRODUCTS, AND INTERCONNECTION TECHNIQUES.
AUTHOR AND CORPORATE AUTHOR INDEXES ARE INCLUDED.
(AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-634 042 13/12
FOREST SERVICE WASHINGTON D C DIV OF FIRE CONTROL
FIRE BIBLIOGRAPHY: SELECTED URBAN, AND MIXED URBAN -
RURAL FIRES, 1940-1964, (U)
MAY 65 49P STOREY, T. G.; DIETERICH, J. H.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPT. ON NATIONAL FIRE
COORDINATION STUDY.

DESCRIPTORS: (FIRES, BIBLIOGRAPHIES), URBAN
AREAS, RURAL AREAS, FIRE SAFETY, NUCLEAR
EXPLOSIONS (U)

THE REPORT PROVIDES AN 'ANNOTATED BIBLIOGRAPHY' OF
SELECTED PAST FIRES THAT WERE CONSIDERED FOR STUDY BY
THE STAFF OF THE FOREST SERVICE AND INCLUDES A BRIEF
SUMMARY AND DESCRIPTION OF: (1) STRICTLY URBAN
FIRES AND (2) FIRES IN MIXED URBAN-RURAL AREAS.
STUDY FIRES WERE CHOSEN FROM THIS PREPARED LIST.
EIGHTY MAJOR FIRES OCCURRING SINCE 1940 ARE
DESCRIBED. OF THESE 80 FIRES, 47 ARE URBAN FIRES
AND 33 ARE MIXED URBAN-RURAL FIRES. THE LISTING OF
FIRES IN THIS MANNER PROVIDES A BASE FROM WHICH
ONE CAN CHOOSE ADDITIONAL FIRES FOR POSSIBLE STUDY, AND MAKES
AVAILABLE THE RESULTS OF OUR SEARCH OF PAST FIRES FOR
PEOPLE WHO IN THE FUTURE MIGHT REVIEW OR STUDY LARGE
FIRES. (AUTHOR) (U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-697 595 . 1379 1472
IIT RESEARCH INST CHICAGO ILL TECHNOLOGY CENTER
BIBLIOGRAPHY. OPTIMUM MECHANICAL DESIGN SYNTHESIS.
VOLUME II. (U)

DESCRIPTIVE NOTE: FINAL TECHNICAL REPT.
JUN 66 1238P PILKEY, W. D. ,
REPT. NO. M6089,
CONTRACT: DA-31-124-AR0(D)-243,
PROJ: DA-2001-0501P700,
MONITOR: AR00 4957:6

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (MECHANICAL ENGINEERING,
EXPERIMENTAL DESIGN), BIBLIOGRAPHIES, SYNTHESIS,
MECHANICAL DRAWINGS, OPTIMIZATION, SHOCK
ABSORBERS, VIBRATION ISOLATORS, DYNAMIC
PROGRAMMING, CALCULUS OF VARIATIONS, DESIGN (U)

OPTIMUM MECHANICAL DESIGN SYNTHESIS: BIBLIOGRAPHY.

UNCLASSIFIED

DUC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-640 374 12/12 16/1 1/9 12/6
AFROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D

C
PROTECTIVE STRUCTURES AND COMPONENTS: COMPILATION OF
ABSTRACTS. (U)

DESCRIPTIVE NOTE: REPT. NO. 1 ON ATD WORK ASSIGNMENT NO.
12,

JUL 66 48P NYBERG, PAUL R. ; PAASCH, JOHN

REPT. NO. ATD-66-90,
MONITOR: TT 66-62455

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON CHICOM AND WESTERN OPEN
SOURCES PUB. 1964-1966. REPT. ON SURVEYS OF CHINESE
COMMUNIST SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (STRUCTURES, ABSTRACTS), LAUNCHING
SITES, GUIDED MISSILE LAUNCHERS, AIRPORTS,
RAILROADS, TRANSPORTATION, SHIPS, CHINA,
BIBLIOGRAPHIES (U)

ABSTRACTS ARE PROVIDED ON MISSILE OR SPACE
VEHICLES, TRANSPORTATION, AND LAUNCH SITE. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000350

AD-642 246 12/12 12/10.1
RAND CORP SANTA MONICA CALIF
FATAL SUBMARINE ACCIDENTS; A BIBLIOGRAPHY, 1900-
1965. (U)
NOV 66 23P RCMIG, MARY F. ;
REPT. NO. P-3481

UNCLASSIFIED REPORT

DESCRIPTORS: (*SUBMARINES, ACCIDENTS),
(*DISASTERS, SUBMARINES), BIBLIOGRAPHIES (U)

THE BIBLIOGRAPHY IS AN OUTGROWTH OF A LARGER STUDY
ON PUBLIC REACTION TO DISASTERS. WARTIME
FATALITIES ARE INCLUDED, EXCEPT FOR THOSE WHICH WERE
CAUSED BY ENEMY ACTION OR THE EXISTENCE OF A STATE OF
WAR. FOR EXAMPLE, BOTH THE TANG AND THE
TULLINEE ACCIDENTS ARE LISTED BECAUSE THAT KIND OF
DISASTER (DESTRUCTION BY THEIR OWN TORPEDOS)
COULD HAVE OCCURRED DURING EXERCISES AS WELL AS
DURING WARTIME. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-648 972 13/2

CONSULTING AND RESEARCH SERVICES INC BRYAN TEX
AN ANNOTATED BIBLIOGRAPHY AND RESEARCH REVIEW ON THE
DEVELOPMENT OF A LONG RANGE PLAN FOR ENGINEERING
RESEARCH ON FLEXIBLE PAVEMENTS. (U)

NOV 66 152P

CONTRACT: N62799-66-0017, NAY-62210

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: A SUPPLEMENT TO AN ANNOTATED
BIBLIOGRAPHY ON POISSON'S RATIO AND MODULUS OF
ELASTICITY OF ASPHALTIC CONCRETE WEARING COURSES.

DESCRIPTORS: (•PAVEMENTS, MECHANICAL
PROPERTIES), (•BIBLIOGRAPHIES, PAVEMENTS),
ASPHALT, CONCRETE, ELASTICITY, NON-DESTRUCTIVE
TESTING, VISCOSITY, POISSONS RATIO,
LOADING(MECHANICS), MAINTENANCE, ROUGHNESS,
COATINGS, WEAR RESISTANCE, PROTECTIVE TREATMENTS (U)

AN ANNOTATED BIBLIOGRAPHY AND RESEARCH REVIEW ON
NAVAL CIVIL ENGINEERING LABORATORY CONTRACT
REPORT CR 67.014 ENTITLED 'DEVELOPMENT OF A
LONG RANGE PLAN FOR ENGINEERING RESEARCH ON
FLEXIBLE PAVEMENTS,' DATED NOVEMBER 1966. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000390

AD-649 629 13/7 20/4
HARRY DIAMOND LABS WASHINGTON D C
FLUIDICS (FLUID AMPLIFICATION). NO. 29. A
BIBLIOGRAPHY.
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SUPPLEMENTARY NOTE: SEE ALSO AD-629 889.

DESCRIPTORS: (FLUID AMPLIFIERS,
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FLUID FLOW

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A BIBLIOGRAPHY IS PRESENTED OF FLUIDIC (FLUID
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OTHER DIRECTLY APPLICABLE CONTRIBUTIONS TO THE
FLUIDIC TECHNOLOGY (51 PAGES). (AUTHOR)

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AND STUDIES OF THE FUTURE, (U)
MAR 67 28P HARRISON, ANNETTE I
REPT. NO. P-3765-2

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PREDICTIONS, COMPUTERS, ECONOMICS,
DOCUMENTATION, EMPLOYMENT, LABOR, MANPOWER,
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THIS PAPER COMPRISES A LIST OF WORKS COLLECTED
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FEDERAL FIRE COUNCIL WASHINGTON D C
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A FIRE EXTINGUISHANT. (U)
APR 67 4P SHOUR, HARRY :

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DESCRIPTORS: (C) CARBON TETRACHLORIDE, FIRE
EXTINGUISHERS, (C) BIBLIOGRAPHIES, CARBON
TETRACHLORIDE, SAFETY, TOXICITY, POISONING (U)

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333

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ABSTRACTS 1-1704 THROUGH 1-1752.
(DCAS-TN61 3 P1 12)
AD-604 746

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BIBLIOGRAPHY RELATING TO THE
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OF ALUMINUM HYDRIDE AND CLOSELY
RELATED COMPOUNDS,
(SSD-TDR64 17)
AD-439 243

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ANNOTATED BIBLIOGRAPHY.
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AD-623 251

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RESEARCH ON THE STRUCTURAL AND
PHYSICAL PROPERTIES OF ZIRCONIA,
AD-610 758

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RANDOM VARIABLES AND THEIR
APPLICATIONS.
AD-603 667

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COMPOUNDS. PART A. ORGANOSILICON
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ABSTRACTS.
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APL-TDR64 4
INVESTIGATION OF SECONDARY
PHENOMENA FOR USE IN CHECKOUT,
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HANSCOM FIELD MASS

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LITERATURE SURVEY ON THE
PREPARATION OF METALS FROM
ORGANOMETALLIC COMPOUNDS,
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IN THE INFRARED.
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AD-414 384

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1951,
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BIBLIOGRAPHY,

(RSIC-534)
AD-634 004

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DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS,
AD-426 732

FLUIDIZED-BED COATING WITH
ORGANIC AND INORGANIC MATERIALS,
(RSIC-238)
AD-456 647

PHYSICAL AND CHEMICAL
PROPERTIES OF BIS(ANILINO) SILANES
AND 4,4'-DIHYDROXYBIPHENYL,
(RSIC-257)
AD-456 734

THE FABRICATION OF BERYLLIUM,
(RSIC-227)
AD-464 975

THE EFFECTS OF GAS OCCLUSIONS
AND STRAINS ON THE MAGNETIC
PROPERTIES OF THIN PERMALLOY FILMS.
(RSIC-416)
AD-471 647

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CENTER SELECTED ACCESSIONS,
AD-606 314

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DEFENSE METALS INFORMATION CENTER

DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS,
AD-407 822

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CENTER SELECTED ACCESSIONS,
AD-410 839

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CENTER SELECTED ACCESSIONS,
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CENTER SELECTED ACCESSIONS,
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CENTER SELECTED ACCESSIONS,
AD-422 768

DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS.

AD-424 558

DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS,
AD-433 095

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CENTER SELECTED ACCESSIONS,
AD-602 397

DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS,
AD-606 824

DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS,
AD-616 389

M170
CREEP OF COLUMBIUM ALLOYS,
AD-424 097

M179
SHORT-TIME TENSILE PROPERTIES
OF THE CO-20CR15W-1-NI COBALT-BASE
ALLOY (L-605),
AD-425 922

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RADIATION EFFECTS INFORMATION
CENTER

MAL76
MONTHLY ACCESSION LIST,
ABSTRACT NO. 24313 TO 24385, PART
I.
AD-602 163

*BOEING SCIENTIFIC RESEARCH LABS
SEATTLE WASH MATHEMATICS RESEARCH
LAB

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LITERATURE FOR SCIENTIFIC COMPUTER
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MATHEMATICAL NOTE-456
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LITERATURE FOR SCIENTIFIC COMPUTER
USERS.
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FOR DYNAMICAL SYSTEMS

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CONTROL AND STABILITY FOR

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(AFOSR-66-1422)
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BIBLIOGRAPHY 241
SELECTED BIBLIOGRAPHY OF SOIL
MECHANICS AND FOUNDATION
ENGINEERING,
AD-448 594

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OFFICE OF CHIEF ENGINEER
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ANNOTATED BIBLIOGRAPHY OF
BRATSK AND KRASNOIARSK
HYDROELECTRIC PROJECTS IN CENTRAL
SIBERIA, USSR,
(TT-66-62544)
AD-641 304

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ENGINEERING RESEARCH
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CRITICAL COMPILATION OF CERAMIC
FORMING METHODS.
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AD-425 552

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GRADUATE SCHOOL OF INDUSTRIAL
ADMINISTRATION
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MSRR-33
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RESEARCH ON INFORMATION SYSTEMS.
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LABS EDGEWOOD ARSENAL MD
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12
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83
A BIBLIOGRAPHY ON WINTER
CONSTRUCTION 1940 - 1963,
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PERMAFROST WITH ABSTRACTS. VOLUME
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TECHNIQUES AND MATERIALS.
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SOIL THERMAL PROPERTIES: AN
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EQUATIONS.
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ELECTROMAGNETIC SHIELDING OF
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CENTER

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HYDROCARBONS AS RELATED TO ORGANIC
INSULATION BREAKDOWN,
AD-465 159

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DIAPHRAGMS, A SELECTED
BIBLIOGRAPHY,
AD-623 361

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PLASTICS,
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ALLOYS, COMPILATION OF ABSTRACTS.
AD-456 764

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STRUCTURES AND COMPONENTS. REVIEW
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LOC-LOC

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ANNOTATED BIBLIOGRAPHY BASED ON
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INSTRUMENTATION USED IN
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USSR.
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PURIFICATION OF BORON.
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COMPILATION OF ABSTRACTS,
(TT-67-60231)
AD-643 854

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COMPUTER TECHNOLOGY.
(TT-67-60967)
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SOVIET AIRCRAFT CIRCUIT
BREAKERS.
(TT-65-62675)
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AD-466 287

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MEASUREMENT OF GASES; COMPILATION
OF ABSTRACTS.
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AD-618 532

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ORGANOMETALLIC COMPOUNDS.
AD-460 446

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LUMINESCENCE OF COMPLEX
MOLECULES. BIBLIOGRAPHY.
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ASYNCHRONOUS ACTIONS.
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ORGANOSILICON AND
ORGANOMETALLIC COMPOUNDS.
AD-456 761

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U64 74
BORON, ITS COMPOUNDS, AND ITS
ALLOYS; COMPILATION OF ABSTRACTS.
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STRUCTURE OF ORGANIC CRYSTALS.
(ANNOTATED BIBLIOGRAPHY).
AD-455 164

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U 64 81
CHEMISTRY OF RARE EARTHS AND
ACTINIDES. COMPILATION OF
ABSTRACTS, ANNOTATIONS, AND
SUMMARIES.
AD-455 165

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CALIF

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CHARACTERISTICS: AN ANNOTATED
BIBLIOGRAPHY.
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ELECTRICAL ELECTRONIC SYSTEMS BY
MEANS OF DIGITAL COMPUTERS: AN
ANNOTATED BIBLIOGRAPHY.
AD-439 440

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PCM TELEMETRY: AN ANNOTATED
BIBLIOGRAPHY.
AD-439 442

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3 26 63 5
IRON PLATING: AN ANNOTATED
BIBLIOGRAPHY.
AD-431 627

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3 26 63 6
NICKEL-IRON PERMALLOY FILMS:

AN ANNOTATED BIBLIOGRAPHY,
AD-439 443

3 77 63 1
GEARS, BEARINGS AND LUBRICANTS
FOR AEROSPACE APPLICATION: AN
ANNOTATED BIBLIOGRAPHY,
AD-441 583

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BIBLIOGRAPHY OCTOBER DECEMBER 1962,
SUPPLEMENT III,
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THERMODYNAMICS OF REFRACTORY
COMPOUNDS OF BERYLLIUM (OXIDES,
BORIDES, CARBIDES, AND NITRIDES):
AN ANNOTATED BIBLIOGRAPHY,
AD-439 445

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BERYLLIUM: A SURVEY OF THE
LITERATURE JANUARY JUNE 1963: AN
ANNOTATED BIBLIOGRAPHY,
AD-439 444

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JOINING OF BERYLLIUM AND ITS
ALLOYS BY WELDING AND/OR BRAZING:
AN ANNOTATED BIBLIOGRAPHY,
AD-436 023

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THE GEOMAGNETIC FIELD: AN
ANNOTATED BIBLIOGRAPHY,
AD-441 621

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THERMIT WELDING: A SELECTIVE
BIBLIOGRAPHY,
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ABNORMAL GRAIN GROWTH IN
ALUMINUM AND ITS ALLOYS: AN
ANNOTATED BIBLIOGRAPHY,
AD-426 010

6 90 63 311
THE DIFFUSION OF HYDROGEN AND
OTHER LIGHT GASES THROUGH
MEMBRANES, POROUS MEDIA, AND THIN
PLATES: AN ANNOTATED BIBLIOGRAPHY,
AD-418 234

8 30 63 2
FUSION WELDING OF ALUMINUM: AN

ANNOTATED BIBLIOGRAPHY,
AD-431 626

8 40 63 9
DIFFUSION BONDING: AN ANNOTATED
BIBLIOGRAPHY,
AD-423 723

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STRUCTURAL STABILITY OF
TOROIDAL SHELLS: AN ANNOTATED
BIBLIOGRAPHY,
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RESEARCH ON AUTOMATIC COMPUTER
ELECTRONICS.
AD-420 950

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AUXILIARY POWER SYSTEMS FOR
SPACECRAFT, AN ANNOTATED
BIBLIOGRAPHY,
AD-423 714

63 16
THERMODYNAMICS OF REFRACTORY
COMPOUNDS OF BERYLLIUM (OXIDES,
BORIDES, CARBIDES, AND NITRIDES):
AN ANNOTATED BIBLIOGRAPHY,
AD-439 445

REPT. NO. SB62 691
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MOLYBDENUM AND COLUMBIUM: AN
ANNOTATED BIBLIOGRAPHY,
AD-407 519

SB-59-12
BEARINGS - EXTREME TEMPERATURE
APPLICATIONS.
AD-462 681

SB-59-49
CIRCUIT ANALYSIS AND PARAMETER
STUDIES.
AD-462 688

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POLYTETRAFLUOROETHYLENE
POLYURETHANES AND OTHER PLASTIC
MATERIALS.
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HIGH TEMPERATURE STRAIN GAGES
AND BONDING MATERIALS.
AD-462 692

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SB-60-37
TANTALUM CAPACITORS. A
PRELIMINARY SURVEY OF THE
LITERATURE,
AD-606 235

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SB62 22
BERYLLIUM: AN ANNOTATED
BIBLIOGRAPHY OCTOBER DECEMBER 1962,
SUPPLEMENT III,
AD-438 176

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ELECTRONIC COMPUTERS: AN ANNOTATED
BIBLIOGRAPHY,
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MOLYBDENUM, NIOBIUM AND TUNGSTEN
BORIDES, CARBIDES AND SILICIDES:
AN ANNOTATED BIBLIOGRAPHY,
AD-410 526

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SB63 44
DIFFUSION BONDING: AN ANNOTATED
BIBLIOGRAPHY,
AD-423 723

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SB63 46
AUXILIARY POWER SYSTEMS FOR
SPACECRAFT. AN ANNOTATED
BIBLIOGRAPHY,
AD-423 714

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STRUCTURAL STABILITY OF
TOROIDAL SHELLS: AN ANNOTATED
BIBLIOGRAPHY,
AD-423 823

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SB63 54
BERYLLIUM: A SURVEY OF THE
LITERATURE JANUARY JUNE 1963: AN
ANNOTATED BIBLIOGRAPHY,
AD-439 444

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SB63 55
IRON PLATING: AN ANNOTATED
BIBLIOGRAPHY,
AD-431 627

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SB63 56
FUSION WELDING OF ALUMINUM: AN
ANNOTATED BIBLIOGRAPHY,
AD-431 626

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SB 63 59

GEARS, BEARINGS AND LUBRICANTS
FOR AEROSPACE APPLICATION: AN
ANNOTATED BIBLIOGRAPHY,
AD-441 583

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SB63 62

NICKEL-IRON PERMALLOY FILMS:
AN ANNOTATED BIBLIOGRAPHY,
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THE GEOMAGNETIC FIELD: AN
ANNOTATED BIBLIOGRAPHY,
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ELECTRICAL ELECTRONIC SYSTEMS BY
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SB63 495 10 63 22

COMPOSITE MATERIALS: AN
ANNOTATED BIBLIOGRAPHY, SUPPLEMENT
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BIBLIOGRAPHY,
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BIBLIOGRAPHY,
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ALUMINUM AND ITS ALLOYS: AN
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RANDOM VARIABLES AND THEIR
APPLICATIONS.
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LOGARITHMIC SERIES DISTRIBUTION AND
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UNIFORM RESEARCH PUBLICATIONS.
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AD-627 183

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EPITAXIAL FILMS.
AD-432 344

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RHEOLOGY OF FILLED SYSTEMS.
AD-488 382

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HPC-65-7
EXPERIMENTAL DATA TO SUPPORT
EXISTING THEORIES ON THE PHYSICAL
AND MECHANICAL PROPERTIES OF
COMPOSITE MATERIALS.
AD-488 386

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FIBERS FOR HIGH PERFORMANCE
COMPOSITES.
AD-488 387

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RESEARCH COUNCIL WASHINGTON D C
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FROM SEAWATER. AN ANNOTATED
BIBLIOGRAPHY OF METHODS, APPLICABLE
ALSO TO ANALYSIS AND TO RELATED
SOLUTIONS,
AD-648 138

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LITERATURE ABSTRACTS,
AD-420 421

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LITERATURE ABSTRACTS.
AD-430 693

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LITERATURE ABSTRACTS.
AD-601 224

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AD-613 358

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AD-617 132

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RELATED PHENOMENA IN HIGH-STRENGTH
STEELS. A REVIEW OF THE PROBLEM,
WITH AN ANNOTATED BIBLIOGRAPHY,
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MULTIPROCESSOR OPERATING
SYSTEMS,
AD-651 707

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SURFACE,
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AN ANNOTATED BIBLIOGRAPHY OF

RECENT PAPERS AND REPORTS ON THE
SUBJECT OF AMBIENT TEMPERATURE
AQUEOUS STRESS-CORROSION CRACKING
OF TITANIUM AND TITANIUM ALLOYS,
AD-642 128

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INTERNAL WAVES IN THE SEA.
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BIBLIOGRAPHY OF SCHLICHT
FUNCTIONS.
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SCATTERING PROBLEMS AND ATOMIC
STRUCTURE.
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CALIF
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AEROSPACE CORROSION AND
MOISTURE PROBLEMS: A REVIEW OF THE
RESEARCH REPORTS,
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STATIC DIRECT SHEAR APPARATUS FOR
SOILS AND ANNOTATED BIBLIOGRAPHIES
OF SOIL DYNAMICS AND CRATERING,
(RTD-TOR63 3050)
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PROTECTIVE COATINGS FOR
CONCRETE,
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ANNOTATED BIBLIOGRAPHY
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PROPERTIES TO THE STRUCTURE OF
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(AMRA-CR-66-07/1)
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PARK MINERAL INDUSTRIES EXPERIMENT
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CONTRACTS.
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RESEARCH LABS
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PROPERTIES OF THE SODIUM,
POTASSIUM, AND RUBIDIUM NITRATES,
CHLORATES, AND BROMATES,
AD-452 319

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DOVER N J
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SUBJECT INDEX, BIBLIOGRAPHY,
AND CODE DESCRIPTION OF TECHNICAL
CONFERENCE PAPERS ON PLASTICS: 28
FEB 63-1 MAR 64.
AD-606 561

13
FLUIDIZED-BED COATING WITH
PLASTICS: TECHNOLOGY AND POTENTIAL
FOR MILITARY APPLICATIONS,
AD-431 603

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PLASTEC-21
SUBJECT INDEX, BIBLIOGRAPHY,
AND CODE DESCRIPTION OF TECHNICAL
CONFERENCE PAPERS ON PLASTICS: 2
MARCH 1964-5 MARCH 1965,
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PLASTEC NOTE-15
FERROCENE POLYMERS: AN
ANNOTATED BIBLIOGRAPHY.,

PLA-PRE

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MILITARY APPLICATIONS OF
PLASTICS AND RELATED MATERIALS,
AD-653 837

* * *

PTEC-14
SUBJECT INDEX, BIBLIOGRAPHY,
AND CODE DESCRIPTION OF TECHNICAL
CONFERENCE PAPERS ON PLASTICS: 10
FEBRUARY 1962-10 FEBRUARY 1963,
AD-423 560

* * *

PTEC-PN7
LITERATURE SURVEY ON THERMAL
DEGRADATION, THERMAL OXIDATION, AND
THERMAL ANALYSIS OF HIGH POLYMERS,
AD-423 546

*PLASTICS TECHNICAL EVALUATION CENTER
PICATINNY ARSENAL DOVER N J

* * *

PLASTEC-27
SUBJECT INDEX, BIBLIOGRAPHY,
AND CODE DESCRIPTION OF TECHNICAL
CONFERENCE PAPERS ON PLASTICS: 5
MARCH 1965 - 10 MARCH 1966,
AD-641 666

* * *

PLASTEC NOTE-11
CROSSLINKING, THERMAL AND
MECHANICAL PROPERTIES OF
THERMOPLASTIC AND PHENOLIC RESIN
SYSTEMS; A BIBLIOGRAPHY.
AD-634 234

* * *

PLASTEC NOTE-12
DIELECTRIC PROPERTIES OF
POLYMERS. A BIBLIOGRAPHY.
AD-635 799

*PREVENTION OF DETERIORATION CENTER
NAS-NRC WASHINGTON D C

* * *

PDC-S63-003
EFFECTS OF VAN ALLEN RADIATION
BELTS ON ELECTRONIC MATERIALS.
AD-601 298

* * *

PDC S64 002 PDL50728
THE AGING OF NATURAL AND
SYNTHETIC RUBBER AND RUBBER
PRODUCTS.
AD-601 249

* * *

PDC SEARCH NO. 62-051
BIBLIOGRAPHY ON DEGRADATION OF
TEXTILES BY MICROORGANISMS,

WEATHERING AND ATMOSPHERIC
POLLUTANTS,
AD-621 544

* * *

PDC SEARCH NO. 63-057
ELASTOMERS FOR HIGH TEMPERATURE
APPLICATIONS,
AD-621 545

* * *

PDC SEARCH NO. 64-009
REINFORCED PLASTICS AND
LAMINATES FOR HOT STRUCTURES (600 F
AND ABOVE),
AD-621 547

* * *

PDL40596
BIBLIOGRAPHY ON CORROSION
INHIBITORS FOR NONFERROUS METALS. *
AD-601 238

* * *

PDL41293
AN INTRODUCTORY BIBLIOGRAPHY ON
MICROBIAL RESISTANCE OF
THERMOSETTING PLASTICS.
AD-601 278

* * *

PDL 42275
BIBLIOGRAPHY ON POLYETHYLENE
SHEATHED CABLES.
AD-601 286

* * *

PDL42278
BIBLIOGRAPHY ON PROPERTIES AND
DEGRADATION OF POLYETHYLENE
THEREPHTHALATE AND METHYL
METHACRALATE POLYMERS.
AD-601 282

* * *

PDL42279
BIBLIOGRAPHY ON MICROBIOLOGICAL
DETERIORATION OF PAINT FILMS.
AD-601 288

* * *

PDL42283
BIBLIOGRAPHY ON DEGRADATION OF
POLY(VINYL CHLORIDE) BY SOIL
MICROORGANISMS.
AD-601 285

* * *

PDL42285
BIBLIOGRAPHY ON BACTERIAL
DEGRADATION OF TEXTILES AND
CELLULOSE.
AD-601 280

* * *

PDL43215
INTRODUCTORY BIBLIOGRAPHY ON
COLLECTION, IDENTIFICATION, AND
STORAGE OF ANAEROBIC BACTERIA.

