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AD-677 035

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**BIBLIOGRAPHY OF BIBLIOGRAPHIES
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(Supplement to AD-410 397)

VOLUME VIII of VIII VOLUMES

DDC-TAS-68-44

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SEPTEMBER 1968



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AD-677 035

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BIBLIOGRAPHY OF BIBLIOGRAPHIES
IN THE DDC COLLECTION

(Supplement to AD-410 397)

Volume VIII of VIII Volumes

DDC-TAS-68-44

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SEPTEMBER 1968

DEFENSE DOCUMENTATION CENTER
for
SCIENTIFIC AND TECHNICAL INFORMATION
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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

P R E F A C E

This is the eighth volume of a series of Bibliography of Bibliographies in the collection of the Defense Documentation Center. This volume continues the supplement to AD-410 397 and contains approximately 291 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

AD-677 025 Volume VII- Unclassified-Unlimited entries falling into COSATI fields 7-13

The bibliographic citations in Volume VIII are arranged in 9 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 (8 volumes) contains approximately 2300 entries covering all 22 COSATI subject categories.

A description of each index 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 referenced 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 49(638)-1348
Graduate Aeronautical Labs Calif
Inst of Tech Pasadena
(AFOSR-65-2019)
F AD-627 901

SUBJECT INDEX

Asterisked descriptors that identify the most significant subjects of the report are arranged alphabetically in the Subject Index. These descriptors may or may not have a modifying descriptor appearing directly below them. Under each descriptor entry appear the annotation and AD number. For example:

*Damping
Bibliographies
Bibliography and Abstracts on Methods of
Damping out Incipient Turbulence in Flow of
Liquids.
AD-427 728

CORPORATE AUTHOR-MONITORING AGENCY INDEX

Corporate authors and monitoring agencies are arranged alphabetically in the index. 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:

*Naval Ordnance Lab White Oak MD
* * *
Mathematics Dept-M-65
The Water Entry Problem With Bibliography
AD-641 176
* * *
NOLTR-64-222
U.S. Naval Ordnance Laboratory
Unclassified Reports Published by the
Aeroballistics Area
AD-614 700
* * *
NOLTR-66-173
The Water Entry Problem With Bibliography
AD-641 176

Three asterisks separate entries for reports by 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:

*Blau, Edmund J.
* * *
Geophysical Effects of High-Altitude
Nuclear Explosions of 1962, An annotated
Bibliography
AD-607 982
* * *
Relativistic Effect on the Classical Doppler
Shift: An Annotated Bibliography
AD-641 504

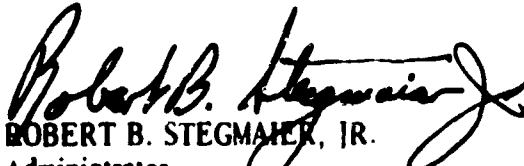
REPORT NUMBER INDEX

The Report Number Index lists identifying numbers assigned either by the document originators or by the sponsors of the work described in the documents.

AFCRL-67-0223
AD-655 774

BY ORDER OF THE DIRECTOR, DEFENSE SUPPLY AGENCY

OFFICIAL


ROBERT B. STEGMAIER, JR.
Administrator
Defense Documentation Center

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Physics	133
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REPORT NUMBER	R-1
AD NUMERIC	A-1

METHODS AND EQUIPMENT

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-402 910

NAVAL RESEARCH LAB WASHINGTON D C

BIBLIOGRAPHY OF UNCLASSIFIED NRL FORMAL REPORTS

NUMBERS 1000 TO 5700.

(U)

JUL 62 145P

REPT. NO. NRL-57008

UNCLASSIFIED REPORT

DESCRIPTORS: *BIBLIOGRAPHIES, *NAVAL RESEARCH
LABORATORIES, NAVAL RESEARCH.

(U)

A BIBLIOGRAPHY OF UNCLASSIFIED NRL FORMAL REPORTS,
NUMBERS 1000-5700.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-406 608

TEXAS UNIV AUSTIN ELECTRICAL ENGINEERING RESEARCH
LAB

BIBLIOGRAPHY OF TECHNICAL REPORTS, PUBLICATIONS, AND
THESES - MARCH 1961-JUNE 1963. (U)

JUN 63 20P

REPT. NO. 131

CONTRACT: NONR375 14, PROJ. NR371 032

UNCLASSIFIED REPORT

DESCRIPTORS: (*BIBLIOGRAPHIES, SCIENTIFIC
RESEARCH, (*SCIENTIFIC RESEARCH, BIBLIOGRAPH
IES), ELECTRICAL ENGINEERING, REPORTS, ELEC
TRONICS, METEOROLOGY, ANTENNAS, PHYSICS,
PROPAGATION, SIGNALS. (U)

IDENTIFIERS: 1963. (U)

BIBLIOGRAPHY OF TECHNICAL REPORTS, PUBLICATIONS AND THESES
OF THE ELECTRICAL ENGINEERING RESEARCH LABORATORY
UNIVERSITY OF TEXAS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-410 397

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA
BIBLIOGRAPHY OF BIBLIOGRAPHIES (SUPPLEMENT),

(U)

IV A1

MONITOR: UNCLASSIFIED REPORT
UNCLASSIFIED REPORT

DESCRIPTORS: (•MATHEMATICS), (•AIRCRAFT),
(•ASTRONOMY), (•BIBLIOGRAPHIES), GEOPHYSICS,
GEOGRAPHY, CHEMICAL WARFARE, BIOLOGICAL WARFARE,
CHEMISTRY, COMMUNICATION SYSTEMS, DETECTION,
ELECTRONIC EQUIPMENT, ELECTRICAL EQUIPMENT,
FLUID MECHANICS, FUELS, TRANSPORTATION, GUIDED
MISSILES, MATERIALS, MEDICINE, METALLURGY,
MILITARY TACTICS, NAVIGATION, NUCLEAR PHYSICS,
NUCLEAR PROPULSION, ORDNANCE, PERSONNEL,
PHOTOGRAPHY, PHYSICS, PSYCHOLOGY, SCIENTIFIC
RESEARCH, SHIPS, PROPELLANTS

(U)

A LIST OF BIBLIOGRAPHIES CATALOGED BY DDC FROM
JULY 1962 THROUGH JULY 1963 WAS UNDERTAKEN IN
ORDER TO PROVIDE AN UP-TO-DATE COMPILATION OF
EXISTING KNOWLEDGE ON SUBJECTS OF RESEARCH AND
DEVELOPMENT INTEREST. THIS VOLUME IS A SUPPLEMENT
TO AD-281 900, PUBLISHED JULY 1962, AND IS
RESTRICTED TO UNLIMITED UNCLASSIFIED REFERENCES.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-412 658

AEROSPACE CORP EL SEGUNDO CALIF

QUARTERLY BIBLIOGRAPHY OF REPORTS PREPARED UNDER
CONTRACT NO. AF04(695)-169 (PERIOD COVERING 1

APRIL THROUGH 30 JUNE 1963),

(U)

JUL 63 IV PEER, COMP. BY BARBARA H. I

REPT. NO. REPT. NO. CSR169 999028R4

CONTRACT: AF04 695 169

UNCLASSIFIED REPORT

DESCRIPTORS: (AIR FORCE RESEARCH, BIBLIOG
RAPHIES), (REPORTS, BIBLIOGRAPHIES),
RESEARCH PROGRAM ADMINISTRATION.

(U)

THIS BIBLIOGRAPHY LISTS ALL REPORTS PUBLISHED
DURING THE PERIOD 1 APRIL THROUGH 30 JUNE 1963
UNDER CONTRACT AF 04(695)-169.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-414 066

NATIONAL INSTITUTES OF HEALTH BETHESDA MD
DESIGN OF LABORATORY FACILITIES. A CLASSIFIED LIST
OF SELECTED REFERENCES, SUPPLEMENT 1. 1949-1963. (U)
JUL 63 6P FOX, COMP. BY GERTRUDE I

UNCLASSIFIED REPORT

DESCRIPTORS: (MEDICAL LABORATORIES, DESIGN),
(BIBLIOGRAPHIES, MEDICAL LABORATORIES),
HOSPITALS, SITE SELECTION, RADIOBIOLOGY,
RADIATION CHEMISTRY, INDUSTRIAL RESEARCH. (U)

A SELECTED LIST OF REFERENCES ON THE DESIGN OF LABORATORY
FACILITIES.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-421 564

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA
NON-DESTRUCTIVE TESTING. A DDC REPORT
BIBLIOGRAPHY.