AD-601 303

* * *

PDL 43216

SPRAYED METALLIC COATINGS FOR
FERROUS METALS, AN INTRODUCTORY
BIBLIOGRAPHY,
AD-601 304

* * *

PDL44131

BIBLIOGRAPHY ON MARINE FUNGI
AND ALGAE. THEIR FOULING PROBLEMS
AND CONTROL.
AD-601 305

* * *

PDL44360

BIBLIOGRAPHY ON OZONE
DETERIORATION OF RUBBER.
AD-601 291

* * *

PDL44481

BIBLIOGRAPHY ON MICROORGANISMS
AFFECTING PETROLEUM AND PETROLEUM
PRODUCTS INCLUDING REPORTS ON
SULFATE-REDUCING BACTERIA.
AD-601 290

* * *

PDL44499

SELECTED LITERATURE REFERENCES
ON CRITICAL RELATIVE HUMIDITIES FOR
CORROSION-AND FUNGUSFREE STORAGE.
AD-601 307

* * *

PDL45268

BIBLIOGRAPHY ON RESISTANCE OF
PLASTICS TO MICROORGANISMS,
INSECTS, RODENTS AND OTHER PESTS.
AD-601 309

* * *

PDL 45762

EFFECTS OF STORAGE ON
ELECTRONIC EQUIPMENT AND
COMPONENTS, A PRELIMINARY
LITERATURE SURVEY,
AD-601 311

* * *

PDL-45840

BIBLIOGRAPHY ON DEGRADATION OF
TEXTILES BY MICROORGANISMS,
WEATHERING AND ATMOSPHERIC
POLLUTANTS,
AD-621 544

* * *

PDL45936

BIBLIOGRAPHY ON CORROSION
RESISTANCE OF CADMIUM COATINGS.
AD-601 294

* * *

PDL 46037

EFFECTS OF FUNGI ON ELECTRIC

AND ELECTRONIC EQUIPMENT.
AD-601 301

* * *

PDL-46195

EFFECTS OF VAN ALLEN RADIATION
BELTS ON ELECTRONIC MATERIALS.
AD-601 298

* * *

PDL46448

BIBLIOGRAPHY ON METAL-BONDING
ADHESIVES.
AD-601 299

* * *

PDL 48073

REFERENCES PERTAINING TO
CORROSION RESISTANCE OF ZINC AND
ZINC COATINGS UNDER CONDITIONS OF
HIGH HUMIDITY OR IN CONTACT WITH
GROUND WATERS,
AD-601 300

* * *

PDL43074

BIBLIOGRAPHY ON MICROBIAL
CORROSION OF METALS.
AD-601 247

* * *

PDL49379

BIBLIOGRAPHY ON AGING OF
NATURAL AND SYNTHETIC RUBBER AND
RUBBER PRODUCTS IN STORAGE.
AD-601 284

* * *

PDL49630

PRESERVATION OF INACTIVE
EQUIPMENT AND LONG-TERM STORAGE OF
MATERIALS,
AD-600 642

* * *

PDL49679

BIBLIOGRAPHY ON VAPOR PHASE
CORROSION INHIBITORS FOR NONFERROUS
AND FERROUS METALS,
AD-600 643

* * *

PDL49705

FOULING BY MARINE ANIMALS AND
ANTIFOULING METHODS.
AD-601 310

* * *

PDL50066

PACKAGING OF ELECTRONIC
EQUIPMENT FOR TRANSPORTATION IN
VIBRATION ENVIRONMENTS WITH
EMPHASIS ON SEAGOING VEHICLES,
AD-600 530

* * *

PDL50140

PERFORMANCE ABOVE 1000 F OF
SUPERALLOYS AND PROTECTIVE

PLA-PRE

COATINGS.
AD-601 295

* * *

PDL-50174
ELASTOMERS FOR HIGH TEMPERATURE
APPLICATIONS,
AD-621 545

* * *

PDL-50205
PROTECTIVE COATING SYSTEMS FOR
NIOBIUM IN THE RANGE 1800 - 2500 F,
AD-621 546

* * *

PDL-50534
REINFORCED PLASTICS AND
LAMINATES FOR HOT STRUCTURES (600 F
AND ABOVE),
AD-621 547

* * *

PDL50915
POLYURETHANE COATINGS USE AND
PERFORMANCE.
AD-601 279

* * *

S58 003
BIBLIOGRAPHY ON BACTERIAL
DEGRADATION OF TEXTILES AND
CELLULOSE.
AD-601 280

* * *

S60 041
BIBLIOGRAPHY ON CORROSION
INHIBITORS FOR NONFERROUS METALS.
AD-601 238

* * *

S61 003
BIBLIOGRAPHY ON POLYETHYLENE
SHEATHED CABLES.
AD-601 286

* * *

S61 007
BIBLIOGRAPHY ON DEGRADATION OF
POLY(VINYL CHLORIDE) BY SOIL
MICROORGANISMS.
AD-601 285

* * *

S61 016
BIBLIOGRAPHY ON AGING OF
NATURAL AND SYNTHETIC RUBBER AND
RUBBER PRODUCTS IN STORAGE.
AD-601 284

* * *

S61 018
BIBLIOGRAPHY ON MICROBIOLOGICAL
DETERIORATION OF PAINT FILMS.
AD-601 288

* * *

S61 027
AN INTRODUCTORY BIBLIOGRAPHY ON

MICROBIAL RESISTANCE OF
THERMOSETTING PLASTICS.
AD-601 278

* * *

S61 037
BIBLIOGRAPHY ON PROPERTIES AND
DEGRADATION OF POLYETHYLENE
THEREPHTHALATE AND METHYL
METHACRALATE POLYMERS.
AD-601 282

* * *

S62 010
INTRODUCTORY BIBLIOGRAPHY ON
COLLECTION, IDENTIFICATION, AND
STORAGE OF ANAEROBIC BACTERIA.
AD-601 303

* * *

S62 013
SPRAYED METALLIC COATINGS FOR
FERROUS METALS, AN INTRODUCTORY
BIBLIOGRAPHY,
AD-601 304

* * *

S62 028
BIBLIOGRAPHY ON MARINE FUNGI
AND ALGAE. THEIR FOULING PROBLEMS
AND CONTROL.
AD-601 305

* * *

S62 033
BIBLIOGRAPHY ON OZONE
DETERIORATION OF RUBBER.
AD-601 291

* * *

S62 037
BIBLIOGRAPHY ON MICROORGANISMS
AFFECTING PETROLEUM AND PETROLEUM
PRODUCTS INCLUDING REPORTS ON
SULFATE-REDUCING BACTERIA.
AD-601 290

* * *

S62 038
SELECTED LITERATURE REFERENCES
ON CRITICAL RELATIVE HUMIDITIES FOR
CORROSION-AND FUNGUSFREE STORAGE.
AD-601 307

* * *

S62 044
BIBLIOGRAPHY ON RESISTANCE OF
PLASTICS TO MICROORGANISMS,
INSECTS, RODENTS AND OTHER PESTS.
AD-601 309

* * *

S62 049
FOULING BY MARINE ANIMALS AND
ANTIFOULING METHODS.
AD-601 310

* * *

S62 053

EFFECTS OF STORAGE ON
ELECTRONIC EQUIPMENT AND
COMPONENTS, A PRELIMINARY
LITERATURE SURVEY,
AD-601 311

* * *

S62 058
BIBLIOGRAPHY ON CORROSION
RESISTANCE OF CADMIUM COATINGS.
AD-601 294

* * *

S63 001
EFFECTS OF FUNGI ON ELECTRIC
AND ELECTRONIC EQUIPMENT.
AD-601 301

* * *

S63 004
BIBLIOGRAPHY ON METAL-BONDING
ADHESIVES.
AD-601 299

* * *

S63 022
REFERENCES PERTAINING TO
CORROSION RESISTANCE OF ZINC AND
ZINC COATINGS UNDER CONDITIONS OF
HIGH HUMIDITY OR IN CONTACT WITH
GROUND WATERS,
AD-601 300

* * *

S63 025
BIBLIOGRAPHY ON MICROBIAL
CORROSION OF METALS.
AD-601 247

* * *

S63 045
PRESERVATION OF INACTIVE
EQUIPMENT AND LONG-TERM STORAGE OF
MATERIALS,
AD-600 642

* * *

S63 046
BIBLIOGRAPHY ON VAPOR PHASE
CORROSION INHIBITORS FOR NONFERROUS
AND FERROUS METALS,
AD-600 643

* * *

S63 048
PACKAGING OF ELECTRONIC
EQUIPMENT FOR TRANSPORTATION IN
VIBRATION ENVIRONMENTS WITH
EMPHASIS ON SEAGOING VEHICLES.
AD-600 530

* * *

S63 050
PERFORMANCE ABOVE 1000 F OF
SUPERALLOYS AND PROTECTIVE
COATINGS.
AD-601 295

* * *

S64 011
POLYURETHANE COATINGS USE AND
PERFORMANCE.
AD-601 279

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INORGANIC STRUCTURE AND
SPECTRA.
(AFOSR-65-0980)
AD-618 041

*PRINCETON UNIV N J PLASTICS LAB

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INDEX OF TECHNICAL REPORTS AND
PUBLICATIONS.
AD-418 119

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IND

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PROTECTIVE COATINGS FOR
CONCRETE,
(ORDL-EC-TR2 29)
AD-602 727

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CLASSIFICATION TECHNIQUES.
AD-601 886

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ENGINEERING COMMAND NATICK MASS

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DETERIORATION OF HYDROCARBONS AND
THE RELATED DEGRADATION OF
EQUIPMENT USED FOR THE STORAGE,
DISTRIBUTION AND HANDLING OF
PETROLEUM PRODUCTS.
AD-453 361

*RAND CORP SANTA MONICA CALIF

* * *

P-3365-2
BIBLIOGRAPHY ON AUTOMATION AND
TECHNOLOGICAL CHANGE AND STUDIES OF
THE FUTURE,
AD-650 074

* * *

P-3481
FATAL SUBMARINE ACCIDENTS: A
BIBLIOGRAPHY, 1900-1965,
AD-642 346

* * *

RM-3951-1-PR
DYNAMIC PROGRAMMING: A
BIBLIOGRAPHY OF THEORY AND

RCA-ROC

APPLICATION:
AD-603 387

* * *

RM3951PR
DYNAMIC PROGRAMMING: A
BIBLIOGRAPHY OF THEORY AND
APPLICATION:
AD-429 915

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BIBLIOGRAPHY, 1964,
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ALGORITHMIC LANGUAGE FOR ECONOMICS
CALCULATIONS (PRELIMINARY VERSION),
(TT-66-62381)
AD-639 837

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COMPATIBLE ACTIVE THIN-FILM
INTEGRATED STRUCTURES.
AD-425 795

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6 501 2
A SURVEY OF GEODESIC LENS
SCANNING ANTENNAS:
AD-424 354

*REDSTONE SCIENTIFIC INFORMATION
CENTER REDSTONE ARSENAL ALA

* * *

291
HAZARDS DUE TO HYDROGEN ABOARD
A SPACE VEHICLE:
AD-454 476

* * *

RSIC-84
MANUFACTURING PROCESSES FOR
LIQUID HYDROGEN:
AD-431 830

* * *

RSIC-227
THE FABRICATION OF BERYLLIUM.
AD-464 975

* * *

RSIC-236
FLUIDIZED-BED COATING WITH
ORGANIC AND INORGANIC MATERIALS.
AD-456 647

* * *

RSIC-257
PHYSICAL AND CHEMICAL

PROPERTIES OF BIS(ANILINO) SILANES
AND 4,4'-DIHYDROXYBIPHENYL.
AD-456 734

* * *

RSIC-381
SILICON CARBIDE FOR
SEMICONDUCTORS,
AD-464 777

* * *

RSIC-416
THE EFFECTS OF GAS OCCLUSIONS
AND STRAINS ON THE MAGNETIC
PROPERTIES OF THIN PERMALLOY FILMS.
AD-471 647

* * *

RSIC-534
ELECTRONIC PACKAGING: A
BIBLIOGRAPHY,
AD-634 004

* * *

RSIC-591
FERROCENE AND FERROCENE
DERIVATIVES.
AD-645 876

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AFB D C

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RTD-TDR63 3050
PRELIMINARY DESIGN OF DYNAMIC-
STATIC DIRECT SHEAR APPARATUS FOR
SOILS AND ANNOTATED BIBLIOGRAPHIES
OF SOIL DYNAMICS AND CRATERING.
AD-429 964

* * *

RTD-TDR63 4069
CRITICAL COMPILATION OF CERAMIC
FORMING METHODS.
AD-425 552

* * *

RTD-TDR 63 4141
CIRCULAR WAVEGUIDE DUPLEXERS
AND CIRCULAR WAVEGUIDE MICROWAVE
TRANSMISSION LINE,
AD-431 733

* * *

RTD-TR8 109
TANTALUM ALLOY TUBING
DEVELOPMENT PROGRAM.
AD-427 992

*ROCK ISLAND ARSENAL ILL

* * *

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PREVENTIVES - LITERATURE REPORT.
AD-432 503

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HAVEN CONN

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CONTAMINANTS ON CORROSION -
LITERATURE REPORT,
AD-420 117

*ROME AIR DEVELOPMENT CENTER GRIFFISS
AFB N Y

* * *

RADC-TDR63 209
ATOMIC ABSORPTION SPECTROSCOPY,
AD-606 049

*ROYAL AIRCRAFT ESTABLISHMENT
FARNBOROUGH (ENGLAND)

* * *

TR-65151
GLASS TRANSITION TEMPERATURES
OF HOMOPOLYMERS: A BIBLIOGRAPHY AND
ASSESSMENT OF AVAILABLE DATA.
AD-476 067

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D C

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INDEX OF SHIP STRUCTURE
COMMITTEE PUBLICATIONS.
AD-613 270

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FORCE STATION CALIF

* * *

DIFFUSION BIBLIOGRAPHY,
AD-464 881

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SSD-TDR64 17
UNCLASSIFIED ANNOTATED
BIBLIOGRAPHY RELATING TO THE
SYNTHESIS AND PHYSICAL PROPERTIES
OF ALUMINUM HYDRIDE AND CLOSELY
RELATED COMPOUNDS,
AD-439 243

*SPERRY RAND CORP CLEARWATER FLA
SPERRY MICROWAVE ELECTRONICS DIV

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CIRCULAR WAVEGUIDE DUPLEXERS
AND CIRCULAR WAVEGUIDE MICROWAVE
TRANSMISSION LINE,
(RTD-TDR 63 4141)
AD-431 733

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PHENOMENA IN AEROSOL DISSEMINATION.
AD-468 320

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RESEARCH ON COMPUTER NEURISTOR
DEVICES.
AD-610 095

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STR-17

LITERATURE SURVEY PERTAINING TO
ELECTRICALLY SMALL ANTENNAS,
PROPAGATION THROUGH VEGETATION, AND
RELATED TOPICS.
AD-629 155

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ELECTRONICS LABS

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REPORTS ISSUED BY STANFORD
ELECTRONICS LABORATORIES DURING
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ALGEBRAS ON GROUPS INCLUDING
BIBLIOGRAPHY OF NOTES AND
PUBLICATIONS.*
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AD-416 525

*SYLVANIA ELECTRONIC SYSTEMS-WEST
MOUNTAIN VIEW CALIF ELECTRONIC
DEFENSE LABS

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M557
FERROELECTRIC BIBLIOGRAPHY
SUPPLEMENT,
AD-433 653

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FUNCTIONS.
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CALIF

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MEDICINE AND THE BIOLOGICAL
SCIENCES BIBLIOGRAPHY - II,
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INVESTIGATION OF SECONDARY
PHENOMENA FOR USE IN CHECKOUT,
(APL-TDR64 4)
AD-431 821

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SERVICES DIV

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AN INVENTORY OF GEOGRAPHIC
RESEARCH OF THE HUMID TROPIC
ENVIRONMENT. VOLUME I. KWIC INDEX.
HUMID TROPIC ENVIRONMENTAL
LITERATURE,
AD-625 426

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LAB

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DRL-A-285
REFLECTION AND SCATTERING OF
SOUND BY THE OCEAN BOUNDARIES: A
BIBLIOGRAPHY,
AD-654 716

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ANGELES CALIF

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STL-B-31
NUCLEATE BOILING. A LITERATURE
SURVEY OF UNCLASSIFIED REPORTS,
AD-607 632

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NUCLEATE BOILING. A LITERATURE

SURVEY OF UNCLASSIFIED REPORTS,
AD-607 632

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THE EFFECT OF STRUCTURAL
CHANGES ON THE PYROLYSIS OF ORGANIC
ESTERS.
(AFOSR-64 2343)
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RESEARCH LABS FOR THE ENGINEERING
SCIENCES

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BIBLIOGRAPHY ON EARTH MOVEMENT,
AD-641 716

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TITANIUM BIBLIOGRAPHY 1900-
1951,
AD-630 129

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TITANIUM BIBLIOGRAPHY 1900-
1951.
AD-630 113

•WATERVLIET ARSENAL N Y

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WVT-RR6315
WHISKERS AND WHISKER-
STRENGTHENED COMPOSITE MATERIALS,
AD-426 365

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ELECTROCHEMISTRY RESEARCH LAB

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THE PHYSICAL AND CHEMICAL
PROPERTIES OF DILUTE ALKALI METAL
AMALGAMS. A REVIEW. PART II:
CHEMICAL PROPERTIES AND STRUCTURES,
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BIBLIOGRAPHY OF REPORTS. 1962.
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OCCURRENCE OF NORMAL PARAFFIN
HYDROCARBONS IN NATURE. TABLES AND
BIBLIOGRAPHY.
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PATTERSON AFB OHIO

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WADD-TR61 74
RESEARCH AND DEVELOPMENT ON
ADVANCED GRAPHITE MATERIALS.
VOLUME XLI SURVEY AND ANALYTICAL
REPRESENTATION OF THE MEASUREMENTS
OF THE SPECIFIC HEAT OF GRAPHITE,
AD-427 316

SUBJECT INDEX

* CRYOGENICS
HYDROGEN

MANUFACTURING AND HANDLING
PROCESSES FOR LIQUID HYDROGEN
PRODUCTION; REPORT INCLUDES AN
ANNOTATED BIBLIOGRAPHY OF 443
REFERENCES FROM 1958 TO 1963.
AD-431 830

*ABSTRACTS

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SCIENTIFIC AND TECHNICAL JOURNALS
ON ELECTRONICS, ENGINEERING, AND
SPACE FLIGHT.

AD-405 658

TRANSLATION OF ABSTRACTS ON EAST
EUROPEAN RESEARCH IN CHEMISTRY.

AD-406 734

ABSTRACTS PERTAINING TO
COMMUNIST CHINA IN SOVIET ABSTRACT
JOURNALS. SUBJECTS INCLUDE CHEMISTRY
AND METALLURGY.

AD-406 745

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SCIENTIFIC AND TECHNICAL JOURNALS
OF HUNGARY (CHEMISTRY SERIES).

AD-408 845

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ARTICLES FROM EAST EUROPEAN
SCIENTIFIC AND TECHNICAL JOURNALS.

AD-410 672

ABSTRACTS OF ARTICLES FROM TWO
ISSUES OF A HUNGARIAN SCIENTIFIC
AND TECHNICAL JOURNAL.

AD-410 702

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CHEMICAL RESEARCH PAPER FOR AN EAST
GERMANY JOURNAL.

AD-412 036

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ABSTRACTS IN THE FIELDS OF
ELECTRONICS ENGINEERING, AND SPACE
STUDIES.

AD-412 075

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ABSTRACTS FROM EAST EUROPEAN
SCIENTIFIC AND TECHNICAL JOURNALS.

AD-412 083

ABSTRACTS OF TRANSLATION OF
FOREIGN RESEARCH ON CHEMISTRY.

AD-412 091

TRANSLATIONS OF ABSTRACTS FROM
EAST EUROPEAN SCIENTIFIC AND
TECHNICAL JOURNALS.

AD-412 095

TRANSLATION OF FOREIGN RESEARCH;
EAST EUROPEAN SCIENTIFIC AND
TECHNICAL JOURNALS CHEMISTRY
ABSTRACTS.

AD-412 100

COMPUTERS

RESEARCH ON AUTOMATIC COMPUTER
ELECTRONICS.*

AD-420 950

ENERGY CONVERSION

BIBLIOGRAPHY COVERING CURRENT
LITERATURE ON DIRECT ENERGY
CONVERSION - INCLUDES ABSTRACTS ON
THERMOELECTRICITY, THERMIONIC
EMISSION, PHOTOELECTRIC PROCESSES,
MAGNETOHYDRODYNAMICS,
ELECTROCHEMICAL PROCESSES, ENERGY
STORAGE, AND ENERGY SOURCES.

AD-601 224

LIQUID METALS

BIBLIOGRAPHY. LIQUID METALS,
LIQUID METAL ALLOYS AND THEIR
APPLICATIONS.

AD-417 111

MATERIALS

ABSTRACTS OF RESEARCH ON METALS,
ALLOYS, NONMETALLICS AND
MISCELLANEOUS MATERIALS.

AD-407 822

MATERIALS REVIEW: HIGH
POLYMERS, PLASTIC MATERIALS
SYNTHETIC FIBERS, MISCELLANEOUS
ORGANIC AND INORGANIC MATERIALS,
METALS AND ALLOYS.

AD-474 956

METALS

DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS.*

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PERMAFROST WITH ABSTRACTS. VOLUME
XVII. *

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A COMPILATION OF ABSTRACTS AND
ARTICLES ON INSTRUMENTATION USED IN
SEARCHLIGHT TECHNIQUES.

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DEGRADATION

BIBLIOGRAPHY ON PROPERTIES AND
DEGRADATION OF POLYETHYLENE
TEREPHTHALATE AND METHYL
METHACRYLATE POLYMERS.

ACT-ALL

AD-601 282

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BIBLIOGRAPHIES

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ACTINIDES.
AD-455 165

CHEMISTRY

CHEMISTRY OF RARE EARTH AND
ACTINIDE DERIVATIVES TETRAPYRROL
PIGMENT DERIVATIVES OF RARE EARTH
ELEMENTS AND ACTINIDES: ANALYTICAL
SURVEY.
AD-629 515

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BIBLIOGRAPHY ON HIGH-TEMPERATURE
STRAIN GAGES.
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METALS

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ADHESIVES.
AD-601 299

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ELECTROSTATICS
BIBLIOGRAPHY ON ELECTROSTATIC
PHENOMENA IN AEROSOL DISSEMINATION.
AD-468 320

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ELECTROSTATICS
BIBLIOGRAPHY ON ELECTROSTATIC
PHENOMENA IN AEROSOL DISSEMINATION.
AD-468 320

SCATTERING

RESEARCH ON AEROSOL SCATTERING
IN THE INFRARED; FINAL REPORT.
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GEARS, BEARINGS AND LUBRICANTS
FOR AEROSPACE APPLICATION: AN
ANNOTATED BIBLIOGRAPHY.*
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BIBLIOGRAPHIES
ANNOTATED BIBLIOGRAPHY ON THE
AGING OF NATURAL AND SYNTHETIC
RUBBER.
AD-601 249

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BIBLIOGRAPHY ON AGING OF NATURAL
AND SYNTHETIC RUBBER AND RUBBER
PRODUCTS IN STORAGE.
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DIFFUSION

DIFFUSION BIBLIOGRAPHY.
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FUNGI

BIBLIOGRAPHY ON FOULING PROBLEMS
AND CONTROL OF MARINE FUNGI AND
ALGAE.
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CALCULATIONS (PRELIMINARY VERSION).
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ELECTRIC INSULATION
ELECTRON MOBILITY IN ALIPHATIC
HYDROCARBONS AS RELATED TO ORGANIC
INSULATION BREAKDOWN.
AD-465 159

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MERCURY ALLOYS
THE PHYSICAL AND CHEMICAL
PROPERTIES OF DILUTE ALKALI METAL
AMALGAMS, A REVIEW. PART II:
CHEMICAL PROPERTIES AND STRUCTURES.
AD-609 294

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PHYSICAL PROPERTIES
BIBLIOGRAPHY ON SELECTED
PROPERTIES OF THE NITRATES,
CHLORATES, AND BROMATES OF SODIUM,
POTASSIUM, AND RUBIDIUM.
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DISTRIBUTION
OCCURRENCE OF NORMAL PARAFFIN
HYDROCARBONS IN NATURE. TABLES AND
BIBLIOGRAPHY.*
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ABSTRACTS* MATERIALS, ABSTRACTS
ABSTRACTS OF DEFENSE METALS

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LIGHT METALS, NONMETALLICS,
REFRACTORY METALS, COMPOSITE
MATERIALS, COATINGS AND
MANUFACTURING METHODS.

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BIBLIOGRAPHY ON HIGH-STRENGTH
ALLOYS, LIGHT METALS, NONMETALLICS,
REFRACTORY METALS, COATINGS, AND
COMPOSITE MATERIALS.

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DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS.

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SEVENTEENTH MATERIALS REVIEW;
EMPHASIS IS ON THE POLYMER AND
PLASTICS FIELDS.

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GRAIN STRUCTURES (METALLURGY)

ABNORMAL GRAIN GROWTH IN
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ANNOTATED BIBLIOGRAPHY ON THE
FUSION WELDING OF ALUMINUM ALLOYS.
(1962 THROUGH JUNE 1963) 62
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BIBLIOGRAPHY RELATING TO THE
SYNTHESIS AND PHYSICAL PROPERTIES
OF ALUMINUM HYDRIDE AND CLOSELY
RELATED COMPOUNDS.*

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PHYSICAL AND CHEMICAL PROPERTIES
OF BIS(ANILINO)SILANES AND 4,4'-
DIHYDROXYBIPHENYL COMPOUNDS.

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PAPERS FROM A SYMPOSIUM ON FLUID
AMPLIFICATION.

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SCANNING

A SURVEY OF GEODESIC LENS
SCANNING ANTENNAS.*

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RELATED TO ANTENNAS.

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ELECTRICALLY SMALL ANTENNAS,
PROPAGATION THROUGH VEGETATION, AND
RELATED TOPICS.

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BIBLIOGRAPHY.

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 STRUCTURE.
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 BIBLIOGRAPHY: THE DIFFUSION OF
 HYDROGEN AND OTHER LIGHT GASES
 THROUGH MEMBRANES, POROUS MEDIA,
 AND THIN PLATES.
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 ABSTRACTS OF DEFENSE METALS
 INFORMATION CENTER SELECTED

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LIGHT METALS, NONMETALLICS,
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WETTING; SCALE REMOVAL; CARBON AND
RUST REMOVING COMPOUNDS. 462
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1963.

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DOCUMENTS AND JOURNAL ARTICLES ON
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OF THE DEFENSE METALS INFORMATION
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METHACRALATE POLYMERS.

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CHLORATES, AND BROMATES OF SODIUM,
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OF ALUMINUM HYDRIDE AND CLOSELY
RELATED COMPOUNDS.*

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AND MECHANICAL PROPERTIES OF
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INHIBITORS FOR NONFERROUS METALS.
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RESISTANCE OF ZINC AND ZINC
COATINGS UNDER CONDITIONS OF HIGH
HUMIDITY OR IN CONTACT WITH GROUND
WATERS.
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SHEATHED CABLES.
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PROPOSED SPECIFICATIONS FOR
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FIELDS 2 TO 10,000 MC, AND
ELECTROMAGNETIC FIELDS 10 KC TO 2
MC.
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SPACE RADIATION EFFECTS ON
ELECTRONIC MATERIALS.
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EMISSION, PHOTOELECTRIC PROCESSES,
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LITERATURE ABSTRACTS.

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SOURCE MATERIALS.

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EFFECTS OF FUNGI ON ELECTRIC AND
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PERFORMANCE ABOVE 1000F OF
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COATINGS.

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REINFORCED PLASTICS AND
LAMINATES FOR HOT STRUCTURES (600 F
AND ABOVE).

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DERIVATIVES. A DOC REPORT
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HAZARDS DUE TO HYDROGEN ABOARD A
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A SIMPLE AND VERSATILE PUNCH
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COATINGS.

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ALLOYS BY WELDING AND/OR BRAZING:
AN ANNOTATED BIBLIOGRAPHY.*

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A COMPILATION OF ABSTRACTS AND
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SEARCHLIGHT TECHNIQUES.

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MANUFACTURING AND HANDLING
PROCESSES FOR LIQUID HYDROGEN
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APPLICATIONS.

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SHAPING. VOLUME II. APPENDIX.*

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CENTER SELECTED ACCESSIONS.*

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ENERGETICS OF THE COMBINATION OF
A PROTON AND A HYDRIDE ION.*

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SCIENTIFIC AND TECHNICAL
LITERATURE: ORGANOSILICON AND
ORGANOMETALLIC COMPOUNDS, 1958
THROUGH MAY 1963.

AD-460 446

METALS

DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS.*

AD-422 768

DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS.*

AD-424 558

DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS.

AD-606 314

HIGH-PURITY METALS: ANNOTATED
BIBLIOGRAPHY BASED ON SOVIET AND
SOVIET-BLOC OPEN-SOURCE MATERIAL.

AD-624 997

HIGH PURITY METALS: ANNOTATED

BIBLIOGRAPHY.

AD-631 512

MICROORGANISMS

BIBLIOGRAPHY ON MICROORGANISMS
AFFECTING PETROLEUM AND PETROLEUM
PRODUCTS INCLUDING REPORTS ON
SULFATE-REDUCING BACTERIA.

AD-601 290

MINING ENGINEERING

SCIENTIFIC AND TECHNICAL
APPLICATIONS FORECAST, 1964,
EXCAVATION: ROCK EXCAVATION
UNDERGROUND.

AD-611 555

NUMERICAL ANALYSIS

NUMERICAL ANALYSIS AND RELATED
LITERATURE FOR SCIENTIFIC COMPUTER
USERS.*

AD-632 244

OCEAN WAVES

BIBLIOGRAPHY ON STORM SURGES AND
RELATED SUBJECTS.

AD-639 101

OCEANOLOGY

BIBLIOGRAPHY OF REPORTS DEALING
WITH OCEANOLOGY.

AD-612 623

BIBLIOGRAPHY OF REPORTS, 1966.*

AD-648 536

OPERATIONS RESEARCH

OPERATIONS RESEARCH
(SUPPLEMENT). A DDC REPORT
BIBLIOGRAPHY.*

AD-426 275

PAINTS

BIBLIOGRAPHY ON MICROBIOLOGICAL
DETERIORATION OF PAINT FILMS.

AD-601 288

PAVEMENTS

AN ANNOTATED BIBLIOGRAPHY AND
RESEARCH REVIEW ON THE DEVELOPMENT
OF A LONG RANGE PLAN FOR
ENGINEERING RESEARCH ON FLEXIBLE
PAVEMENTS.*

AD-648 572

PERMAFROST

BIBLIOGRAPHY ON SNOW, ICE AND
PERMAFROST WITH ABSTRACTS. VOLUME
XVII. *

AD-432 809

PEST CONTROL

BIBLIOGRAPHY ON RESISTANCE OF PLASTICS TO MICROORGANISMS, INSECTS, RODENTS AND OTHER PESTS.
AD-601 309

PLASTICS

INDEX OF TECHNICAL REPORTS AND PUBLICATIONS FROM THE PRINCETON UNIVERSITY PLASTICS LABORATORY.
AD-418 119

BIBLIOGRAPHY ON THE DEGRADATION AND TOXICITY OF POLYTETRAFLUOROETHYLENE AND POLYURETHANES.
AD-462 691

BIBLIOGRAPHY ON RESISTANCE OF PLASTICS TO MICROORGANISMS, INSECTS, RODENTS AND OTHER PESTS.
AD-601 309

SUBJECT INDEX, BIBLIOGRAPHY, AND CODE DESCRIPTION OF TECHNICAL CONFERENCE PAPERS ON PLASTICS: 28 FEB 63-1 MAR 64.
AD-606 561

PLATING

ANNOTATED BIBLIOGRAPHY ON PLATING WITH IRON AND IRON NICKEL ALLOY, 1940 THROUGH JUNE 1963.
AD-431 627

POLYESTER PLASTICS

BIBLIOGRAPHY ON PROPERTIES AND DEGRADATION OF POLYETHYLENE TEREPHTHALATE AND METHYL METHACRALATE POLYMERS.
AD-601 282

POLYMERS

LITERATURE SURVEY ON THERMAL DEGRADATION, THERMAL OXIDATION, AND THERMAL ANALYSIS OF HIGH POLYMERS.*
AD-423 546

GLASS TRANSITION TEMPERATURES OF HOMOPOLYMERS. TABLES; BIBLIOGRAPHY.
AD-476 067

POLYVINYL CHLORIDE

BIBLIOGRAPHY ON DEGRADATION OF POLY(VINYL CHLORIDE) BY SOIL MICROORGANISMS.
AD-601 285

POWER PLANTS (ESTABLISHMENTS)

ANNOTATED BIBLIOGRAPHY OF BRATSK AND KRASNOIARSK HYDROELECTRIC PROJECTS IN CENTRAL SIBERIA, USSR.*

AD-641 304

POWER SUPPLIES

AUXILIARY POWER SYSTEMS FOR SPACECRAFT. AN ANNOTATED BIBLIOGRAPHY.*
AD-423 714
APPLIED RESEARCH MANAGEMENT ABSTRACT BULLETIN: PART I, ABSTRACTS 1-1704 THROUGH 1-1752.
AD-604 746

PRESERVATION

BIBLIOGRAPHY ON PRESERVATION OF INACTIVE EQUIPMENT AND LONG-TERM STORAGE OF MATERIALS.
AD-600 642

QUEUEING THEORY

REPRINT: SEVEN MORE YEARS OF QUEUES. A LAMENT AND A BIBLIOGRAPHY.
AD-645 679

RADIATION CHEMISTRY

MONTHLY ACCESSION LIST: BIBLIOGRAPHY ON THE EFFECTS OF RADIATION ON MATERIALS, COMPONENTS, DEVICES, AND TEST FACILITIES.
AD-602 163

RARE EARTH COMPOUNDS

CHEMISTRY OF RARE EARTHS AND ACTINIDES.
AD-455 165

REFRACTORY COATINGS

PROTECTIVE COATING SYSTEMS FOR NIOBIUM IN THE RANGE 1800 2500 F.
AD-621 546

REFRACTORY MATERIALS

AN ANNOTATED BIBLIOGRAPHY EMPHASIZING PHASE RELATIONSHIPS OF MOLYBDENUM, NIOBIUM, AND TUNGSTEN BORIDES, CARBIDES, AND SILICIDES.
AD-410 526

RHEOLOGY

RHEOLOGY OF FILLED SYSTEMS.*
AD-488 382

ROCK (GEOLOGY)

BIBLIOGRAPHY OF ROCK DEFORMATION.
AD-606 550

RUBBER

ANNOTATED BIBLIOGRAPHY ON THE

AGING OF NATURAL AND SYNTHETIC RUBBER.

AD-601 249

BIBLIOGRAPHY ON AGING OF NATURAL AND SYNTHETIC RUBBER AND RUBBER PRODUCTS IN STORAGE.

AD-601 284

BIBLIOGRAPHY ON OZONE DETERIORATION OF RUBBER.

AD-601 291

SEALS (STOPPERS)

O-RINGS. A DDC REPORT

BIBLIOGRAPHY.*

AD-422 417

SEISMIC WAVES

A BIBLIOGRAPHY OF SEISMOLOGY FOR THE VELA UNIFORM PROGRAM.*

AD-422 423

SEISMOLOGY

A BIBLIOGRAPHY OF SEISMOLOGY FOR THE VELA UNIFORM PROGRAM.

AD-469 253

SERVOMECHANISMS

BIBLIOGRAPHY ON SERVOMECHANISMS.

AD-412 759

SHIP STRUCTURAL COMPONENTS

INDEX OF SHIP STRUCTURE COMMITTEE PUBLICATIONS.

AD-613 270

SOIL MECHANICS

A CRITICAL REVIEW OF THE LITERATURE ON THE DYNAMIC TESTING OF SOILS.

AD-429 964

STATISTICAL PROCESSES

SELECTED BIBLIOGRAPHY ON NON-NORMALITY.

AD-617 929

BIBLIOGRAPHY ON STATISTICAL ROBUSTNESS AND RELATED TOPICS.*

AD-631 528

STRAIN GAGES

BIBLIOGRAPHY ON HIGH-TEMPERATURE STRAIN GAGES.

AD-462 692

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STRUCTURAL STABILITY OF TOROIDAL SHELLS: AN ANNOTATED BIBLIOGRAPHY.*

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SYMPOSIA

SUBJECT INDEX, BIBLIOGRAPHY, AND CODE DESCRIPTION OF TECHNICAL CONFERENCE PAPERS ON PLASTICS: 10 FEBRUARY 1962-10 FEBRUARY 1963.*

AD-423 560

SYNTHETIC RUBBER

BIBLIOGRAPHY ON AGING OF NATURAL AND SYNTHETIC RUBBER AND RUBBER PRODUCTS IN STORAGE.

AD-601 284

TANTALUM CAPACITORS

TANTALUM CAPACITORS. A PRELIMINARY SURVEY OF THE LITERATURE.

AD-606 235

TELEMETER SYSTEMS

PCM TELEMETRY: AN ANNOTATED BIBLIOGRAPHY.*

AD-439 442

TEXTILES

BIBLIOGRAPHY ON BACTERIAL DEGRADATION OF TEXTILES AND CELLULOSE.

AD-601 280

THERMOSETTING PLASTICS

BIBLIOGRAPHY ON MICROBIAL RESISTANCE OF THERMOSETTING PLASTICS.

AD-601 278

THIN FILMS (STORAGE DEVICES)

THE STRUCTURE AND STRENGTH OF EPITAXIAL FILMS.

AD-432 364

WELDING

AN ANNOTATED BIBLIOGRAPHY: EFFECTS OF WELD POOL AGITATION ON WELD PROPERTIES; INFLUENCE OF VIBRATION ON THE SOLIDIFICATION OF METALS. 65% OF REFERENCES PUBLISHED BY THE SOVIET BLOC.

AD-409 795

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AD-431 526

WOOD

BIBLIOGRAPHY OF PUBLICATIONS ON THE CHEMISTRY OF WOOD.

AD-602 302

BIBLIOGRAPHY OF PUBLICATIONS ON
STRUCTURAL SANDWICH, PLASTIC
LAMINATES, AND WOOD-BASE
COMPONENTS.
AD-602 351

ZIRCONIUM COMPOUNDS
AN ANNOTATED BIBLIOGRAPHY OF
RESEARCH ON THE STRUCTURAL AND
PHYSICAL PROPERTIES OF ZIRCONIA.
AD-610 758

*BIOCHEMISTRY
ABSTRACTS OF TRANSLATION OF
FOREIGN RESEARCH ON CHEMISTRY.
AD-412 091

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MATHEMATICAL ANALYSIS
COLLECTED TECHNICAL PAPERS,
VOLUME 2,*
AD-420 696

*BONDING
DIFFUSION
DIFFUSION BONDING: AN ANNOTATED
BIBLIOGRAPHY,*
AD-423 723

*BORIDES
THERMAL PROPERTIES
THERMODYNAMICS OF CERTAIN
REFRACTORY COMPOUNDS. VOLUME II.
THERMODYNAMIC TABLES, BIBLIOGRAPHY,
AND PROPERTY FILE: SECTIONS VII,
VIII, IX,*
AD-647 955

*BORON
ABSTRACTING
COMPILATION OF ABSTRACTS OF
SOVIET LITERATURE ON BORON, BORON
COMPOUNDS AND BORON ALLOYS.
AD-456 764

PURIFICATION
PURIFICATION OF BORON.
ANNOTATED BIBLIOGRAPHY BASED ON
SOVIET OPEN LITERATURE.*
AD-419 989

PURIFICATION OF BORON. A
BIBLIOGRAPHY OF REFERENCES TO
SOVIET BLOC LITERATURE.
AD-460 098

PURIFICATION OF BORON: ANNOTATED
BIBLIOGRAPHY FROM SOVIET SOURCES.
AD-623 251

*BUILDINGS

ELECTROMAGNETIC SHIELDING
PROPOSED SPECIFICATIONS FOR
ELECTROMAGNETIC SHIELDING OF
ENCLOSURES AND BUILDINGS.
EFFECTIVENESS AGAINST PLANE WAVE
FIELDS 2 TO 10,000 MC, AND
ELECTROMAGNETIC FIELDS 10 KC TO 2
MC.

AD-417 699

*CADMIUM
CORROSION INHIBITION
BIBLIOGRAPHY ON CORROSION
RESISTANCE OF CADMIUM COATINGS.
AD-601 294

*CARBIDES
THERMAL PROPERTIES
THERMODYNAMICS OF CERTAIN
REFRACTORY COMPOUNDS. VOLUME II.
THERMODYNAMIC TABLES, BIBLIOGRAPHY,
AND PROPERTY FILE: SECTIONS VII,
VIII, IX,*
AD-647 955

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FIRE EXTINGUISHERS
AN ANNOTATED BIBLIOGRAPHY ON
CARBON TETRACHLORIDE AS A FIRE
EXTINGUISHANT,*
AD-650 735

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BIBLIOGRAPHIES
AN ANNOTATED BIBLIOGRAPHY:
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WELD PROPERTIES; INFLUENCE OF
VIBRATION ON THE SOLIDIFICATION OF
METALS. 65% OF REFERENCES
PUBLISHED BY THE SOVIET BLOC.
AD-409 795

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DEGRADATION
BIBLIOGRAPHY ON BACTERIAL
DEGRADATION OF TEXTILES AND
CELLULOSE.
AD-601 280

*CENTRAL AMERICA
RURAL AREAS
INVENTORY OF LATIN AMERICAN
AGRICULTURAL COLONIES.
AD-615 459

*CERAMIC MATERIALS
DUCTILITY
RELATION OF MECHANICAL
PROPERTIES TO THE STRUCTURE OF

- IONIC SOLIDS.***
AD-641 911
- MATERIAL FORMING**
CRITICAL REVIEWS OF CERAMIC
FORMING METHODS.
AD-425 552
- THERMODYNAMICS**
THERMODYNAMICS OF REFRACTORY
COMPOUNDS OF BERYLLIUM (OXIDES,
BORIDES, CARBIDES, AND NITRIDES):
AN ANNOTATED BIBLIOGRAPHY.*
AD-439 445
- *CHELATE COMPOUNDS**
REVIEWS
CHEMISTRY OF METAL-CHELONATES.
AD-601 732
- *CHEMICAL ANALYSIS**
ATOMIC SPECTROSCOPY
ATOMIC ABSORPTION SPECTROSCOPY
IN CHEMICAL ANALYSIS.
AD-606 049
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TRANSLATION OF FOREIGN RESEARCH;
ABSTRACTS FROM EAST EUROPEAN
SCIENTIFIC AND TECHNICAL JOURNALS.
AD-412 083
ABSTRACTS OF TRANSLATION OF
FOREIGN RESEARCH ON CHEMISTRY.
AD-412 091
- *CIRCUIT BREAKERS**
AIRCRAFT EQUIPMENT
TRANSLATION OF RUSSIAN RESEARCH.
ANNOTATED BIBLIOGRAPHY OF SOVIET
AIRCRAFT CIRCUIT BREAKERS.
AD-618 471
- *CIRCUITS**
BIBLIOGRAPHIES
CIRCUIT ANALYSIS AND PARAMETER
STUDIES.
AD-462 688
- DESIGN**
THE DESIGN AND ANALYSIS OF
ELECTRICAL ELECTRONIC SYSTEMS BY
MEANS OF DIGITAL COMPUTERS: AN
ANNOTATED BIBLIOGRAPHY.*
AD-439 440
- TEST METHODS**
INVESTIGATION OF SECONDARY
PHENOMENA FOR USE IN CHECKOUT OF
ELECTRONIC COMPONENTS AND
- CIRCUITORY.**
AD-431 821
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BIBLIOGRAPHIES
SCIENTIFIC AND TECHNICAL
APPLICATIONS FORECAST, 1964,
EXCAVATION: ROCK EXCAVATION
UNDERGROUND.
AD-611 555
- GEOLOGY**
SELECTED GEOLOGIC LITERATURE
LOWER MISSISSIPPI VALLEY DIVISION
AREA INDEX AND ANNOTATED
BIBLIOGRAPHY.
AD-628 983
- *CLEANING COMPOUNDS**
MATERIALS
RUST REMOVING CORROSION
PREVENTIVES - LITERATURE REPORT.C
AD-432 503
- *COATINGS**
HEAT RESISTANT METALS AND ALLOYS
PERFORMANCE ABOVE 1000F OF
SUPERALLOYS AND PROTECTIVE
COATINGS.
AD-601 295
- PROTECTIVE TREATMENTS**
PROTECTIVE COATINGS FOR
CONCRETE.
AD-602 727
- REVIEWS**
FLUIDIZED-BED COATING WITH
ORGANIC AND INORGANIC MATERIALS.
AD-456 647
- *COBALT ALLOYS**
TENSILE PROPERTIES
SHORT-TIME TENSILE PROPERTIES OF
THE CO-20CR15W-1-NI COBALT-BASE
ALLOY (L-605).*
- AD-425 922
- *COLD WEATHER TESTS**
BIBLIOGRAPHY ON SNOW, ICE AND
PERMAFROST WITH ABSTRACTS.
CUMULATIVE INDEX, VOLS. I-XVII.
AD-602 778
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DIAGNOSIS
AN ANNOTATED BIBLIOGRAPHY ON
MEDICAL DIAGNOSIS WITH ELECTRONIC
COMPUTERS.

COM-CON

AD-407 945

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GRAPHICS

BIBLIOGRAPHY: GRAPH THEORY AND
COMBINATORIAL THEORY.*
AD-653 226

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BIBLIOGRAPHIES

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COMMAND, FORT MONMOUTH, N. J.
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DATA PROCESSING SYSTEMS

A RESUME OF MATHEMATICAL
RESEARCH ON INFORMATION SYSTEMS.
AD-616 113

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LUMINESCENCE

LUMINESCENCE OF COMPLEX
MOLECULES, BIBLIOGRAPHY.
AD-609 310
TRANSLATION OF RUSSIAN RESEARCH:
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MOLECULAR STRUCTURE
INORGANIC STRUCTURE AND SPECTRA.
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BIBLIOGRAPHIES

COMPOSITE MATERIALS: AN
ANNOTATED BIBLIOGRAPHY, SUPPLEMENT
I.*
AD-408 618

GLASS TEXTILES

GLASS/RESIN INTERFACE: PATENT
SURVEY, PATENT LIST, AND GENERAL
BIBLIOGRAPHY.
AD-609 526

MECHANICAL PROPERTIES

EXPERIMENTAL DATA TO SUPPORT
EXISTING THEORIES ON THE PHYSICAL
AND MECHANICAL PROPERTIES OF
COMPOSITE MATERIALS.*
AD-488 386

REINFORCING MATERIALS

WHISKERS AND WHISKER-
STRENGTHENED COMPOSITE MATERIALS.*
AD-426 365

RHEOLOGY

RHEOLOGY OF FILLED SYSTEMS.*
AD-488 382

*COMPUTER LOGIC
NEURISTORS

RESEARCH ON COMPUTER NEURISTOR
DEVICES.
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BIBLIOGRAPHIES

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BIBLIOGRAPHY.
AD-633 103
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OF ABSTRACTS.
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TRANSLATION OF RUSSIAN RESEARCH:
COMPUTER TECHNOLOGY: COMPILATION OF
ABSTRACTS.
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COMPUTER TECHNOLOGY.
COMPILATION OF ABSTRACTS.*
AD-643 854
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ELECTRONICS.*
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MEDICINE AND THE BIOLOGICAL
SCIENCES BIBLIOGRAPHY - II,*
AD-425 439

USSR

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(SOVIET TRANSLATION).
AD-466 287

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MOISTUREPROOFING

PROTECTIVE COATINGS FOR
CONCRETE.
AD-602 727

*CONSTRUCTION

ARCTIC REGIONS
BIBLIOGRAPHY ON WINTER
CONSTRUCTION COVERING THE PERIOD

1940 TO 1963.
AD-467 420

***CONTAINERS
DEGRADATION**

PACKAGING OF ELECTRONIC
EQUIPMENT FOR TRANSPORTATION IN
VIBRATION ENVIRONMENTS WITH
EMPHASIS ON SEAGOING VEHICLES.
AD-600 530

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OPTIMIZATION**

REPRINT: ON THE STATUS OF
OPTIMAL CONTROL AND STABILITY FOR
STOCHASTIC SYSTEMS.
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ATMOSPHERIC POLLUTION
INFLUENCE OF ATMOSPHERIC
CONTAMINANTS ON CORROSION -
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JOINTS

A REVIEW OF 207 REPORTS ON
FRETTING CORROSION.
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MICROORGANISMS

BIBLIOGRAPHY ON MICROBIAL
CORROSION OF METALS.
AD-601 247

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BIBLIOGRAPHIES**

BIBLIOGRAPHY ON VAPOR PHASE
CORROSION INHIBITORS FOR NONFERROUS
AND FERROUS METALS.
AD-600 643

BIBLIOGRAPHY ON CORROSION
INHIBITORS FOR NONFERROUS METALS.
AD-601 238

BIBLIOGRAPHY ON CORROSION
RESISTANCE OF ZINC AND ZINC
COATINGS UNDER CONDITIONS OF HIGH
HUMIDITY OR IN CONTACT WITH GROUND
WATERS.

AD-601 300
SELECTED LITERATURE REFERENCES
ON CRITICAL RELATIVE HUMIDITIES FOR
CORROSION-AND FUNGUS-FREE STORAGE.

AD-601 307

MATERIALS

RUST REMOVING CORROSION
PREVENTIVES - LITERATURE REPORT.C
AD-432 503

METALS

BIBLIOGRAPHY ON VAPOR PHASE
CORROSION INHIBITORS FOR NONFERROUS
AND FERROUS METALS.

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COATINGS FOR FERROUS METALS.

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BIBLIOGRAPHIES

A CRITICAL REVIEW OF THE
LITERATURE ON THE DYNAMIC TESTING
OF SOILS.

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NIObIUM ALLOYS

CREEP OF COLUMBIUM ALLOYS,*

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LITERATURE.

AD-455 164

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USSR

TRANSLATION OF RUSSIAN RESEARCH:
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MULTIPROCESSOR OPERATING
SYSTEMS,*

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ANAEROBIC BACTERIA.
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DETERIORATION OF PAINT FILMS.
AD-601 288

MICROORGANISMS

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DETERIORATION OF HYDROCARBONS AND
RELATED DEGRADATION OF EQUIPMENT
USED FOR STORAGE, DISTRIBUTION AND
HANDLING OF PETROLEUM PRODUCTS.
AD-453 361

BIBLIOGRAPHY ON MICROORGANISMS
AFFECTING PETROLEUM AND PETROLEUM
PRODUCTS INCLUDING REPORTS ON
SULFATE-REDUCING BACTERIA.
AD-601 290

PAINTS

ACCELERATED TESTING OF PAINTS.
AD-430 910

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COMPUTERS

AN ANNOTATED BIBLIOGRAPHY ON
MEDICAL DIAGNOSIS WITH ELECTRONIC
COMPUTERS.
AD-407 945

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BIBLIOGRAPHIES

MECHANICAL DIAPHRAGMS-A SELECTED
BIBLIOGRAPHY.
AD-623 361

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PLASTICS

DIELECTRIC PROPERTIES OF
POLYMERS. A BIBLIOGRAPHY.*
AD-635 799

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HYDROCARBONS

ELECTRON MOBILITY IN ALIPHATIC
HYDROCARBONS AS RELATED TO ORGANIC
INSULATION BREAKDOWN.
AD-465 159

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BIBLIOGRAPHIES

DIFFUSION BIBLIOGRAPHY.
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BIBLIOGRAPHY: THE DIFFUSION OF
HYDROGEN AND OTHER LIGHT GASES
THROUGH MEMBRANES, POROUS MEDIA,
AND THIN PLATES.
AD-418 234

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SUBMARINES

FATAL SUBMARINE ACCIDENTS; A
BIBLIOGRAPHY, 1900-1965.*
AD-642 346

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BIBLIOGRAPHIES

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REFERENCE SOURCES FOR
OCEANOGRAPHIC STATION DATA.
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BIBLIOGRAPHIES

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BIBLIOGRAPHY OF THEORY AND
APPLICATION.
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BIBLIOGRAPHIES

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CHEMICAL PROPERTIES AND STRUCTURES.
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PROGRAMMING LANGUAGES
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BIBLIOGRAPHIES

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ENCLOSURES AND BUILDINGS.
EFFECTIVENESS AGAINST PLANE WAVE
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MC.

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ELASTOMERS FOR HIGH TEMPERATURE
APPLICATIONS.
AD-621 545

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GENERATORS

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GENERATORS: ANNOTATED
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PLASTICS AND RELATED MATERIALS.*
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BIBLIOGRAPHIES

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SHEATHED CABLES.
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BIBLIOGRAPHIES

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STORAGE ON ELECTRONIC EQUIPMENT AND
COMPONENTS.

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BIBLIOGRAPHIES

BIBLIOGRAPHY COVERING CURRENT
LITERATURE ON DIRECT ENERGY
CONVERSION-INCLUDING
THERMOELECTRICITY, THERMIONIC
EMISSION, PHOTOELECTRIC PROCESSES,
MAGNETOHYDRODYNAMICS,
ELECTROCHEMICAL PROCESSES, ENERGY
STORAGE, AND ENERGY SOURCES.
AD-430 693

FUNGUS DETERIORATION

EFFECTS OF FUNGI ON ELECTRIC AND
ELECTRONIC EQUIPMENT.

AD-601 301

*ELECTRICAL EQUIPMENT

FUNGUS DETERIORATION
EFFECTS OF FUNGI ON ELECTRIC AND
ELECTRONIC EQUIPMENT.
AD-601 301

PACKAGING

PACKAGING OF ELECTRONIC
EQUIPMENT FOR TRANSPORTATION IN
VIBRATION ENVIRONMENTS WITH
EMPHASIS ON SEAGOING VEHICLES.
AD-600 530

RADIATION EFFECTS

SPACE RADIATION EFFECTS ON
ELECTRONIC MATERIALS.

AD-601 298

*ELECTRICAL NETWORKS
SIMULATION

THE DESIGN AND ANALYSIS OF
ELECTRICAL ELECTRONIC SYSTEMS BY
MEANS OF DIGITAL COMPUTERS: AN
ANNOTATED BIBLIOGRAPHY.*
AD-439 440

TEST METHODS

INVESTIGATION OF SECONDARY
PHENOMENA FOR USE IN CHECKOUT OF
ELECTRONIC COMPONENTS AND
CIRCUITRY.

AD-431 821

*ELECTROCHEMISTRY

MERCURY ALLOYS
THE PHYSICAL AND CHEMICAL
PROPERTIES OF DILUTE ALKALI METAL

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TRANSLATION OF FOREIGN RESEARCH:
ABSTRACTS IN THE FIELDS OF
ELECTRONICS ENGINEERING, AND SPACE
STUDIES.

AD-412 075

ABSTRACTING

ABSTRACTS OF UNCLASSIFIED
TECHNICAL REPORTS ISSUED BY
STANFORD ELECTRONICS LABORATORIES
DURING 1959.

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PATENTS, 1963.*

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ELECTRONICS LABORATORIES.

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REPORTS ISSUED BY STANFORD
ELECTRONICS LABORATORIES DURING
1959.

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REPORTS ISSUED BY STANFORD
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THROUGH 1958.

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REPORTS AND TECHNICAL MEMORANDA,
JULY 1946 - JULY 1964.

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ELECTRONICS: ARMY ELECTRONICS
COMMAND, FORT MONMOUTH, N. J.

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SIMULATION

THE DESIGN AND ANALYSIS OF
ELECTRICAL ELECTRONIC SYSTEMS BY
MEANS OF DIGITAL COMPUTERS: AN
ANNOTATED BIBLIOGRAPHY.*

AD-439 440

***ELECTRONS**

NUCLEAR SCATTERING

CALCULATIONS IN ATOMIC
SCATTERING PROBLEMS AND ATOMIC
STRUCTURE.

AD-630 172

***ELECTROSTATIC GENERATORS**

BIBLIOGRAPHIES

TRANSLATION OF RUSSIAN RESEARCH:
ELECTROMAGNETIC AND ELECTROSTATIC
GENERATORS: ANNOTATED
BIBLIOGRAPHY.

AD-629 476

TRANSLATION OF RUSSIAN RESEARCH:
ELECTROSTATIC AND ELECTROMAGNETIC
GENERATORS: ANNOTATED

BIBLIOGRAPHY.

AD-633 963

***ELECTROSTATICS**

AEROSOLS

BIBLIOGRAPHY ON ELECTROSTATIC
PHENOMENA IN AEROSOL DISSEMINATION.

AD-468 320

***EMBRITTLMENT**

LIQUID METALS

LIQUID-METAL EMBRITTLMENT:
ANNOTATED BIBLIOGRAPHY COMPILED
FROM SOVIET SOURCES.

AD-637 693

***ENERGY CONVERSION**

ABSTRACTS

DIRECT ENERGY CONVERSION
LITERATURE ABSTRACTS.

AD-628 049

BIBLIOGRAPHIES

DIRECT ENERGY CONVERSION
LITERATURE ABSTRACTS.*

AD-420 421

BIBLIOGRAPHY COVERING CURRENT
LITERATURE ON DIRECT ENERGY
CONVERSION-INCLUDING
THERMOELECTRICITY, THERMIONIC
EMISSION, PHOTOELECTRIC PROCESSES,
MAGNETOHYDRODYNAMICS,
ELECTROCHEMICAL PROCESSES, ENERGY
STORAGE, AND ENERGY SOURCES.

AD-430 693

BIBLIOGRAPHY COVERING CURRENT
LITERATURE ON DIRECT ENERGY
CONVERSION - INCLUDES ABSTRACTS ON
THERMOELECTRICITY, THERMIONIC
EMISSION, PHOTOELECTRIC PROCESSES,
MAGNETOHYDRODYNAMICS,
ELECTROCHEMICAL PROCESSES, ENERGY
STORAGE, AND ENERGY SOURCES.

AD-601 224

DIRECT ENERGY CONVERSION
LITERATURE ABSTRACTS.

AD-613 358

DIRECT ENERGY CONVERSION
LITERATURE ABSTRACTS.

AD-617 132

DIRECT ENERGY CONVERSION
LITERATURE ABSTRACTS.*

AD-635 584

MATERIALS

MATERIALS FOR HIGH-TEMPERATURE
ENERGY CONVERTERS: ANNOTATED
BIBLIOGRAPHY BASED ON SOVIET OPEN-
SOURCE MATERIALS.

- AD-625 198
- *ENGINEERING
TRANSLATION OF FOREIGN RESEARCH:
ABSTRACTS IN THE FIELDS OF
ELECTRONICS ENGINEERING, AND SPACE
STUDIES.
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BIBLIOGRAPHIES
BIBLIOGRAPHY OF EXPERIMENTAL
ROCK DEFORMATION, SECOND EDITION.
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BIBLIOGRAPHY OF EXPERIMENTAL
ROCK DEFORMATION, SECOND EDITION,
PART II.*
AD-640 320
- *EPITAXIAL GROWTH
THIN FILMS (STORAGE DEVICES)
THE STRUCTURE AND STRENGTH OF
EPITAXIAL FILMS.
AD-432 344
- *ESTERS
PYROLYSIS
EFFECT OF STRUCTURAL CHANGES ON
THE PYROLYSIS OF ORGANIC ESTERS.
AD-608 632
- *EVAPORATORS
METAL FILMS
STRUCTURE AND STRENGTH OF
EPITAXIAL FILMS.
AD-609 730
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BIBLIOGRAPHIES
FERROCENE POLYMERS: AN
ANNOTATED BIBLIOGRAPHY.,*
AD-643 025
FERROCENE AND FERROCENE
DERIVATIVES.*
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BIBLIOGRAPHIES
FERROELECTRIC BIBLIOGRAPHY
SUPPLEMENT,*
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COMPOSITE MATERIALS
FIBERS FOR HIGH PERFORMANCE
COMPOSITES.*
AD-436 387
CRYSTAL GROWTH
- WHISKERS AND WHISKER-
STRENGTHENED COMPOSITE MATERIALS,*
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BIBLIOGRAPHIES
LIST OF LIBRARY ACCESSIONS IN
FIRE SAFETY LIBRARY.
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BIBLIOGRAPHIES
FIRE BIBLIOGRAPHY: SELECTED
URBAN, AND MIXED URBAN - RURAL
FIRES, 1940-1964,*
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BIBLIOGRAPHIES
FLUERICS (FLUID AMPLIFICATION).
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FLUERICS (FLUID AMPLIFICATION).
NO. 23. A BIBLIOGRAPHY.*
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BIBLIOGRAPHIES
FLUERICS (FLUID AMPLIFICATION).
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BIBLIOGRAPHIES
BIBLIOGRAPHY ON FOULING PROBLEMS
AND CONTROL OF MARINE FUNGI AND
ALGAE.
AD-601 305
BIBLIOGRAPHY ON FOULING BY
MARINE ANIMALS.
AD-601 310
- *FOUNDATIONS (STRUCTURES)
BIBLIOGRAPHIES
SELECTED BIBLIOGRAPHY OF SOIL
MECHANICS AND FOUNDATION
ENGINEERING.
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OXYGEN SOURCES FOR FUEL CELLS
(COMPRESSED GAS, LIQUID GAS,
CHEMICAL GENERATORS).
ELECTROCHEMICAL POWER FROM OXYGEN
SOURCES. BIBLIOGRAPHY.
AD-436 106
BIBLIOGRAPHIES
BIBLIOGRAPHY OF FUEL CELL
CONTRACTS 1954-1964.

FUN-GRA

AD-465 981

*FUNCTIONS

BIBLIOGRAPHIES

BIBLIOGRAPHY OF FUNCTIONAL

EQUATIONS.

AD-414 115

BIBLIOGRAPHY OF SCHLICHT

FUNCTIONS.*

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RESEARCH PROGRAM ADMINISTRATION
LIST OF REPORTS ON MEROMORPHIC

FUNCTIONS WRITTEN UNDER THIS

CONTRACT.

AD-427 526

STATISTICAL DISTRIBUTIONS

CERTAIN STUDIES ON THE STRUCTURE

AND STATISTICS OF THE LOGARITHMIC

SERIES DISTRIBUTION AND RELATED

TABLES.

AD-610 635

*FUNGI

ALGAE

BIBLIOGRAPHY ON FOULING PROBLEMS

AND CONTROL OF MARINE FUNGI AND

ALGAE.

AD-601 305

*FUNGUS DETERIORATION

STORAGE

SELECTED LITERATURE REFERENCES

ON CRITICAL RELATIVE HUMIDITIES FOR

CORROSION-AND FUNGUS-FREE STORAGE.

AD-601 307

*GAS BEARINGS

BIBLIOGRAPHIES

BIBLIOGRAPHY (WITH ABSTRACTS) ON

GAS-LUBRICATED BEARINGS.

AD-624 288

*GASES

DIFFUSION

BIBLIOGRAPHY: THE DIFFUSION OF

HYDROGEN AND OTHER LIGHT GASES

THROUGH MEMBRANES, POROUS MEDIA,

AND THIN PLATES.

AD-418 234

HIGH-TEMPERATURE RESEARCH

TRANSLATION OF RUSSIAN RESEARCH:

METHODS OF HIGHTEMPERATURE

MEASUREMENT OF GASES: COMPILATION

OF ABSTRACTS.

AD-618 532

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AEROSPACE CRAFT

GEARS, BEARINGS AND LUBRICANTS

FOR AEROSPACE APPLICATION: AN

ANNOTATED BIBLIOGRAPHY.*

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BIBLIOGRAPHIES

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GENERATORS: ANNOTATED

BIBLIOGRAPHY.

AD-629 476

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ELECTROSTATIC AND ELECTROMAGNETIC

GENERATORS: ANNOTATED

BIBLIOGRAPHY.

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OF THE HUMID TROPIC ENVIRONMENT.

VOLUME I. KWIC INDEX. HUMID

TROPIC ENVIRONMENTAL LITERATURE.

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BIBLIOGRAPHIES

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LOWER MISSISSIPPI VALLEY DIVISION

AREA INDEX AND ANNOTATED

BIBLIOGRAPHY.

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REVIEWS

ABSTRACTS FROM THE SOVIET-BLOC

LITERATURE: ORGANOSILICON AND

ORGANOGERMANIUM CHEMISTRY.

AD-635 221

*GLASS TEXTILES

LAMINATED PLASTICS

GLASS/RESIN INTERFACE: PATENT

SURVEY, PATENT LIST, AND GENERAL

BIBLIOGRAPHY.

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COMBINATORIAL ANALYSIS

BIBLIOGRAPHY: GRAPH THEORY AND

COMBINATORIAL THEORY.*

AD-653 226

*GRAPHITE

SPECIFIC HEAT

SURVEY OF EXPERIMENTAL VALUES OF

- THE SPECIFIC HEAT OF GRAPHITE FROM 20 TO 3800 DEGREES K, REANALYSIS OF EXPERIMENTAL DATA; APPROXIMATION OF LATTICE SPECIFIC HEATS BY EINSTEIN AND ONE-AND TWO-DIMENSIONAL DEBYE FUNCTIONS.
AD-427 316
- *GRAVITY
BIBLIOGRAPHIES
SOURCES OF GRAVITY DATA AT THE U. S. NAVAL OCEANOGRAPHIC OFFICE.
AD-431 645
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GUIDED MISSILES
SOVIET LITERATURE ON PROTECTIVE STRUCTURES AND COMPONENTS -- MISSILE GROUND SUPPORT.
AD-408 352
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BIBLIOGRAPHIES
A BIBLIOGRAPHY ON POLYTETRAFLUORO ETHYLENE (TEFLON) PLASTICS.*
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BIBLIOGRAPHIES
BIBLIOGRAPHY ON THE DEGRADATION AND TOXICITY OF POLYTETRAFLUOROETHYLENE AND POLYURETHANES.
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STATISTICAL DISTRIBUTIONS
HANDBOOK OF STATISTICAL CLASSIFICATION TECHNIQUES.
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BIBLIOGRAPHIES
PERFORMANCE ABOVE 1000F OF SUPERALLOYS AND PROTECTIVE COATINGS.
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DESIGN
HIGH TEMPERATURE X-RAY DIFFRACTOMETER SPECIMEN HOLDERFURNACE.
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THERMIONIC CONVERTERS
TRANSLATION OF RUSSIAN RESEARCH:
- MATERIALS FOR HIGH-TEMPERATURE ENERGY CONVERTERS: ANNOTATED BIBLIOGRAPHY.
AD-631 272
- *HEAT-RESISTANT PLASTICS
BIBLIOGRAPHIES
REINFORCED PLASTICS AND LAMINATES FOR HOT STRUCTURES (600 F AND ABOVE).
AD-621 547
- *HELIUM
ATOMIC ENERGY LEVELS
DEEXCITATION OF HELIUM ATOMS IN THE METASTABLE TRIPLET STATE IN PURE HE; APPLICATION OF THE HE MAGNETOMETER.
AD-609 832
- *HUMIDITY
STORAGE
SELECTED LITERATURE REFERENCES ON CRITICAL RELATIVE HUMIDITIES FOR CORROSION-AND FUNGUS-FREE STORAGE.
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- TROPICAL REGIONS
INVENTORY OF GEOGRAPHIC RESEARCH OF THE HUMID TROPIC ENVIRONMENT. VOLUME I. KWIC INDEX. HUMID TROPIC ENVIRONMENTAL LITERATURE.
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SYMPOSIA
PAPERS FROM A SYMPOSIUM ON FLUID AMPLIFICATION.
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BIBLIOGRAPHIES
HYDRAZINE AND HYDRAZINE DERIVATIVES. A DDC REPORT BIBLIOGRAPHY.*
AD-424 722
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BIBLIOGRAPHIES
HYDRAZINE AND HYDRAZINE DERIVATIVES. A DDC REPORT BIBLIOGRAPHY.*
AD-424 722
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ALUMINUM COMPOUNDS
UNCLASSIFIED ANNOTATED BIBLIOGRAPHY RELATING TO THE SYNTHESIS AND PHYSICAL PROPERTIES

HYD-1RO

OF ALUMINUM HYDRIDE AND CLOSELY RELATED COMPOUNDS.*
AD-439 243

CHEMICAL REACTIONS
ENERGETICS OF THE COMBINATION OF A PROTON AND A HYDRIDE ION.*
AD-423 117

•HYDROCARBONS
DEGRADATION

BIBLIOGRAPHY ON MICROBIOLOGICAL DETERIORATION OF HYDROCARBONS AND RELATED DEGRADATION OF EQUIPMENT USED FOR STORAGE, DISTRIBUTION AND HANDLING OF PETROLEUM PRODUCTS.
AD-453 361

DISTRIBUTION

OCCURRENCE OF NORMAL PARAFFIN HYDROCARBONS IN NATURE. TABLES AND BIBLIOGRAPHY.*
AD-635 898

ELECTRIC INSULATION

ELECTRON MOBILITY IN ALIPHATIC HYDROCARBONS AS RELATED TO ORGANIC INSULATION BREAKDOWN.
AD-465 159

•HYDROGEN

BIBLIOGRAPHIES

HAZARDS DUE TO HYDROGEN ABOARD A SPACE VEHICLE.
AD-454 478

DIFFUSION

BIBLIOGRAPHY: THE DIFFUSION OF HYDROGEN AND OTHER LIGHT GASES THROUGH MEMBRANES, POROUS MEDIA, AND THIN PLATES.
AD-418 234

LIQUEFIED GASES

MANUFACTURING AND HANDLING PROCESSES FOR LIQUID HYDROGEN PRODUCTION; REPORT INCLUDES AN ANNOTATED BIBLIOGRAPHY OF 443 REFERENCES FROM 1958 TO 1963.
AD-431 830

•ICE

BIBLIOGRAPHIES

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AD-432 809

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AD-602 778

BIBLIOGRAPHY ON SNOW, ICE AND PERMAFROST WITH ABSTRACTS. VOLUME XIX.

AD-621 041

BIBLIOGRAPHY ON SNOW ICE AND FROZEN GROUND WITH ABSTRACTS. VOLUME XX.*

AD-641 116

•INDEXES

PLASTICS

INDEX OF TECHNICAL REPORTS AND PUBLICATIONS FROM THE PRINCETON UNIVERSITY PLASTICS LABORATORY.
AD-418 119

SYMPOSIA

SUBJECT INDEX, BIBLIOGRAPHY, AND CODE DESCRIPTION OF TECHNICAL CONFERENCE PAPERS ON PLASTICS: 10 FEBRUARY 1962-10 FEBRUARY 1963.*
AD-423 560

•INDIAN OCEAN

OCEANOGRAPHIC DATA

BIBLIOGRAPHY ON PHYSICAL OCEANOGRAPHY OF THE INDIAN OCEAN.
AD-624 466

•INFRARED RADIATION

SCATTERING

RESEARCH ON AEROSOL SCATTERING IN THE INFRARED; FINAL REPORT.
AD-414 384

•INORGANIC COMPOUNDS

MOLECULAR STRUCTURE

INORGANIC STRUCTURE AND SPECTRA.
AD-618 041

•INTEGRATED CIRCUIT

FILMS

COMPATIBLE ACTIVE THIN-FILM INTEGRATED STRUCTURES.*
AD-425 795

•IRON

PLATING

ANNOTATED BIBLIOGRAPHY ON PLATING WITH IRON AND IRON NICKEL

ALLOY, 1940 THROUGH JUNE 1963.
AD-431 627

PROTECTIVE TREATMENTS
BIBLIOGRAPHY ON SPRAYED METALLIC
COATINGS FOR FERROUS METALS.
AD-601 304

*IRON ALLOYS
THIN FILMS (STORAGE DEVICES)
EFFECTS OF GAS OCCLUSIONS AND
STRAINS ON THE MAGNETIC PROPERTIES
OF THIN PERMALLOY FILMS.
AD-471 647

*ISOCYANATE PLASTICS
BIBLIOGRAPHIES
BIBLIOGRAPHY ON THE DEGRADATION
AND TOXICITY OF
POLYTETRAFLUOROETHYLENE AND
POLYURETHANES.
AD-462 691

BIBLIOGRAPHY ON THE USE AND
PERFORMANCE OF POLYURETHANE
COATINGS.
AD-601 279

PLASTIC COATINGS
BIBLIOGRAPHY ON THE USE AND
PERFORMANCE OF POLYURETHANE
COATINGS.
AD-601 279

*JOINING
BIBLIOGRAPHIES
JOINING OF BERYLLIUM AND ITS
ALLOYS BY WELDING AND/OR BRAZING:
AN ANNOTATED BIBLIOGRAPHY.*
AD-436 023

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BIBLIOGRAPHIES
BIBLIOGRAPHY OF PUBLICATIONS ON
STRUCTURAL SANDWICH, PLASTIC
LAMINATES, AND WOOD-BASE
COMPONENTS.
AD-602 351

GLASS TEXTILES
GLASS/RESIN INTERFACE: PATENT
SURVEY, PATENT LIST, AND GENERAL
BIBLIOGRAPHY.
AD-609 526

*LANGUAGE
BIBLIOGRAPHIES
COMPUTATIONAL LINGUISTICS:
BIBLIOGRAPHY, 1964.
AD-613 311

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SOCIAL SCIENCES
LATIN AMERICA: ANNOTATED
BIBLIOGRAPHY ON GEOGRAPHY,
INCLUDING ECONOMIC AND POLITICAL.
AD-639 695

*LENS ANTENNAS
ANTENNA CONFIGURATIONS
A SURVEY OF GEODESIC LENS
SCANNING ANTENNAS.*
AD-424 354

*LIQUEFIED GASES
HYDROGEN
MANUFACTURING AND HANDLING
PROCESSES FOR LIQUID HYDROGEN
PRODUCTION; REPORT INCLUDES AN
ANNOTATED BIBLIOGRAPHY OF 443
REFERENCES FROM 1958 TO 1963.
AD-431 830

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AMPLIFIERS
PAPERS FROM A SYMPOSIUM ON FLUID
AMPLIFICATION.
AD-601 501

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BIBLIOGRAPHIES
BIBLIOGRAPHY. LIQUID METALS,
LIQUID METAL ALLOYS AND THEIR
APPLICATIONS.
AD-417 111
TRANSLATION OF RUSSIAN RESEARCH:
LIQUID STATE OF METALS.
AD-626 598

EMBRITTEMENT
LIQUID-METAL EMBRITTEMENT:
ANNOTATED BIBLIOGRAPHY COMPILED
FROM SOVIET SOURCES.
AD-637 693

*LOOP ANTENNAS
VERY LOW FREQUENCY
AN OPTIMIZED ULTRA LOW FREQUENCY
SHIELDED-LOOP ANTENNA.*
AD-420 470

*LUBRICANTS
AEROSPACE CRAFT
GEARS, BEARINGS AND LUBRICANTS
FOR AEROSPACE APPLICATION: AN
ANNOTATED BIBLIOGRAPHY.*
AD-441 583

RHEOLOGY
TRANSLATION OF RUSSIAN

LUM-MAT

- LITERATURE: ELASTO-RHEOLOGICAL PROBLEMS CONCERNING THE LUBRICATION OF ROTATING CYLINDERS.
AD-650 806
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COMPLEX COMPOUNDS
TRANSLATION OF RUSSIAN RESEARCH: LUMINESCENCE OF COMPLEX MOLECULES: ANALYTICAL SURVEY.
AD-629 768
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REPRINT: ENERGY TRANSFER IN POLYACENE SOLID SOLUTIONS. BIBLIOGRAPHY FOR 1963.
AD-618 157
- *MAGNETOMETERS
HELIUM
DEEXCITATION OF HELIUM ATOMS IN THE METASTABLE TRIPLET STATE IN PURE HE: APPLICATION OF THE HE MAGNETOMETER.
AD-609 832
- *MANUFACTURING METHODS
PLASTIC COATINGS
FLUIDIZED-BED COATING WITH PLASTICS: TECHNOLOGY AND POTENTIAL FOR MILITARY APPLICATIONS. *
AD-431 603
- *MARINE BIOLOGY
BIBLIOGRAPHY ON FOULING BY MARINE ANIMALS.
AD-601 310
- MIDWAY
ATOLL RESEARCH BULLETIN, NOS. 109-112.
AD-617 713
- *MATERIALS
ABSTRACTS
ABSTRACTS OF RESEARCH ON METALS, ALLOYS, NONMETALLICS AND MISCELLANEOUS MATERIALS.
AD-407 822
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BIBLIOGRAPHIES
CHEMICAL COMPOUNDS FOR METAL SHAPING. VOLUME II. APPENDIX.*
AD-423 071
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CRITICAL REVIEWS OF CERAMIC FORMING METHODS.
AD-425 552
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BIBLIOGRAPHIES
CHEMICAL COMPOUNDS FOR METAL SHAPING. VOLUME II. APPENDIX.*
AD-423 071
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ABSTRACTS
CURRENT LISTING OF SELECTED DOCUMENTS AND JOURNAL ARTICLES ON SUBJECTS WITHIN THE TECHNICAL SCOPE OF THE DEFENSE METALS INFORMATION CENTER.
AD-410 839
MATERIALS REVIEW: HIGH POLYMERS, PLASTIC MATERIALS SYNTHETIC FIBERS, MISCELLANEOUS ORGANIC AND INORGANIC MATERIALS, METALS AND ALLOYS.
AD-474 956
- BIBLIOGRAPHIES
DEFENSE METALS INFORMATION CENTER SELECTED ACCESSIONS.*
AD-420 035
ANNOTATED BIBLIOGRAPHY OF SELECTED ACCESSIONS OF DMIC ON METAL AND NONMETAL MATERIALS.
AD-426 132
APPLIED RESEARCH MANAGEMENT ABSTRACT BULLETIN: PART I, ABSTRACTS 1-1704 THROUGH 1-1752.
AD-604 746
DEFENSE METALS INFORMATION CENTER SELECTED ACCESSIONS.
AD-616 389
- CONCRETE
ANNOTATED BIBLIOGRAPHY CONCERNING AGGREGATES 1940-1950.
AD-627 047
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MATERIALS FOR HIGH-TEMPERATURE ENERGY CONVERTERS: ANNOTATED BIBLIOGRAPHY BASED ON SOVIET OPEN-SOURCE MATERIALS.
AD-625 198
- PRESERVATION
BIBLIOGRAPHY ON PRESERVATION OF INACTIVE EQUIPMENT AND LONG-TERM STORAGE OF MATERIALS.
AD-600 642
- REVIEWS
SEVENTEENTH MATERIALS REVIEW

EMPHASIS IS ON THE POLYMER AND PLASTICS FIELDS.

AD-463 90

MATERIALS REVIEW: HIGH POLYMERS, PLASTIC MATERIALS SYNTHETIC FIBERS, MISCELLANEOUS ORGANIC AND INORGANIC MATERIALS, METALS AND ALLOYS.

AD-474 956

CRDL MATERIALS REVIEW.

AD-605 214

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BRAIN

COLLECTED TECHNICAL PAPERS,

VOLUME 2,*

AD-420 696

COMMUNICATION THEORY

A RESUME OF MATHEMATICAL

RESEARCH ON INFORMATION SYSTEMS.

AD-616 113

*MATHEMATICS

ANTENNAS

TRANSLATION OF RUSSIAN RESEARCH:

MATHEMATICS OF ANTENNAS: ANNOTATED

BIBLIOGRAPHY.

AD-634 090

RESEARCH PROGRAM ADMINISTRATION

FINAL REPORT ON RESEARCH PROJECT

IN FUNCTION SPACES AND ALGEBRAS ON

GROUPS INCLUDING BIBLIOGRAPHY OF

NOTES AND PUBLICATIONS.

AD-416 525

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EXPERIMENTAL DESIGN

OPTIMUM MECHANICAL DESIGN

SYNTHESIS: BIBLIOGRAPHY.

AD-637 595

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COMPUTERS

COMPUTER APPLICATIONS IN

MEDICINE AND THE BIOLOGICAL

SCIENCES BIBLIOGRAPHY - II,*

AD-425 439

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THE PHYSICAL AND CHEMICAL

PROPERTIES OF DILUTE ALKALI METAL

AMALGAMS: A REVIEW. PART II:

CHEMICAL PROPERTIES AND STRUCTURES.

AD-609 294

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BIBLIOGRAPHIES

BIBLIOGRAPHY ON CORROSION

RESISTANCE OF CADMIUM COATINGS.

AD-601 294

SPRAYS

BIBLIOGRAPHY ON SPRAYED METALLIC

COATINGS FOR FERROUS METALS.

AD-601 304

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BIBLIOGRAPHIES

NICKEL-IRON PERMALLOY FILMS: AN

ANNOTATED BIBLIOGRAPHY,*

AD-439 443

VAPOR PLATING

STRUCTURE AND STRENGTH OF

EPITAXIAL FILMS.

AD-609 730

*METAL JOINTS

COBALT ALLOYS

SHORT-TIME TENSILE PROPERTIES OF

THE CO-20CR15W-1-NI COBALT-BASE

ALLOY (L-605),*

AD-425 922

CORROSION

A REVIEW OF 207 REPORTS ON

FRETTING CORROSION.

AD-430 908

*METALLURGY

BIBLIOGRAPHIES

DEFENSE METALS INFORMATION

CENTER SELECTED ACCESSIONS.

AD-616 389

*METALORGANIC COMPOUNDS

LITERATURE SURVEY ON PREPARATION

OF METALS FROM ORGANOMETALLIC

COMPOUNDS. TRANSITION AND RARE

EARTH METALS WITH THERMAL OR

CHEMICAL METHODS OF RECOVERY.

AD-405 564

BIBLIOGRAPHIES

ANNOTATED BIBLIOGRAPHY OF

SOVIETBLOC LITERATURE ON

METALORGANIC COMPOUNDS.

AD-456 761

SURVEYS OF SOVIET-BLOC

SCIENTIFIC AND TECHNICAL

LITERATURE: ORGANOSILICON AND

ORGANOMETALLIC COMPOUNDS, 1958

THROUGH MAY 1963.

AD-460 446

MET-NET

CHEMICAL REACTIONS
ENERGETICS OF THE COMBINATION OF
A PROTON AND A HYDRIDE ION.*
AD-423 117

REVIEWS
ABSTRACTS FROM THE SOVIET-BLOC
LITERATURE: ORGANOSILICON AND
ORGANOGERMANIUM CHEMISTRY.
AD-635 221

*METALS
ABSTRACTS
ABSTRACTS OF DEFENSE METALS
INFORMATION CENTER SELECTED
ACCESSIONS: HIGH STRENGTH ALLOYS,
LIGHT METALS, NONMETALLICS,
REFRACTORY METALS, COMPOSITE
MATERIALS, COATINGS AND
MANUFACTURING METHODS.

AD-412 836
DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS.*
AD-424 558
DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS.*
AD-433 095

BIBLIOGRAPHICS
DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS.*
AD-422 768

BIBLIOGRAPHIES
BIBLIOGRAPHY ON HIGH-STRENGTH
ALLOYS, LIGHT METALS, NONMETALLICS,
REFRACTORY METALS, COATINGS, AND
COMPOSITE MATERIALS.

AD-602 397
DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS.
AD-606 314
DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS.
AD-606 824
DEFENSE METALS INFORMATION
CENTER SELECTED ACCESSIONS.
AD-616 389

CORROSION
BIBLIOGRAPHY ON MICROBIAL
CORROSION OF METALS.
AD-601 247

PURIFICATION
HIGH-PURITY METALS: ANNOTATED
BIBLIOGRAPHY BASED ON SOVIET AND
SOVIET-BLOC OPEN-SOURCE MATERIAL.
AD-624 997

HIGH PURITY METALS: ANNOTATED
BIBLIOGRAPHY.
AD-631 512

*METEOROLOGY
BIBLIOGRAPHIES
ELECTRONICS: ARMY ELECTRONICS
COMMAND, FORT MONMOUTH, N. J.
AD-633 775

*MICA
CRYSTAL STRUCTURE
RELATION OF MECHANICAL
PROPERTIES TO THE STRUCTURE OF
IONIC SOLIDS.*
AD-641 911

*MICROORGANISMS
BIBLIOGRAPHIES
BIBLIOGRAPHY ON MICROORGANISMS
AFFECTING PETROLEUM AND PETROLEUM
PRODUCTS INCLUDING REPORTS ON
SULFATE-REDUCING BACTERIA.
AD-601 290

DEGRADATION
BIBLIOGRAPHY ON DEGRADATION OF
POLY(VINYL CHLORIDE) BY SOIL
MICROORGANISMS.
AD-601 285

PLASTICS
BIBLIOGRAPHY ON RESISTANCE OF
PLASTICS TO MICROORGANISMS,
INSECTS, RODENTS AND OTHER PESTS.
AD-601 309

*MINING ENGINEERING
BIBLIOGRAPHIES
SCIENTIFIC AND TECHNICAL
APPLICATIONS FORECAST, 1964,
EXCAVATION: ROCK EXCAVATION
UNDERGROUND.
AD-611 555

*MOLECULAR STRUCTURE
INORGANIC COMPOUNDS
INORGANIC STRUCTURE AND SPECTRA.
AD-618 041

*MULTIPLE OPERATION
COMPUTERS
MULTIPROCESSOR OPERATING
SYSTEMS.*
AD-651 707

*NETWORKS
MATHEMATICAL MODELS
COLLECTED TECHNICAL PAPERS,

VOLUME 2,*
AD-420 696

*NEURISTORS
COMPUTER LOGIC

RESEARCH ON COMPUTER NEURISTOR
DEVICES.
AD-610 095

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THIN FILMS(STORAGE DEVICES)
EFFECTS OF GAS OCCLUSIONS AND
STRAINS ON THE MAGNETIC PROPERTIES
OF THIN PERMALLOY FILMS.
AD-471 647

*NIOBIUM

REFRACTORY COATINGS
PROTECTIVE COATING SYSTEMS FOR
NIOBIUM IN THE RANGE 1800 2500 F.
AD-621 546

*NIOBIUM ALLOYS

CREEP
CREEP OF COLUMBIUM ALLOYS,*
AD-424 097

*NITRIDES

THERMAL PROPERTIES
THERMODYNAMICS OF CERTAIN
REFRACTORY COMPOUNDS. VOLUME II.
THERMODYNAMIC TABLES, BIBLIOGRAPHY,
AND PROPERTY FILE: SECTIONS VII,
VIII, IX,*
AD-647 955

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ULTRASONIC RADIATION
REPORT GUIDE TO ULTRASONIC
TESTING LITERATURE. VOLUME I.
AD-630 652

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ATOMS
CALCULATIONS IN ATOMIC
SCATTERING PROBLEMS AND ATOMIC
STRUCTURE.
AD-630 172

*NUCLEATE BOILING

REVIEWS
NUCLEATE BOILING. A LITERATURE
SURVEY OF UNCLASSIFIED REPORTS.
AD-607 632

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BIBLIOGRAPHIES
NUMERICAL ANALYSIS AND RELATED
LITERATURE FOR SCIENTIFIC COMPUTER

USERS.*
AD-632 244

*OCEAN WAVES
REVIEWS

INTERNAL WAVES IN THE SEA AND
THEIR AFFECT ON THE PROPAGATION OF
UNDERWATER SOUND: REVIEW OF THE
LITERATURE.
AD-621 982

STORMS

BIBLIOGRAPHY ON STORM SURGES AND
RELATED SUBJECTS.
AD-639 101

*OCEANOGRAPHIC DATA

BIBLIOGRAPHIES
REFERENCE SOURCES FOR
OCEANOGRAPHIC STATION DATA.

AD-618 941
REFLECTION AND SCATTERING OF
SOUND BY THE OCEAN BOUNDARIES: A
BIBLIOGRAPHY,*
AD-654 716

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BIBLIOGRAPHIES
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BIBLIOGRAPHY OF REPORTS 1963.
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BIBLIOGRAPHY OF REPORTS DEALING
WITH OCEANOLOGY.
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PHYSICAL EFFECTS ON THE OCEAN
SURFACE.
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BIBLIOGRAPHY OF OCEANOGRAPHICAL
REPORTS.
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BIBLIOGRAPHY OF REPORTS, 1966,*
AD-648 536

INDIAN OCEAN

BIBLIOGRAPHY ON PHYSICAL
OCEANOGRAPHY OF THE INDIAN OCEAN.
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BIBLIOGRAPHIES
OPERATIONS RESEARCH
(SUPPLEMENT). A DDC REPORT
BIBLIOGRAPHY.*
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DIVISION EXTERNAL PUBLICATIONS 1961-

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CONTROL**

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OPTIMAL CONTROL AND STABILITY FOR
STOCHASTIC SYSTEMS.

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ABSTRACTS OF TRANSLATION OF
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STRUCTURE OF ORGANIC CRYSTALS.
ANNOTATED BIBLIOGRAPHY FOR 1960-
1962. SURVEYS OF SOVIET-BLOC
SCIENTIFIC AND TECHNICAL
LITERATURE.

AD-455 164

***OXIDES**

THERMAL PROPERTIES

THERMODYNAMICS OF CERTAIN
REFRACTORY COMPOUNDS. VOLUME II.
THERMODYNAMIC TABLES, BIBLIOGRAPHY,
AND PROPERTY FILE: SECTIONS VII,
VIII, IX,*

AD-647 955

***OZONE**

BIBLIOGRAPHY ON OZONE
DETERIORATION OF RUBBER.

AD-601 291

BIBLIOGRAPHIES

OZONE PREPARATION AND STABILITY
IN HIGH CONCENTRATIONS. VOLUME 2.
BIBLIOGRAPHY.*

AD-639 200

***PACKAGING**

ELECTRONIC EQUIPMENT

ELECTRONIC PACKAGING: A
BIBLIOGRAPHY.*

AD-634 004

***PAINTS**

DEGRADATION

BIBLIOGRAPHY ON MICROBIOLOGICAL
DETERIORATION OF PAINT FILMS.

AD-601 288

PERFORMANCE (ENGINEERING)

ACCELERATED TESTING OF PAINTS.

AD-430 910

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GLASS TEXTILES

GLASS/RESIN INTERFACE: PATENT
SURVEY, PATENT LIST, AND GENERAL
BIBLIOGRAPHY.

AD-609 526

***PAVEMENTS**

MECHANICAL PROPERTIES

AN ANNOTATED BIBLIOGRAPHY AND
RESEARCH REVIEW ON THE DEVELOPMENT
OF A LONG RANGE PLAN FOR
ENGINEERING RESEARCH ON FLEXIBLE
PAVEMENTS.*

AD-648 572

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BIBLIOGRAPHIES

ACCELERATED TESTING OF PAINTS.

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BIBLIOGRAPHIES

BIBLIOGRAPHY ON SNOW, ICE AND
PERMAFROST WITH ABSTRACTS. VOLUME
XVII. *

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PERMAFROST WITH ABSTRACTS.
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PERMAFROST WITH ABSTRACTS. VOLUME
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FROZEN GROUND WITH ABSTRACTS.
VOLUME XX.*

AD-641 116

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MICROBIOLOGY

BIBLIOGRAPHY ON MICROORGANISMS
AFFECTING PETROLEUM AND PETROLEUM
PRODUCTS INCLUDING REPORTS ON
SULFATE-REDUCING BACTERIA.

AD-601 290

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ABSTRACTS OF TRANSLATION OF
FOREIGN RESEARCH ON CHEMISTRY.

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BIBLIOGRAPHIES

CROSSLINKING, THERMAL AND
MECHANICAL PROPERTIES OF
THERMOPLASTIC AND PHENOLIC RESIN
SYSTEMS; A BIBLIOGRAPHY.*

AD-634 234

PHENOLS*POLYCYCLIC COMPOUNDS**

PHYSICAL AND CHEMICAL PROPERTIES
OF BIS(ANILINO)SILANES AND 4,4'-
DIHYDROXYBIPHENYL COMPOUNDS.

AD-456 734

PIGMENTS*RARE EARTH COMPOUNDS**

CHEMISTRY OF RARE EARTH AND
ACTINIDE DERIVATIVES TETRAPYRROL
PIGMENT DERIVATIVES OF RARE EARTH
ELEMENTS AND ACTINIDES: ANALYTICAL
SURVEY.

AD-629 515

PIPES*MATERIAL FORMING**

DEVELOPMENT OF PROCESSING
TECHNIQUES FOR THE PRODUCTION OF
DEFECT-FREE, FABRICABLE AND
WELDABLE TANTALUM ALLOY TUBING WITH
IMPROVED HIGH STRENGTH AND
CORROSION RESISTANCE.

AD-427 992

PLANTS(BOTANY)*MIDWAY**

ATOLL RESEARCH BULLETIN, NOS.

109-112.

AD-617 713

PLASTIC COATINGS*ISOCYANATE PLASTICS**

BIBLIOGRAPHY ON THE USE AND
PERFORMANCE OF POLYURETHANE
COATINGS.

AD-601 279

MANUFACTURING METHODS

FLUIDIZED-BED COATING WITH
PLASTICS; TECHNOLOGY AND POTENTIAL
FOR MILITARY APPLICATIONS, *

AD-431 603

STATE-OF-THE-ART REVIEWS

MILITARY APPLICATIONS OF
PLASTICS AND RELATED MATERIALS, *

AD-653 837

PLASTICS*BIBLIOGRAPHIES**

INDEX OF TECHNICAL REPORTS AND
PUBLICATIONS FROM THE PRINCETON
UNIVERSITY PLASTICS LABORATORY.

AD-418 119

SUBJECT INDEX, BIBLIOGRAPHY, AND

CODE DESCRIPTION OF TECHNICAL
CONFERENCE PAPERS ON PLASTICS: 5
MARCH 1965 - 10 MARCH 1966, *
AD-641 666

DEGRADATION

BIBLIOGRAPHY ON RESISTANCE OF
PLASTICS TO MICROORGANISMS,
INSECTS, RODENTS AND OTHER PESTS.
AD-601 309

DIELECTRIC PROPERTIES

DIELECTRIC PROPERTIES OF
POLYMERS. A BIBLIOGRAPHY.*
AD-635 799

REPORTS

SUBJECT INDEX, BIBLIOGRAPHY, AND
CODE DESCRIPTION OF TECHNICAL
CONFERENCE PAPERS ON PLASTICS: 28
FEB 63-1 MAR 64.
AD-606 561

SUBJECT INDEX, BIBLIOGRAPHY, AND
CODE DESCRIPTION OF TECHNICAL
CONFERENCE PAPERS ON PLASTICS: 2
MARCH 1964-5 MARCH 1965.
AD-620 142

REVIEWS

SEVENTEENTH MATERIALS REVIEW;
EMPHASIS IS ON THE POLYMER AND
PLASTICS FIELDS.
AD-463 490

CRDL MATERIALS REVIEW.
AD-605 214

STATE-OF-THE-ART REVIEWS

MILITARY APPLICATIONS OF
PLASTICS AND RELATED MATERIALS, *
AD-653 837

SYMPOCSIA

SUBJECT INDEX, BIBLIOGRAPHY, AND
CODE DESCRIPTION OF TECHNICAL
CONFERENCE PAPERS ON PLASTICS: 10
FEBRUARY 1962-10 FEBRUARY 1963, *
AD-423 560

PLATING*BIBLIOGRAPHIES**

ANNOTATED BIBLIOGRAPHY ON
PLATING WITH IRON AND IRON NICKEL
ALLOY, 1940 THROUGH JUNE 1963.
AD-431 627

POLYCYCLIC COMPOUNDS*LUMINESCENCE**

REPRINT: ENERGY TRANSFER IN
POLYACENE SOLID SOLUTIONS.

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AD-618 157

PHENOLS

PHYSICAL AND CHEMICAL PROPERTIES
OF BIS(ANILINO)SILANES AND 4,4'-
DIHYDROXYBIPHENYL COMPOUNDS.
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***POLYESTER PLASTICS
DEGRADATION**

BIBLIOGRAPHY ON PROPERTIES AND
DEGRADATION OF POLYETHYLENE
TEREPHTHALATE AND METHYL
METHACRYLATE POLYMERS.
AD-601 282

***POLYETHYLENE PLASTICS
ELECTRIC INSULATION**

BIBLIOGRAPHY ON POLYETHYLENE
SHEATHED CABLES.
AD-601 286

***POLYMERIZATION**

RADIATION CHEMISTRY
RADIATION POLYMERIZATION STUDIES
AT LOW TEMPERATURES.
AD-613 529

***POLYMERS**

BIBLIOGRAPHIES
LITERATURE SURVEY ON THERMAL
DEGRADATION, THERMAL OXIDATION, AND
THERMAL ANALYSIS OF HIGH POLYMERS.*
AD-423 546

FERROCENES

FERROCENE POLYMERS: AN
ANNOTATED BIBLIOGRAPHY.*
AD-643 025

REVIEWS

SEVENTEENTH MATERIALS REVIEW;
EMPHASIS IS ON THE POLYMER AND
PLASTICS FIELDS.
AD-463 491

TRANSITION TEMPERATURE

GLASS TRANSITION TEMPERATURES OF
HOMOPOLYMERS. TABLES;
BIBLIOGRAPHY.
AD-476 067

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BIBLIOGRAPHIES**

BIBLIOGRAPHY ON DEGRADATION OF
POLY(VINYL CHLORIDE) BY SOIL
MICROORGANISMS.
AD-601 285

DEGRADATION

BIBLIOGRAPHY ON DEGRADATION OF
POLY(VINYL CHLORIDE) BY SOIL
MICROORGANISMS.
AD-601 285

***POSITRONS**

NUCLEAR SCATTERING

CALCULATIONS IN ATOMIC
SCATTERING PROBLEMS AND ATOMIC
STRUCTURE.
AD-630 172

***POWER PLANTS(ESTABLISHMENTS)
USSR**

ANNOTATED BIBLIOGRAPHY OF BRATSK
AND KRASNOIARSK HYDROELECTRIC
PROJECTS IN CENTRAL SIBERIA, USSR.*
AD-641 304

***POWER SUPPLIES
ABSTRACTS**

BIBLIOGRAPHY COVERING CURRENT
LITERATURE ON DIRECT ENERGY
CONVERSION-INCLUDING
THERMOELECTRICITY, THERMIONIC
EMISSION, PHOTOELECTRIC PROCESSES,
MAGNETOHYDRODYNAMICS,
ELECTROCHEMICAL PROCESSES, ENERGY
STORAGE, AND ENERGY SOURCES.
AD-430 693

BIBLIOGRAPHIES

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SPACECRAFT. AN ANNOTATED
BIBLIOGRAPHY.*
AD-423 714
APPLIED RESEARCH MANAGEMENT
ABSTRACT BULLETIN: PART I,
ABSTRACTS 1-1704 THROUGH 1-1752.
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***PRESERVATION**

BIBLIOGRAPHIES

BIBLIOGRAPHY ON PRESERVATION OF
INACTIVE EQUIPMENT AND LONG-TERM
STORAGE OF MATERIALS.
AD-600 642

***PROCESSING**

REVIEWS

STATE-OF-THE-ART REPORT ON
FABRICATION OF BERYLLIUM.
AD-464 975

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BIBLIOGRAPHIES

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PROGRAMMING.

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ECONOMICS

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CALCULATIONS (PRELIMINARY VERSION).
AD-639 837

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NUMERICAL ANALYSIS

NUMERICAL ANALYSIS AND RELATED
LITERATURE FOR SCIENTIFIC COMPUTER
USERS.*
AD-632 244

*PROPAGATION
TERRAIN

LITERATURE SURVEY PERTAINING TO
ELECTRICALLY SMALL ANTENNAS,
PROPAGATION THROUGH VEGETATION, AND
RELATED TOPICS.
AD-629 155

*PROTECTIVE TREATMENTS
PROCESSING

FLUIDIZED-BED COATING WITH
ORGANIC AND INORGANIC MATERIALS.
AD-456 647

*PROTONS

CHEMICAL REACTIONS
ENERGETICS OF THE COMBINATION OF
A PROTON AND A HYDRIDE ION.*
AD-423 117

*PUNCHED CARDS
BIBLIOGRAPHIES

A SIMPLE AND VERSATILE PUNCH
CARD SYSTEM FOR BIBLIOGRAPHIC USE.
AD-601 914

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BIBLIOGRAPHIES

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QUEUES. A LAMENT AND A
BIBLIOGRAPHY.
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MATERIALS

MONTHLY ACCESSION LIST:
BIBLIOGRAPHY ON THE EFFECTS OF
RADIATION ON MATERIALS, COMPONENTS,
DEVICES, AND TEST FACILITIES.
AD-602 163

POLYMERIZATION

RADIATION POLYMERIZATION STUDIE
AT LOW TEMPERATURES.
AD-613 529

*RADIATION EFFECTS
BIBLIOGRAPHIES

SPACE RADIATION EFFECTS ON
ELECTRONIC MATERIALS.
AD-601 298

*RARE EARTH COMPOUNDS
BIBLIOGRAPHIES

CHEMISTRY OF RARE EARTHS AND
ACTINIDES.
AD-455 165

CHEMISTRY

CHEMISTRY OF RARE EARTH AND
ACTINIDE DERIVATIVES TETRAPYRROL
PIGMENT DERIVATIVES OF RARE EARTH
ELEMENTS AND ACTINIDES: ANALYTICAL
SURVEY.
AD-629 515

*RARE EARTH ELEMENTS

LITERATURE SURVEY ON PREPARATION
OF METALS FROM ORGANOMETALLIC
COMPOUNDS. TRANSITION AND RARE
EARTH METALS WITH THERMAL OR
CHEMICAL METHODS OF RECOVERY.
AD-405 564

*REFRACTORY COATINGS
NIOBIUM

PROTECTIVE COATING SYSTEMS FOR
NIOBIUM IN THE RANGE 1800 2500 F.
AD-621 546

*REFRACTORY MATERIALS
BERYLLIUM COMPOUNDS

THERMODYNAMICS OF REFRACTORY
COMPOUNDS OF BERYLLIUM (OXIDES,
BORIDES, CARBIDES, AND NITRIDES):
AN ANNOTATED BIBLIOGRAPHY.*
AD-439 445

BIBLIOGRAPHIES

AN ANNOTATED BIBLIOGRAPHY
EMPHASIZING PHASE RELATIONSHIPS OF
MOLYBDENUM, NIOBIUM, AND TUNGSTEN
BORIDES, CARBIDES, AND SILICIDES.
AD-410 526

THERMODYNAMICS

THERMODYNAMICS OF CERTAIN
REFRACTORY COMPOUNDS. VOLUME II.
THERMODYNAMIC TABLES, BIBLIOGRAPHY,
AND PROPERTY FILE: SECTIONS VII,

VIII, IX,*
AD-647 955

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THERMIONIC CONVERTERS

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MATERIALS FOR HIGH-TEMPERATURE
ENERGY CONVERTERS: ANNOTATED
BIBLIOGRAPHY.
AD-631 272

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COMPUTERS

RESEARCH ON AUTOMATIC COMPUTER
ELECTRONICS.*
AD-420 950

MATHEMATICS

FINAL REPORT ON RESEARCH PROJECT
IN FUNCTION SPACES AND ALGEBRAS ON
GROUPS INCLUDING BIBLIOGRAPHY OF
NOTES AND PUBLICATIONS.
AD-416 525

*REVAEWS

CRYSTAL GROWTH
COMPATIBLE ACTIVE THIN-FILM
INTEGRATED STRUCTURES.*
AD-425 795

*REVIEWS

MATERIALS

MATERIALS REVIEW: HIGH
POLYMERS, PLASTIC MATERIALS
SYNTHETIC FIBERS, MISCELLANEOUS
ORGANIC AND INORGANIC MATERIALS,
METALS AND ALLOYS.
AD-474 956

POLYMERS

LITERATURE SURVEY ON THERMAL
DEGRADATION, THERMAL OXIDATION, AND
THERMAL ANALYSIS OF HIGH POLYMERS.*
AD-423 546

SPECIFIC HEAT

SURVEY OF EXPERIMENTAL VALUES OF
THE SPECIFIC HEAT OF GRAPHITE FROM
20 TO 3800 DEGREES K, REANALYSIS OF
EXPERIMENTAL DATA; APPROXIMATION OF
LATTICE SPECIFIC HEATS BY EINSTEIN
AND ONE-AND TWO-DIMENSIONAL DEBYE
FUNCTIONS.
AD-427 316

*RHEOLOGY

COMPOSITE MATERIALS
RHEOLOGY OF FILLED SYSTEMS.*
AD-488 382

LUBRICANTS

TRANSLATION OF RUSSIAN
LITERATURE: ELASTO-RHEOLOGICAL
PROBLEMS CONCERNING THE LUBRICATION
OF ROTATING CYLINDERS.
AD-650 806

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DEFORMATION
BIBLIOGRAPHY OF ROCK
DEFORMATION.
AD-606 550

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DEFORMATION
BIBLIOGRAPHY OF EXPERIMENTAL
ROCK DEFORMATION, SECOND EDITION.
AD-627 002
BIBLIOGRAPHY OF EXPERIMENTAL
ROCK DEFORMATION, SECOND EDITION,
PART II.*
AD-640 320

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LUBRICATION
TRANSLATION OF RUSSIAN
LITERATURE: ELASTO-RHEOLOGICAL
PROBLEMS CONCERNING THE LUBRICATION
OF ROTATING CYLINDERS.
AD-650 806

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(AGING (MATERIALS))
ANNOTATED BIBLIOGRAPHY ON THE
AGING OF NATURAL AND SYNTHETIC
RUBBER.
AD-601 249

BIBLIOGRAPHIES

BIBLIOGRAPHY ON AGING OF NATURAL
AND SYNTHETIC RUBBER AND RUBBER
PRODUCTS IN STORAGE.
AD-601 284

DEGRADATION

BIBLIOGRAPHY ON OZONE
DETERIORATION OF RUBBER.
AD-601 291

*RUBBER SEALS

BIBLIOGRAPHIES
O-RINGS. A DDC REPORT
BIBLIOGRAPHY.*
AD-422 417

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SOUTH AMERICA
INVENTORY OF LATIN AMERICAN
AGRICULTURAL COLONIES.

AD-615 459

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BIBLIOGRAPHIESBIBLIOGRAPHY OF PUBLICATIONS ON
STRUCTURAL SANDWICH, PLASTIC
LAMINATES, AND WOOD-BASE
COMPONENTS.
AD-602 351

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MATHEMATICAL ANALYSIS
RESEARCH ON AEROSOL SCATTERING
IN THE INFRARED; FINAL REPORT.
AD-414 384

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TRACER STUDIES
CHEMISTRY AND THE OCEANS.
AD-648 138*SEALS (STOPPERS)
BIBLIOGRAPHIESO-RINGS. A DDC REPORT
BIBLIOGRAPHY.*
AD-422 417

*SEARCHLIGHTS

INSTRUMENTATION
A COMPILATION OF ABSTRACTS AND
ARTICLES ON INSTRUMENTATION USED IN
SEARCHLIGHT TECHNIQUES.
AD-411 349

*SEISMOGRAPHS

BIBLIOGRAPHIES
A BIBLIOGRAPHY OF SEISMOLOGY FOR
THE VELA UNIFORM PROGRAM.*
AD-422 423

*SEISMOLOGY

BIBLIOGRAPHIES
A BIBLIOGRAPHY OF SEISMOLOGY FOR
THE VELA UNIFORM PROGRAM.

AD-469 253

VESIAC MONTHLY BULLETIN OF VELA-
UNIFORM SEISMOLOGICAL RESEARCH
PUBLICATIONS.

AD-623 184

BIBLIOGRAPHY OF EXPERIMENTAL
ROCK DEFORMATION, SECOND EDITION.

AD-627 002

SEISMOLOGY: VESIAC MONTHLY
BULLETIN OF VELA UNIFORM RESEARCH
PUBLICATIONS.

AD-627 183

SEISMOLOGY: VESIAC MONTHLY
BULLETIN OF VELA UNIFORM RESEARCH
PUBLICATIONS.

AD-635 571

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ROCK DEFORMATION, SECOND EDITION,
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VESIAC MONTHLY BULLETIN OF VELA
UNIFORM RESEARCH PUBLICATIONS.*

AD-643 741

VELA-UNIFORM SPONSORED RESEARCH
PUBLICATIONS IN SEISMOLOGY: FIRST
REVISION.*

AD-654 987

PERIODICALS

VESIAC MONTHLY BULLETIN OF VELA
UNIFORM RESEARCH PUBLICATIONS.*

AD-646 573

*SEMICONDUCTOR DEVICES

COMPUTER LOGIC
RESEARCH ON COMPUTER NEURISTOR
DEVICES.
AD-610 095

MATERIALS

SILICON CARBIDE FOR
SEMICONDUCTORS.

AD-464 777

SILICON

COMPATIBLE ACTIVE THIN-FILM
INTEGRATED STRUCTURES.*

AD-425 795

*SERVOMECHANISMS

CONTROL SYSTEMS
BIBLIOGRAPHY ON SERVOMECHANISMS.
AD-412 759

*SHELTERS

GROUND SUPPORT EQUIPMENT
SOVIET LITERATURE ON PROTECTIVE
STRUCTURES AND COMPONENTS --
MISSILE GROUND SUPPORT.
AD-408 352

*SHIP HULLS

VIBRATION
SHIPBOARD VIBRATION RESEARCH IN
THE U. S. A.
AD-611 004

SHI-STA

•SHIP STRUCTURAL COMPONENTS
BIBLIOGRAPHIES
INDEX OF SHIP STRUCTURE
COMMITTEE PUBLICATIONS.
AD-613 270

•SILANES
AMIMAMINES
PHYSICAL AND CHEMICAL PROPERTIES
OF BIS(ANILINO)SILANES AND 4,4'-
DIHYDROXYBIPHENYL COMPOUNDS.
AD-456 734

•SILICON
CRYSTAL GROWTH
COMPATIBLE ACTIVE THIN-FILM
INTEGRATED STRUCTURES.*
AD-425 795

•SILICON COMPOUNDS
REVIEWS
ABSTRACTS FROM THE SOVIET-BLOC
LITERATURE: ORGANOSILICON AND
ORGANOGERMANIUM CHEMISTRY.
AD-635 221

•SNOW
BIBLIOGRAPHIES
BIBLIOGRAPHY ON SNOW, ICE AND
PERMAFROST WITH ABSTRACTS. VOLUME
XVII. *
AD-432 809
BIBLIOGRAPHY ON SNOW, ICE AND
PERMAFROST WITH ABSTRACTS.
CUMULATIVE INDEX, VOLS. I-XVII.
AD-602 778
BIBLIOGRAPHY ON SNOW, ICE AND
PERMAFROST WITH ABSTRACTS. VOLUME
XIX.
AD-621 041
BIBLIOGRAPHY ON SNOW ICE AND
FROZEN GROUND WITH ABSTRACTS.
VOLUME XX.*
AD-641 116

•SOIL MECHANICS
BIBLIOGRAPHIES
SELECTED BIBLIOGRAPHY OF SOIL
MECHANICS AND FOUNDATION
ENGINEERING.
AD-448 594
SOIL COMPACTION AND
STABILIZATION: A SELECTED LIST OF
TITLES.
AD-621 643
BIBLIOGRAPHY ON EARTH MOVEMENT.*
AD-641 716

TEST METHODS

A CRITICAL REVIEW OF THE
LITERATURE ON THE DYNAMIC TESTING
OF SOILS.
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BIBLIOGRAPHIES
SOIL THERMAL PROPERTIES: AN
ANNOTATED BIBLIOGRAPHY.*
AD-431 604

TEST METHODS
A CRITICAL REVIEW OF THE
LITERATURE ON THE DYNAMIC TESTING
OF SOILS.
AD-429 964

•SOUTH AMERICA
RURAL AREAS
INVENTORY OF LATIN AMERICAN
AGRICULTURAL COLONIES.
AD-615 459

•SPACECRAFT
HAZARDS DUE TO HYDROGEN ABOARD A
SPACE VEHICLE.
AD-454 478

POWER SUPPLIES
AUXILIARY POWER SYSTEMS FOR
SPACECRAFT. AN ANNOTATED
BIBLIOGRAPHY.*
AD-423 714

•SPECTROSCOPY
INORGANIC COMPOUNDS
INORGANIC STRUCTURE AND SPECTRA.
AD-618 041

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ENGINEERING
PRODUCTS AND QUOTIENTS OF RANDOM
VARIABLES AND THEIR APPLICATIONS.
AD-603 667

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BIBLIOGRAPHIES
BIBLIOGRAPHY OF CLASSICAL AND
CONTAGIOUS DISCRETE DISTRIBUTIONS.*
AD-651 113

DISTRIBUTION THEORY
PRODUCTS AND QUOTIENTS OF RANDOM
VARIABLES AND THEIR APPLICATIONS.
AD-603 667

FUNCTIONS
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AND STATISTICS OF THE LOGARITMIC

SERIES DISTRIBUTION AND RELATED TABLES.
AD-610 635

HANDBOOKS
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AD-601 886

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BIBLIOGRAPHIES
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AD-617 929
BIBLIOGRAPHY ON STATISTICAL ROBUSTNESS AND RELATED TOPICS.*
AD-631 528

*STEEL
FINISHES AND FINISHING
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AD-601 304

FRACTURE (MECHANICS)
REVIEW OF STRESS-CORROSION CRACKING AND RELATED PHENOMENA IN HIGHSTRENGTH STEELS.
AD-432 321

NAVAL RESEARCH
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AD-647 872

*STORAGE
MATERIALS
BIBLIOGRAPHY ON PRESERVATION OF INACTIVE EQUIPMENT AND LONG-TERM STORAGE OF MATERIALS.
AD-600 642

*STORMS
OCEAN WAVES
BIBLIOGRAPHY ON STORM SURGES AND RELATED SUBJECTS.
AD-639 101

*STRAIN GAGES
BIBLIOGRAPHIES
BIBLIOGRAPHY ON HIGH-TEMPERATURE STRAIN GAGES.
AD-462 692

*STRESS CORROSION
TITANIUM ALLOYS
AN ANNOTATED BIBLIOGRAPHY OF

RECENT PAPERS AND REPORTS ON THE SUBJECT OF AMBIENT TEMPERATURE AQUEOUS STRESS-CORROSION CRACKING OF TITANIUM AND TITANIUM ALLOYS.*
AD-642 128

*STRESSES
CORROSION
REVIEW OF STRESS-CORROSION CRACKING AND RELATED PHENOMENA IN HIGHSTRENGTH STEELS.
AD-432 321

*STRUCTURAL SHELLS
BIBLIOGRAPHIES
STRUCTURAL STABILITY OF TOROIDAL SHELLS: AN ANNOTATED BIBLIOGRAPHY.*
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ABSTRACTS
REVIEW OF CHINESE RESEARCH: PROTECTIVE STRUCTURES AND COMPONENTS.
AD-640 374

ELECTROMAGNETIC SHIELDING
PROPOSED SPECIFICATIONS FOR ELECTROMAGNETIC SHIELDING OF ENCLOSURES AND BUILDINGS. EFFECTIVENESS AGAINST PLANE WAVE FIELDS 2 TO 10,000 MC, AND ELECTROMAGNETIC FIELDS 10 KC TO 2 MC.
AD-417 699

HEAT-RESISTANT PLASTICS
REINFORCED PLASTICS AND LAMINATES FOR HOT STRUCTURES (600 F AND ABOVE).
AD-621 547

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PLASTICS
SUBJECT INDEX, BIBLIOGRAPHY, AND CODE DESCRIPTION OF TECHNICAL CONFERENCE PAPERS ON PLASTICS: 28 FEB 63-1 MAR 64.
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ACCIDENTS
FATAL SUBMARINE ACCIDENTS: A BIBLIOGRAPHY, 1900-1965.*
AD-642 346

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GLASS TEXTILES
GLASS/RESIN INTERFACE: PATENT

SYM-THE

SURVEY, PATENT LIST, AND GENERAL
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INDEXES

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TECHNIQUES FOR THE PRODUCTION OF
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IMPROVED HIGH STRENGTH AND
CORROSION RESISTANCE.
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PCM TELEMETRY: AN ANNOTATED
BIBLIOGRAPHY.*
AD-439 442

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GASES

TRANSLATION OF RUSSIAN RESEARCH:
METHODS OF HIGHTEMPERATURE
MEASUREMENT OF GASES: COMPILATION
OF ABSTRACTS.
AD-618 532

*TERRAIN
THAILAND

THAILAND: BIBLIOGRAPHY FOR
STUDY OF MOBILITY ENVIRONMENT.
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BIBLIOGRAPHIES

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GASES

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MEASUREMENT OF GASES: COMPILATION
OF ABSTRACTS.
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DEGRADATION

BIBLIOGRAPHY ON BACTERIAL
DEGRADATION OF TEXTILES AND
CELLULOSE.
AD-601 280
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TEXTILES BY MICROORGANISMS,
WEATHERING AND ATMOSPHERIC
POLLUTANTS.
AD-621 544

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TRAFFICABILITY

THAILAND: BIBLIOGRAPHY FOR
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TRANSLATION OF RUSSIAN RESEARCH:
MATERIALS FOR HIGH-TEMPERATURE
ENERGY CONVERTERS: ANNOTATED
BIBLIOGRAPHY.
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WELDING

THERMIT WELDING: A SELECTIVE
BIBLIOGRAPHY.*
AD-439 446

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POLYMERIZATION

RADIATION POLYMERIZATION STUDIES
AT LOW TEMPERATURES.
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COMPOUNDS OF BERYLLIUM (OXIDES,
BORIDES, CARBIDES, AND NITRIDES):
AN ANNOTATED BIBLIOGRAPHY.*
AD-439 445

REFRACTORY MATERIALS
THERMODYNAMICS OF CERTAIN

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THERMODYNAMIC TABLES, BIBLIOGRAPHY,
AND PROPERTY FILE: SECTIONS VII,
VIII, IX,*
AD-647 955
- *THERMOELECTRICITY
ABSTRACTS
DIRECT ENERGY CONVERSION
LITERATURE ABSTRACTS,*
AD-420 421
- *THERMOPLASTICS
BIBLIOGRAPHIES
CROSSLINKING, THERMAL AND
MECHANICAL PROPERTIES OF
THERMOPLASTIC AND PHENOLIC RESIN
SYSTEMS; A BIBLIOGRAPHY.*
AD-634 234
- *THERMOSETTING PLASTICS
FUNGUS DETERIORATION
BIBLIOGRAPHY ON MICROBIAL
RESISTANCE OF THERMOSETTING
PLASTICS.
AD-601 278
- *THIN FILMS (STORAGE DEVICES)
EPITAXIAL GROWTH
THE STRUCTURE AND STRENGTH OF
EPITAXIAL FILMS.
AD-432 344
- *THIN FILMS(STORAGE DEVICES)
NICKEL ALLOYS
EFFECTS OF GAS OCCLUSIONS AND
STRAINS ON THE MAGNETIC PROPERTIES
OF THIN PERMALLOY FILMS.
AD-471 647
- *TIME SHARING
STATE-OF-THE-ART REVIEWS
MULTIPROCESSOR OPERATING
SYSTEMS,*
AD-651 707
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BIBLIOGRAPHIES
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AN ANNOTATED BIBLIOGRAPHY OF
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AQUEOUS STRESS-CORROSION CRACKING
OF TITANIUM AND TITANIUM ALLOYS,*
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STRESS CORROSION
AN ANNOTATED BIBLIOGRAPHY OF
RECENT PAPERS AND REPORTS ON THE
SUBJECT OF AMBIENT TEMPERATURE
AQUEOUS STRESS-CORROSION CRACKING
OF TITANIUM AND TITANIUM ALLOYS,*
AD-642 128
- *TRACER STUDIES
CHEMICAL ELEMENTS
CHEMISTRY AND THE OCEANS.
AD-648 138
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THAILAND
THAILAND: BIBLIOGRAPHY FOR
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AD-620 030
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LITERATURE SURVEY ON PREPARATION
OF METALS FROM ORGANOMETALLIC
COMPOUNDS. TRANSITION AND RARE
EARTH METALS WITH THERMAL OR
CHEMICAL METHODS OF RECOVERY.
AD-405 564
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POLYMERS
GLASS TRANSITION TEMPERATURES OF
HOMOPOLYMERS. TABLES!
BIBLIOGRAPHY.
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GEOGRAPHY
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OF THE HUMID TROPIC ENVIRONMENT.
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NON-DESTRUCTIVE TESTING
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TESTING LITERATURE. VOLUME I.
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A STUDY OF LOADS ON UNDERGROUND
STRUCTURES, PARTS I - III.*
AD-420 528
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LOOP ANTENNAS

AN OPTIMIZED ULTRA LOW FREQUENCY
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CYLINDRICAL BODIES

CIRCULAR WAVEGUIDE DUPLEXERS AND
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TRANSMISSION LINE.*

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BIBLIOGRAPHY.*

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THE CHEMISTRY OF WOOD.

AD-602 302

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STRUCTURAL SANDWICH, PLASTIC
LAMINATES, AND WOOD-BASE
COMPONENTS.

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INSTRUMENTATION

HIGH TEMPERATURE X-RAY
DIFFRACTOMETER SPECIMEN
HOLDER/FURNACE.

AD-614 597

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REVIEW AND BIBLIOGRAPHY ON LOW
TEMPERATURE X-RAY DIFFRACTION
TECHNIQUES.

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BIBLIOGRAPHY ON CORROSION
RESISTANCE OF ZINC AND ZINC
COATINGS UNDER CONDITIONS OF HIGH
HUMIDITY OR IN CONTACT WITH GROUND
WATERS.

AD-601 300

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CORROSION INHIBITION

BIBLIOGRAPHY ON CORROSION
RESISTANCE OF ZINC AND ZINC
COATINGS UNDER CONDITIONS OF HIGH
HUMIDITY OR IN CONTACT WITH GROUND
WATERS.

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OXIDES

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PHYSICAL PROPERTIES OF ZIRCONIA.

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PERSONAL AUTHOR INDEX

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BIBLIOGRAPHY, SUPPLEMENT I.
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ANNOTATED BIBLIOGRAPHY,
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SELECTED ACCESSIONS,
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SELECTED ACCESSIONS,
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SELECTED ACCESSIONS,
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SELECTED ACCESSIONS.

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SELECTED ACCESSIONS,
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THE STORAGE, DISTRIBUTION AND
HANDLING OF PETROLEUM PRODUCTS.
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PROBLEMS AND ATOMIC STRUCTURE.
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AD-464 975

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AD-488 382

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EXISTING THEORIES ON THE PHYSICAL
AND MECHANICAL PROPERTIES OF
COMPOSITE MATERIALS.

AD-489 386

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COMPOSITES.
AD-488 387

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PHYSICAL PROPERTIES OF ALUMINUM
HYDRIDE AND CLOSELY RELATED
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AD-439 243

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RELATED SUBJECTS.
AD-639 101

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STEELS. A REVIEW OF THE PROBLEM,
WITH AN ANNOTATED BIBLIOGRAPHY,
AD-432 321

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112,
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SHIELDED-LOOP ANTENNA,
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HYDROGEN,
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HAZARDS DUE TO HYDROGEN ABOARD A
SPACE VEHICLE,
AD-454 478

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SILICON CARBIDE FOR SEMICONDUCTORS,
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APPLICATIONS,
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SUPERALLOYS AND PROTECTIVE
COATINGS.
AD-601 295

*PENDLETON, D. L.

BIBLIOGRAPHY OF EXPERIMENTAL ROCK
DEFORMATION, SECOND EDITION.
AD-627 002

*PENNDORF, RUDOLF B.

RESEARCH ON AEROSOL SCATTERING IN
THE INFRARED.
AD-414 384

*PETERS, ALEC

SOIL THERMAL PROPERTIES: AN
ANNOTATED BIBLIOGRAPHY,
AD-431 604

BIBLIOGRAPHY (WITH ABSTRACTS) ON
GAS-LUBRICATED BEARINGS.
AD-624 288

*PETERSON, W. CHRIS

FIBERS FOR HIGH PERFORMANCE
COMPOSITES.
AD-488 387

*PICK, G. S.

A BIBLIOGRAPHY ON STORM SURGES AND
RELATED SUBJECTS.
AD-639 101

*PICKENPAUGH, EILEEN

DIRECT ENERGY CONVERSION LITERATURE
ABSTRACTS,
AD-420 421

DIRECT ENERGY CONVERSION LITERATURE
ABSTRACTS.
AD-601 224

DIRECT ENERGY CONVERSION LITERATURE
ABSTRACTS.
AD-617 132

*PIERCE, CHARLIE M

THE DIFFUSION OF HYDROGEN AND OTHER
LIGHT GASES THROUGH MEMBRANES,
POROUS MEDIA, AND THIN PLATES: AN
ANNOTATED BIBLIOGRAPHY,
AD-418 234

*PIERCE, CHARLIE M.

THE DESIGN AND ANALYSIS OF
ELECTRICAL ELECTRONIC SYSTEMS BY
MEANS OF DIGITAL COMPUTERS: AN
ANNOTATED BIBLIOGRAPHY,
AD-439 440

*PILKEY, W. D.

BIBLIOGRAPHY, OPTIMUM MECHANICAL
DESIGN SYNTHESIS. VOLUME II.
AD-637 595

*PITTMAN, CHARLES U.

FERROCENE AND FERROCENE
DERIVATIVES.
AD-645 876

*PLATE, COMP. BY PATRICIA B

DEFENSE METALS INFORMATION CENTER
SELECTED ACCESSIONS,
AD-410 839

*PLATE, COMP. BY PATRICIA B.

* * *

DEFENSE METALS INFORMATION CENTER
SELECTED ACCESSIONS,
AD-407 822

* * *

DEFENSE METALS INFORMATION CENTER
SELECTED ACCESSIONS,
AD-412 836

*PODOSKI, JOSEPH J.

* * *

COMPUTER TECHNOLOGY: ANNOTATED
BIBLIOGRAPHY.
AD-633 103

*PODPALY, VLADIMIR

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COMPUTER TECHNOLOGY: ANNOTATED
BIBLIOGRAPHY.
AD-633 103

*POSEY, KENNETH A.

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LITERATURE SURVEY PERTAINING TO
ELECTRICALLY SMALL ANTENNAS,
PROPAGATION THROUGH VEGETATION, AND
RELATED TOPICS.
AD-629 155

*POSTEN, HARRY O.

* * *

BIBLIOGRAPHY ON STATISTICAL
ROBUSTNESS AND RELATED TOPICS.
AD-631 528

*PRICE, JAMES F.

* * *

NUMERICAL ANALYSIS AND RELATED
LITERATURE FOR SCIENTIFIC COMPUTER
USERS.
AD-632 244

*RANJJELOVIC, JORDAN V.

* * *

ELECTROMAGNETIC AND ELECTROSTATIC
GENERATORS: ANNOTATED
BIBLIOGRAPHY.
AD-629 476

* * *

ELECTROSTATIC AND ELECTROMAGNETIC
GENERATORS: ANNOTATED BIBLIOGRAPHY.
AD-633 963

*REILLEY, CHARLES N.

* * *

STUDIES IN THE CHEMISTRY OF METAL-
CHELONATES.
AD-601 732

*RENTON, JOHN J.

* * *

LOW TEMPERATURE X-RAY DIFFRACTION
TECHNIQUES. I. REVIEW AND
BIBLIOGRAPHY. II. A LOW TEMPERA
TURE SPECIMEN MOUNT FOR THE SIEMENS
HORIZONTAL DIFFRACTOMETER.
AD-408 705

*RICE, RANDALL G.

* * *

HYDRAZINE AND HYDRAZINE
DERIVATIVES. A DDC REPORT
BIBLIOGRAPHY.
AD-424 722

*RIZCKER, R. E.

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BIBLIOGRAPHY OF ROCK DEFORMATION.
AD-606 550

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DEFORMATION, SECOND EDITION.
AD-627 002

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DEFORMATION, SECOND EDITION, PART
II.
AD-640 320

*RIPPIN, JAMES

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RESEARCH STUDIES ON PROBLEMS
RELATED TO ANTENNAS.
AD-601 586

*ROBERTS, G. E.

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A SURVEY OF GEODESIC LENS SCANNING
ANTENNAS,
AD-424 354

*RODGERS, ERNEST H.

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A REPORT GUIDE TO ULTRASONIC
TESTING LITERATURE. VOLUME I.
AD-630 652

*RODGERS, WILLIAM H.

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BIBLIOGRAPHY ON EARTH MOVEMENT,
AD-641 716

*ROGERS, MORRIS R.

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THE MICROBIOLOGICAL DETERIORATION
OF HYDROCARBONS AND THE RELATED
DEGRADATION OF EQUIPMENT USED FOR
THE STORAGE, DISTRIBUTION AND

HANDLING OF PETROLEUM PRODUCTS.
AD-453 361

*ROMIG, MARY F.

FATAL SUBMARINE ACCIDENTS; A
BIBLIOGRAPHY, 1900-1965;
AD-642 346

*ROSENBLATT, F.

COLLECTED TECHNICAL PAPERS, VOLUME
2,
AD-420 696

*SAATY, THOMAS L.

SEVEN MORE YEARS OF QUEUES. A
LAMENT AND A BIBLIOGRAPHY,
AD-645 679

*SALKIND, M. J.

WHISKERS AND WHISKER-STRENGTHENED
COMPOSITE MATERIALS,
AD-426 365

*SAMUEL, PARKASH

BIBLIOGRAPHY ON PHYSICAL
OCEANOGRAPHY OF THE INDIAN OCEAN.
AD-624 466

*SANDS, ANNE W.

ANNOTATED BIBLIOGRAPHY OF BRATSK
AND KRASNOIARSK HYDROELECTRIC
PROJECTS IN CENTRAL SIBERIA, USSR,
AD-641 304

*SAUBERLICH, HOWERDE E.

A SIMPLE AND VERSATILE PUNCH CARD
SYSTEM FOR BIBLIOGRAPHIC USE.
AD-601 914

*SAUCIER, R. T.

SELECTED GEOLOGIC LITERATURE LOWER
MISSISSIPPI VALLEY DIVISION AREA
INDEX AND ANNOTATED BIBLIOGRAPHY.
AD-628 983

*SCHICK, HAROLD L.

THERMODYNAMICS OF CERTAIN
REFRACTORY COMPOUNDS. VOLUME II,
THERMODYNAMIC TABLES, BIBLIOGRAPHY,
AND PROPERTY FILE: SECTIONS VII.

VIII, IX.
AD-647 955

*SCHWARTZ, EUGENE

THE PHYSICAL AND CHEMICAL
PROPERTIES OF DILUTE ALKALI METAL
AMALGAMS, A REVIEW, PART II:
CHEMICAL PROPERTIES AND STRUCTURES.
AD-609 294

*SEREMAK, J.

DIAPHRAGMS, A SELECTED
BIBLIOGRAPHY,
AD-623 361

*SHAMBURGER, J. H.

MOBILITY ENVIRONMENTAL RESEARCH
STUDY. A LITERATURE SURVEY OF
ENVIRONMENTAL FACTORS IN THAILAND.
AD-620 030

*SHOUB, HARRY

AN ANNOTATED BIBLIOGRAPHY ON CARBON
TETRACHLORIDE AS A FIRE
EXTINGUISHANT,
AD-650 735

*SILVA, DONALD G.

DIFFUSION BIBLIOGRAPHY,
AD-464 881

*SLESARENKO, MICHAEL

MATERIALS FOR HIGH-TEMPERATURE
ENERGY CONVERTERS: ANNOTATED
BIBLIOGRAPHY.
AD-625 198

MATERIALS FOR HIGH-TEMPERATURE
ENERGY CONVERTERS: ANNOTATED
BIBLIOGRAPHY.
AD-631 272

*SLUNDER, C. J.

SHORT-TIME TENSILE PROPERTIES OF
THE CO-20CR15W-1-NI COBALT-BASE
ALLOY (L-605),
AD-425 922

*SMITH, GRANT GILL

THE EFFECT OF STRUCTURAL CHANGES ON
THE PYROLYSIS OF ORGANIC ESTERS.

- AD-608 632
- *SMITH, W. W. * * *
PHYSICAL EFFECTS ON THE OCEAN SURFACE,
AD-627 385
- *SPENCE, G. B. * * *
RESEARCH AND DEVELOPMENT ON ADVANCED GRAPHITE MATERIALS. VOLUME XLI SURVEY AND ANALYTICAL REPRESENTATION OF THE MEASUREMENTS OF THE SPECIFIC HEAT OF GRAPHITE,
AD-427 316
- *STABLEIN, PAUL * * *
THE STRUCTURE AND STRENGTH OF EPITAXIAL FILMS.
AD-609 730
- *STENGER, FERDINAND * * *
SELECTED BIBLIOGRAPHY OF SOIL MECHANICS AND FOUNDATION ENGINEERING,
AD-448 594
- *STERN, I. L. * * *
BIBLIOGRAPHY AND INDEX OF NAVAL APPLIED SCIENCE LABORATORY TECHNICAL REPORTS ON HIGH STRENGTH STEELS.
AD-647 872
- *STOREY, T. G. * * *
FIRE BIBLIOGRAPHY: SELECTED URBAN, AND MIXED URBAN - RURAL FIRES, 1940-1964,
AD-634 042
- *STOUT, LOIS J. * * *
FUEL CELLS; SELECTED REFERENCES.
AD-609 880
- *STROMER, PETER R. * * *
AUXILIARY POWER SYSTEMS FOR SPACECRAFT. AN ANNOTATED BIBLIOGRAPHY,
AD-423 714
- *TARGONSKI, GYORGY I * * *
A BIBLIOGRAPHY ON FUNCTIONAL EQUATIONS.
AD-414 115
- *TAYLOR, ALFRED H. * * *
OZONE PREPARATION AND STABILITY IN HIGH CONCENTRATIONS. VOLUME 2. BIBLIOGRAPHY.
AD-639 200
- *TAYLOR, JOHN * * *
LITERATURE SURVEY PERTAINING TO ELECTRICALLY SMALL ANTENNAS, PROPAGATION THROUGH VEGETATION, AND RELATED TOPICS.
AD-629 155
- *TEETSEL, DOROTHY A. * * *
DIELECTRIC PROPERTIES OF POLYMERS. A BIBLIOGRAPHY.
AD-635 199
- *TENER, R. K. * * *
A STUDY OF LOADS ON UNDERGROUND STRUCTURES, PARTS I - III.
AD-420 528
- *TITUS, JOAN B. * * *
SUBJECT INDEX, BIBLIOGRAPHY, AND CODE DESCRIPTION OF TECHNICAL CONFERENCE PAPERS ON PLASTICS: 2 MARCH 1964-5 MARCH 1965,
AD-620 142
- * * *
SUBJECT INDEX, BIBLIOGRAPHY, AND CODE DESCRIPTION OF TECHNICAL CONFERENCE PAPERS ON PLASTICS: 5 MARCH 1965 - 10 MARCH 1966,
AD-641 666
- *TOWNSEND, PETER D. * * *
STRUCTURAL STABILITY OF TOROIDAL SHELLS: AN ANNOTATED BIBLIOGRAPHY,
- AD-423 823
FUSION WELDING OF ALUMINUM: AN ANNOTATED BIBLIOGRAPHY,
AD-431 626
PCM TELEMETRY: AN ANNOTATED BIBLIOGRAPHY,
AD-439 442

TRE-WIN

- A BIBLIOGRAPHY ON SELECTED PROPERTIES OF THE SODIUM, POTASSIUM, AND RUBIDIUM NITRATES, CHLORATES, AND BROMATES,
AD-452 319
- *TREW, JAMES R.
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NUCLEATE BOILING. A LITERATURE SURVEY OF UNCLASSIFIED REPORTS,
AD-607 632
- *TSUDA, ROY T.
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ATOLL RESEARCH BULLETIN, NOS. 109-112,
AD-617 713
- *TSUTSUI, MINORU
* * *
LITERATURE SURVEY ON THE PREPARATION OF METALS FROM ORGANOMETALLIC COMPOUNDS,
AD-405 564
- *TURNER, F. S.
* * *
TANTALUM ALLOY TUBING DEVELOPMENT PROGRAM.
AD-427 992
- *VAND, V.
* * *
RELATION OF MECHANICAL PROPERTIES TO THE STRUCTURE OF IONIC SOLIDS.
AD-641 911
- *VANECHO, J. A.
* * *
CREEP OF COLUMBIUM ALLOYS,
AD-424 097
- *VAN HORN, D. A.
* * *
A STUDY OF LOADS ON UNDERGROUND STRUCTURES, PARTS I - III.
AD-420 528
- *VEAZIE, W. H.
* * *
ELECTRONIC PACKAGING: A BIBLIOGRAPHY,
AD-634 004
- *VEDAM, K.
* * *
RELATION OF MECHANICAL PROPERTIES TO THE STRUCTURE OF IONIC SOLIDS.
AD-641 911
- *VINCENT, J. ROSS
* * *
EXPERIMENTAL DATA TO SUPPORT EXISTING THEORIES ON THE PHYSICAL AND MECHANICAL PROPERTIES OF COMPOSITE MATERIALS.
AD-488 386
- *VOGEL, HARVEY
* * *
AN INVENTORY OF GEOGRAPHIC RESEARCH OF THE HUMID TROPIC ENVIRONMENT. VOLUME I. KWIC INDEX. HUMID TROPIC ENVIRONMENTAL LITERATURE,
AD-625 426
- *VVEDENSKII, DIMITRI
* * *
LIQUID STATE OF METALS,
AD-626 598
- *WALD, BRUCE
* * *
MULTIPROCESSOR OPERATING SYSTEMS,
AD-651 707
- *WANI, J. K.
* * *
CERTAIN STUDIES OF THE STRUCTURE AND STATISTICS OF THE LOGARITHMIC SERIES DISTRIBUTION AND RELATED TABLES.
AD-610 635
- *WEBER, BERTHOLD C.
* * *
AN ANNOTATED BIBLIOGRAPHY OF RESEARCH ON THE STRUCTURAL AND PHYSICAL PROPERTIES OF ZIRCONIA,
AD-610 758
- *WILCOX, H. E.
* * *
A BIBLIOGRAPHY ON POLYTETRAFLUOROETHYLENE (TEFLON) PLASTICS,
AD-633 579
- *WINSOR, CURTIN, JR
* * *
A SELECTED INVENTORY OF LATIN AMERICAN AGRICULTURAL COLONIES WITH ANNOTATED BIBLIOGRAPHY,
AD-615 459
- *WINTZER, W. F.
* * *
DEEXCITATION OF HELIUM ATOMS IN THE METASTABLE TRIPLET STATE (2-3S) IN PURE HELIUM.

AD-609 832

*WOLSKI, EDWARD

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CHEMISTRY OF ORGANOMETALLIC
COMPOUNDS. PART A. ORGANOSILICON
AND ORGANOGERMANIUM CHEMISTRY:
ANNOTATED BIBLIOGRAPHY.
AD-635 221

*WOODS, RICHARD D.

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PRELIMINARY DESIGN OF DYNAMIC-
STATIC DIRECT SHEAR APPARATUS FOR
SOILS AND ANNOTATED BIBLIOGRAPHIES
OF SOIL DYNAMICS AND CRATERING,
AD-429 964

*YEAGER, ERNEST

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THE PHYSICAL AND CHEMICAL
PROPERTIES OF DILUTE ALKALI METAL
AMALGAMS, A REVIEW. PART II:
CHEMICAL PROPERTIES AND STRUCTURES.
AD-609 294

*ZURICHENKO, ALEX

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HIGH-PURITY METALS: ANNOTATED
BIBLIOGRAPHY.
AD-624 997

* * *

HIGH-PURITY METALS, PART II:
ANNOTATED BIBLIOGRAPHY.
AD-631 512

CONTRACT INDEX

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 AD-439 243

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 AD-616 389

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 OHIO RADIATION EFFECTS
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 (WADD-TR61 74)
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 AD-410 839
 AD-410 805
 AD-420 035

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M170
AD-424 097
AD-424 558
M179
AD-425 922

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ENGINEERING RESEARCH LAB
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(RTD-TDR63 4069)
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RCA LABS PRINCETON N J
AD-425 795

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(AFOSR-J1536)
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RM-3951-1-PR
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RM-4523-PR
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(AFOSR-65-1030)
AD-617 929

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UTAH STATE UNIV LOGAN
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PRINCETON UNIV N J
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MICHIGAN UNIV ANN ARBOR
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STANFORD RESEARCH INST MENLO PARK

CALIF
STR-17
AD-629 155

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ARMY ENGINEER WATERWAYS EXPERIMENT
STATION VICKSBURG MISS
AEWES-TR-3-681-1
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AD-642 128

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(RSIC-257)
AD-456 734
(RSIC-227)
AD-464 975

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BATTELLE MEMORIAL INST COLUMBUS
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CALIF
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AD-630 113
(WAL-401/174)
AD-630 129

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STANFORD RESEARCH INST MENLO PARK
CALIF
STR-17
AD-629 155

*DA36 039AMC00088E
SYLVANIA ELECTRONIC SYSTEMS-WEST
MOUNTAIN VIEW CALIF ELECTRONIC
DEFENSE LABS
M557
AD-433 653

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(DASA-1406)
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CINCINNATI UNIV OHIO

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F AD-423 117
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MONSANTO RESEARCH CORP ST LOUIS MO
HPC-65-3
AD-488 382
HPC-65-7
AD-488 386
HPC-65-8
AD-488 387
- *N62306-1145
METEOROLOGICAL AND GEOSTROPHICAL
ABSTRACTS WASHINGTON D C
OCEANOGRAPHY CONTRIBUTION-2
AD-624 466
- *N62399-66-0017
CONSULTING AND RESEARCH SERVICES
INC BRYAN TEX
AD-648 572
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GENISTRON INC LOS ANGELES CALIF
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- *NBY-62210
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BROWN UNIV PROVIDENCE R I CENTER
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IMM-351
AD-642 657
- *NONR-285(49)
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PURDUE UNIV LAFAYETTE IND
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- *NONR-2196(00)
WOODS HOLE OCEANOGRAPHIC
INSTITUTION MASS
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FRANKLIN INST RESEARCH LABS
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- *NONR2391 00
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OHIO ELECTROCHEMISTRY RESEARCH
LAB
AD-609 294
- *NONR-3292(03)
CONNECTICUT UNIV STORRS DEPT OF
STATISTICS
RR-16
AD-631 528
- *NONR-4177(00)
NATIONAL ENGINEERING SCIENCE CO
MCLEAN VA
SN-134-12
AD-639 101
- *NONR76024
CARNEGIE INST OF TECH PITTSBURGH PA
GRADUATE SCHOOL OF INDUSTRIAL
ADMINISTRATION
MSRR-33
AD-616 113
- *NONR230012
NATIONAL ACADEMY OF SCIENCES-
NATIONAL RESEARCH COUNCIL
WASHINGTON D C PACIFIC SCIENCE
BOARD
AD-617 713
- *NONR321200
STANFORD RESEARCH INST MENLO PARK
CALIF
F AD-610 095
- VORD17017
LOCKHEED MISSILES AND SPACE CO
SUNNYVALE CALIF
3 80 63 6
AD-436 023
3 80 63 2

AD-438 176
 3 80 63 5
 AD-439 444
 63 16
 AD-439 445

MICHIGAN UNIV ANN ARBOR INST OF
 SCIENCE AND TECHNOLOGY
 4410-81-B
 AD-469 253

*NOW62 0050C
 LOCKHEED MISSILES AND SPACE CO
 SUNNYVALE CALIF
 8 40 63 10
 AD-423 823

*NOW62 0363
 LOCKHEED MISSILES AND SPACE CO
 SUNNYVALE CALIF
 3 25 63 5
 AD-431 627
 3 26 63 6
 AD-439 443

*NOW63 0050C
 LOCKHEED MISSILES AND SPACE CO
 SUNNYVALE CALIF
 8 40 63 9
 AD-423 723
 2 60 63 2
 AD-439 440
 SB64 6
 AD-439 442

*NOW64 0061D
 MIDWEST RESEARCH INST KANSAS CITY
 MO
 AD-432 344
 F AD-609 730

*NSF-GP-3250
 WOODS HOLE OCEANOGRAPHIC
 INSTITUTION MASS
 WHOI-REF-66-34
 AD-635 898

*OCD OS62 58
 FRANKLIN INST PHILADELPHIA PA
 AD-431 604

*SB63 26
 LOCKHEED MISSILES AND SPACE CO
 SUNNYVALE CALIF
 6 90 63 311
 AD-418 234

*SB63 49
 LOCKHEED MISSILES AND SPACE CO
 SUNNYVALE CALIF
 SB63 495 10 63 22
 AD-408 618

*SD78

REPORT NUMBER INDEX

2 60 63 2 AD-439 440	13 AD-431 603
2 60 64 9 AD-439 442	62-43 AD-416 398
3 26 63 5 AD-431 627	63 16 AD-439 445
3 26 63 6 AD-439 443	63 47 AD-430 543
3 77 63 1 AD-441 583	64-205 AD-610 758
3 80 63 2 AD-438 176	83 AD-467 420
3 80 63 3 AD-439 445	291 AD-454 478
3 80 63 5 AD-439 444	491 TDR1 AD-431 821
3 80 63 6 AD-436 023	1302 AD-621 982
3 5663 2 AD-441 621	4410 108 AD-422 423
5 73 63 7 AD-439 446	4410-81-B AD-469 253
5 73 63 8 AD-426 010	7885-5-X1 AD-654 987
6 501 2 AD-424 354	17076 AD-412 036
8 30 63 2 AD-431 626	18752 AD-406 734
8 40 63 9 AD-423 723	19012 AD-405 656
8 40 63 10 AD-423 823	19065 AD-406 745
8 44 63 9 AD-420 950	19215 AD-410 702
8 55 63 4 AD-423 714	19328 AD-408 845
11 AD-635 584	19349 AD-406 963
12 AD-641 116	19379 AD-412 075

19597 AD-410 672	AFOSR-4847 AD-416 525
19823 AD-412 100	AFOSR-4973 AD-414 115
19923 AD-412 083	AFOSR-J1152 AD-423 117
20110 AD-412 091	AFOSR-J1536 AD-427 526
AEWES-TR-3-681-1 AD-620 030	AID-63 791 AD-408 352
AFCRL-63 22 AD-405 564	AID-863 114 AD-419 989
AFCRL-63 668 AD-414 384	AID-REPT. P 63 92 AD-411 349
AFCRL-64-118 AD-614 597	AID-U-64-40 AD-623 251
AFCRL-64 713 AD-606 550	AID-U-64-50 AD-458 300
AFCRL-65-740 AD-627 002	AID-U-64-60 AD-460 098
AFCRL-65-740-PT-2 AD-640 320	AMC RA-RE TR63 7 AD-420 470
AFCRL-SR5 AD-606 550	AMRA-CR-66-07/1 AD-641 911
AFCRL-SR-35 AD-627 002	AMRA-MS-66-02 AD-630 652
AFCRL-SR-35-PT-2 AD-640 320	AMRNL-281 AD-601 914
AFOSR-64 2343 AD-608 632	APL-TDR64 4 AD-431 821
AFOSR-65-0980 AD-618 041	
AFOSR-63-1030 AD-617 929	ARL-64 115 AD-603 667
AFOSR-66-1422 AD-641 076	ARL-64 197 AD-610 635
AFOSR-67-1167 AD-653 226	ARL-66-0185 AD-651 113
AFOSR-4312 AD-601 732	ARCO-495716 AD-637 595

ASD-TDR63 278
AD-408 705

ASD-TR63 7 648A VOL. 2
AD-423 071

ATD-65-103
AD-629 476

ATD-65-109
AD-624 997

ATD-65-112
AD-625 198

ATD-66-1
AD-629 515

ATD-66-9
AD-629 768

ATD-66-10
AD-633 963

ATD-66-12
AD-633 103

ATD-66-17
AD-631 512

ATD-66-19
AD-633 373

ATD-66-20
AD-631 272

ATD-66-33
AD-634 090

ATD-66-37
AD-633 892

ATD-66-38
AD-637 693

ATD-66-47
AD-635 221

ATD-66-90
AD-640 374

ATD-66-120
AD-643 854

ATD-66-145
AD-646 797

ATD-B-65-54
AD-618 471

ATD-B-65-95
AD-626 598

ATD-P-65-50
AD-466 287

ATD-P-65-53
AD-618 532

ATD-U-64-48
AD-460 446

ATD-U 64 97
AD-609 310

B63 84
AD-407 675

BIBLIOGRAPHY 241
AD-448 594

BIBLIOGRAPHY-244
AD-641 304

BULL-32
AD-623 184

CE-3343-108-64U
AD-641 716

CRDL SP 5-7
AD-463 490

CRDL-SPECIAL PUB-5-8
AD-474 956

CRDRDL-SP5 4
AD-605 214

CRREL-12
AD-432 809
AD-602 778
AD-621 041

D1-82-0517
AD-632 244

DASA-1406
AD-420 528

DCAS-TN61 3 P1 12
AD-604 746

DRL-A-285
AD-654 716

DTMB-1891
AD-611 004

FTD-PDC

EPIC-S-5
AD-465 159

FTD-MT-65-401
AD-650 806

HOL-TR1128
AD-406 106

HOL-TR1169
AD-430 908

HOL-TR-1338
AD-649 629

HPC-65-3
AD-488 382

HPC-65-7
AD-488 386

HPC-5-8
AD-488 387

I-A2049-25
AD-624 288

IMM-351
AD-642 657

LS-BIB-65-1
AD-623 361

LS-BIB-65-3
AD-633 579

M170
AD-424 097

M179
AD-425 922

M557
AD-433 653

M6089
AD-637 595

MAL76
AD-602 163

MATHEMATICAL NOTE-456
AD-632 244

MOA TIL-BIB52 29
AD-412 759

MSRR-33
AD-616 113

MT63 12
AD-425 552

NADC AW-5428
AD-609 832

NCEL-TN-549
AD-430 910

NODC-C-1 VOL-2
AD-618 941

NOO-U2438A
AD-431 645

NRC-8084
AD-618 157

NRL-6041
AD-432 321

NRL-6531
AD-651 707

NRL-BIB-26
AD-627 385

NRL-BIB-29
AD-642 128

OCEANOGRAPHY CONTRIBUTION-2
AD-624 466

ORDL-EC-TR2 29
AD-602 727

P-3365-2
AD-650 074

P-3461
AD-642 346

PA-TR3161
AD-452 319

PDC-S63-003
AD-601 298

PDC S64 002 PDL50728
AD-601 249

PDC SEARCH NO. 62-051
AD-621 544

PDC SEARCH NO. 63-057
AD-621 545

PDC SEARCH NO. 64-009
AD-621 547

PDL40596 AD-601 238	PDL 48073 AD-601 300
PDL41293 AD-601 278	PDL48074 AD-601 247
PDL 42275 AD-601 286	PDL49379 AD-601 284
PDL42278 AD-601 282	PDL49630 AD-600 642
PDL42279 AD-601 288	PDL49679 AD-600 643
PDL42283 AD-601 285	PDL49705 AD-601 310
PDL42285 AD-601 280	PDL50066 AD-600 530
PDL43215 AD-601 303	PDL50140 AD-601 295
PDL 43216 AD-601 304	PDL-50174 AD-621 545
PDL44131 AD-601 305	PDL-50205 AD-621 546
PDL44360 AD-601 291	PDL-50534 AD-621 547
PDL44481 AD-601 290	PDL50915 AD-601 279
PDL44499 AD-601 307	PLASTEC-17 AD-606 561
PDL45268 AD-601 309	PLASTEC-18 AD-609 526
PDL 45762 AD-601 311	PLASTEC-21 AD-620 142
PDL-45840 AD-621 544	PLASTEC-27 AD-641 666
PDL45936 AD-601 294	PLASTEC NOTE-11 AD-634 234
PDL 46037 AD-601 301	PLASTEC NOTE-12 AD-635 799
PDL-46195 AD-601 298	PLASTEC NOTE-15 AD-643 025
PDL46448 AD-601 299	PLASTEC NOTE-16 AD-653 837

PTEC-14
AD-423 560

PTEC-PN7
AD-423 546

R400-65-198
AD-614 597

RADC-TDR63 209
AD-606 049

REF-64-54
AD-612 523

REF-65-67
AD-628 758

REPT. NO. S862 691
AD-407 519

RIAL-63 2041
AD-420 117

RIAL-63 2762
AD-432 503

RM-3951-1-PR
AD-603 387

RM3951PR
AD-429 915

RM-4523-PR
AD-613 311

RM-5135-PR
AD-639 837

RR-16
AD-631 528

RSIC-84
AD-431 830

RSIC-227
AD-464 975

RSIC-238
AD-456 647

RSIC-257
AD-456 734

RSIC-381
AD-464 777

RSIC-416
AD-471 647

RSIC-534
AD-634 004

RSIC-591
AD-645 876

RTD-TDR63 3050
AD-429 964

RTD-TDR63 4069
AD-425 552

RTD-TDR 63 4141
AD-431 733

RTD-TR8 109
AD-427 992

S58 003
AD-601 280

S60 041
AD-601 238

S61 003
AD-601 286

S61 007
AD-601 285

S61 016
AD-601 284

S61 018
AD-601 288

S61 027
AD-601 278

S61 037
AD-601 282

S62 010
AD-601 303

S62 013
AD-601 304

S62 028
AD-601 305

S62 033
AD-601 291

S62 037
AD-601 290

S62 038
AD-601 307

S62 044
 AD-601 309
 S62 049
 AD-601 310
 S62 053
 AD-601 311
 S62 058
 AD-601 294
 S63 001
 AD-601 301
 S63 004
 AD-601 299
 S63 022
 AD-601 300
 S63 025
 AD-601 247
 S63 045
 AD-600 642
 S63 046
 AD-600 643
 S63 048
 AD-600 530
 S63 050
 AD-601 295
 S64 011
 AD-601 279
 SB-6
 AD-621 643
 SB-59-12
 AD-462 681
 SB-59-49
 AD-462 688
 SB-60-8
 AD-462 691
 SB-60 9
 AD-462 692
 SB-60-37
 AD-606 235
 SB62 22
 AD-438 176

S263 81 6 90 63 9
 AD-407 945
 SB63 91
 AD-410 526
 SB63 44
 AD-423 723
 SB63 46
 AD-423 714
 SB63 50
 AD-423 823
 SB63 54
 AD-439 444
 SB63 55
 AD-431 627
 SB63 56
 AD-431 626
 SB 63 59
 AD-441 583
 SB63 62
 AD-439 443
 SB63 63
 AD-441 621
 SB63 65
 AD-439 440
 SB63 495 10 63 22
 AD-408 618
 SB64 6
 AD-439 442
 SB6325
 AD-439 446
 SID64 11
 AD-433 573
 SN-134-12
 AD-639 101
 SORO/CINFAC/18-65
 AD-615 459
 SP1025 001 00
 AD-425 439
 SPECIAL BIBLIOGRAPHY NO. SB63 101
 AD-409 795

SRB-USN

SRB63 3
AD-426 010

SSD-TDR64 17
AD-439 243

STL-B-31
AD-607 632

STL/GM-60-5111-3
AD-607 632

STR-17
AD-629 155

TDR269 4210 10 4
AD-439 243

TM-1
AD-640 402

TM-698/064/00
AD-612 955

TR-3-712
AD-628 983

TR-1304
AD-625 885

TR-55151
AD-476 067

TT-55-62675
AD-618 471

TT-65-62677
AD-618 532

TT-65-64462
AD-623 251

TT-65-64830
AD-624 997

TT-66-60037
AD-625 198

TT-66-60264
AD-626 598

TT-66-60736
AD-629 476

TT-66-60739
AD-629 515

TT-66-60749
AD-629 768

TT-66-61048
AD-631 272

TT-66-61093
AD-631 512

TT-66-61269
AD-633 103

TT-66-61367
AD-633 373

TY-66-61430
AD-633 892

TY-66-61444
AD-633 963

TT-66-61465
AD-634 090

TT-66-61678
AD-635 221

TT-66-62135
AD-637 693

TT-66-62381
AD-639 837

TT-66-62455
AD-640 374

TT-66-62544
AD-641 304

TT-67-60231
AD-643 854

TT-67-60967
AD-646 797

TT-67-61601
AD-650 806

U 64 64
AD-456 761

U64 74
AD-456 764

U64 80
AD-455 164

U64 81
AD-455 165

USNRDL-TR-67-16
AD-648 131

VESIAC BULL-40
AD-635 571

VESIAC BULL-45
AD-643 741

VESIAC BULL-47
AD-646 573

VESIAC BULLETIN NO. 35
AD-627 183

WADD-TR61 74
AD-427 316

WAL-401/174
AD-630 129

WAL-401/174-SUPPL.
AD-630 113

WHOI-REF-66-34
AD-635 898

WHOI-REF-66-72
AD-648 536

WVT-RR6315
AD-426 365

AD-NUMERIC INDEX

AD Number	Page	AD Number	Page
403 441	293	418 119	185
403 493	294	418 234	13
403 519	59	419 989	14
403 705	175	420 035	186
403 775	176	420 117	302
403 790	273	420 421	160
403 796	295	420 470	116
404 086	107	420 528	303
404 513	60	420 696	276
404 724	108	420 950	117
404 750	61	422 417	187
404 933	109	422 423	63
405 175	177	422 768	188
405 564	1	423 071	304
405 658	110	423 117	15
406 106	159	423 546	16
406 734	2	423 560	189
406 745	3	423 714	161
406 963	4	423 723	305
407 519	178	423 823	306
407 675	111	424 097	190
407 822	179	424 354	118
407 945	112	424 558	191
408 352	296	424 722	17
408 618	180	425 439	119
408 705	5	425 552	192
408 845	6	425 795	120
409 323	297	425 922	193
409 795	298	426 010	194
410 525	181	426 275	277
410 672	113	426 365	195
410 702	114	426 732	196
410 839	182	427 316	64
411 349	299	427 526	278
412 036	7	427 992	197
412 075	115	429 915	121
412 083	8	429 964	65
412 091	9	430 543	66
412 095	10	430 693	162
412 100	11	430 908	198
412 759	300	430 910	199
412 836	183	431 603	200
414 115	274	431 604	67
414 384	12	431 626	307
416 398	62	431 627	308
416 525	275	431 645	68
417 111	184	431 733	122
417 699	301	431 821	123

AD Number	Page	AD Number	Page
431 830	18	471 647	37
432 321	201	474 956	210
432 344	19	476 067	211
432 503	202	488 382	212
432 809	69	488 386	213
433 091	20	488 387	214
433 573	20	600 530	131
433 653	204	600 642	215
433 739	124	600 643	216
436 023	309	601 224	164
438 176	205	601 238	316
439 243	21	501 247	217
439 440	125	601 249	218
439 442	126	601 278	219
439 443	206	601 279	220
439 444	207	601 280	221
439 445	208	601 282	222
439 446	310	601 284	223
441 582	311	601 285	224
441 621	70	601 286	225
		601 288	226
448 594	71	601 290	227
452 319	22	601 291	228
453 361	23	601 294	229
454 478	24	601 295	230
455 164	25	601 296	132
455 165	26	601 299	231
456 647	209	601 300	232
456 734	27	601 301	133
456 761	28	601 303	74
456 764	29	601 304	233
458 300	72	601 305	75
460 098	30	601 307	234
460 446	31	601 309	235
462 681	312	601 310	76
462 688	128	601 311	134
462 691	32	601 501	135
462 692	33	601 586	136
463 490	34	601 732	38
464 777	129	601 886	279
464 881	313	601 914	137
464 975	314	602 163	39
465 159	35	602 302	236
465 981	163	602 351	237
466 287	130	602 397	238
467 420	315	602 727	239
468 320	36	602 778	77
469 253	73	603 387	280

AD Number	Page	AD Number	Page
603 667	281	621 041	85
604 746	165	621 544	248
605 214	240	621 545	249
606 049	40	621 546	250
606 235	138	621 547	251
606 314	241	621 643	86
606 550	78	621 982	87
606 561	242	623 184	88
606 824	243	623 251	50
607 632	41	623 361	321
608 632	42	624 288	322
608 880	166	624 466	89
609 027	139	624 997	252
609 073	140	625 198	169
609 074	141	625 426	90
609 082	142	625 885	323
609 238	143	626 598	253
609 294	244	627 002	91
609 310	43	627 047	254
609 526	245	627 183	92
609 730	317	627 385	93
609 832	79	628 049	170
610 095	144	628 758	94
610 635	282	628 983	95
610 758	44	629 155	147
611 004	318	629 476	171
611 555	80	629 515	51
612 623	81	629 768	52
612 955	283	630 113	255
613 270	319	630 129	256
613 311	145	630 172	53
613 358	167	630 652	324
613 529	45	631 272	257
614 597	46	631 512	258
615 459	82	631 528	286
616 113	284	632 244	148
616 389	246	633 103	149
617 132	168	633 373	150
617 713	83	633 579	259
617 929	285	633 775	151
618 041	47	633 892	152
618 157	48	633 963	172
618 471	146	634 004	325
618 532	49	634 042	326
618 941	84	634 090	153
620 030	320	634 234	260
620 142	247	635 221	54

AD Number	Page
635 571	96
635 584	173
635 799	261
635 898	55
637 595	317
637 693	212
639 101	7
639 200	5
639 695	93
639 837	154
640 320	99
640 374	328
640 402	263
641 076	227
641 116	110
641 304	174
641 666	234
641 716	111
641 911	215
642 128	215
642 346	229
642 657	283
643 025	267
643 741	112
643 854	115
645 679	289
645 876	57
646 573	103
646 797	115
647 872	268
647 955	269
648 138	3
648 536	104
648 572	330
649 629	311
650 074	332
650 735	333
650 806	270
651 113	290
651 707	157
652 866	334
653 226	291
653 837	271
654 716	115
654 987	106

UNCLASSIFIED-UNLIMITED

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14 KEY WORDS	LINK A		LINK B		LINK C	
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