(U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR 1953-SEP 1963,
SEP 63 IV HALL, ELIZABETH H. I

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*NON-DESTRUCTIVE TESTING,
BIBLIOGRAPHIES), (*RADIOGRAPHY, NON-
DESTRUCTIVE TESTING), ULTRASONIC RADIATION,
ACOUSTICS, MAGNETIC PROPERTIES, ELECTROMAGNETIC
PROPERTIES, DYES, PENETRATION, THERMAL
RADIATION, QUALITY CONTROL

(U)

IDENTIFIERS: 1963

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-421 845

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA
SHOCK AND VIBRATION, DATA ANALYSIS AND APPLICATIONS.
A DDC REPORT BIBLIOGRAPHY. (U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR 1953-OCT 63,
NOV 63 IV HERCULES, WENDELL L. I

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ENVIRONMENTAL TESTS, STANDARDIZATION),
(VIBRATION, STATISTICAL ANALYSIS), (BIBLIOGRAPHIES,
VIBRATION), IMPACT SHOCK, DATA PROCESSING SYSTEMS,
DIGITAL COMPUTERS, CORRELATION TECHNIQUES, HARMONIC
ANALYSIS, SYMPOSIA (U)
IDENTIFIERS: 1963, POWER DENSITY SPECTRUM (U)

THIS BIBLIOGRAPHY WAS PREPARED IN RESPONSE TO A
REQUEST BY THE CENTRALIZING ACTIVITY FOR SHOCK,
VIBRATION AND ASSOCIATED ENVIRONMENTS IN
CONNECTION WITH THE 33RD SYMPOSIUM DEC 3-5, 1963.
REFERENCES FALL WITHIN THE FOLLOWING BROAD TOPIC
AREAS: STATISTICAL ANALYSIS, DATA ANALYSIS/EQUIPMENT,
DATA ANALYSIS - COMPUTERS, DATA MEASUREMENT, SHOCK
AND VIBRATION DATA, AND TESTING. THE BIBLIOGRAPHY
COVERS THE TIME PERIOD 1953 TO OCT. 1963 WITH
PARTICULAR EMPHASIS PLACED ON DOCUMENTS ACCESSIONED
BY DDC SINCE 1958. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-429 227

CALIFORNIA UNIV BERKELEY

RESEARCH INVESTIGATIONS CONDUCTED UNDER THE
PROVISIONS OF CONTRACT NONR22267, PROJECT NRO36 031.(U)

DESCRIPTIVE NOTE: FINAL SUMMARY REPT.,

DEC 63 13P CORNET, I. I

REPT. NO. 8

CONTRACT: NONR22267

PROJ: NRO36 041

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (SCIENTIFIC RESEARCH, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, SCIENTIFIC RESEARCH), (FATIGUE
(MECHANICS), ABSTRACTS), (CORROSION, ABSTRACTS),
SINGLE CRYSTALS, MAGNESIUM COMPOUNDS, OXIDES,
DEFORMATION, ELECTRON MICROSCOPY, MECHANICS, COPPER,
PIPES, ALUMINUM, CORROSIVE LIQUIDS, LAMINAR FLOW,
TEMPERATURE, METALLURGY, DEFLECTION, ELECTROCHEMISTRY(U)
IDENTIFIERS: 1963 (U)

ABSTRACTS OF REPORTS OF RESEARCH ON FATIGUE MECHANICS AND
CORROSION.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-433 614

AEROSPACE CORP EL SEGUNDO CALIF

BIBLIOGRAPHY ON THE USE OF REDUNDANCY AS A MEANS OF
IMPROVING RELIABILITY. (U)

JAN 64 34P HEAD, J. G. THOMPSON, R. J. I

REPT. NO. TDR269 4303 6

CONTRACT: AFO4 695 269

MONITOR: SSD TDR63 375

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, RELIABILITY
(ELECTRONICS)), (RELIABILITY (ELECTRONICS),
BIBLIOGRAPHIES), ELECTRONIC EQUIPMENT, REDUNDANT
COMPONENTS, DIGITAL SYSTEMS, COMPUTERS, QUALITY
CONTROL (U)

IDENTIFIERS: 1964 (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-457 110

BATTELLE MEMORIAL INST COLUMBUS OHIO
WATER TUNNEL DESIGN AND RELATED INSTRUMENTATION
CONSIDERATIONS AND A SELECTED BIBLIOGRAPHY ON
INCOMPRESSIBLE INTERNAL FLUID FLOW.

(U)

NOV 64 SSP HARP, J. L. INOEHNE, V.

O. ALLEN, J. M. WHITACRE, G. R. I

CONTRACT: DA01 021AMC203Z

MONITOR: RSIC 328

UNCLASSIFIED REPORT

DESCRIPTORS: (WATER TUNNELS, DESIGN),
(INCOMPRESSIBLE FLOW, WATER TUNNELS),
INSTRUMENTATION, MEASUREMENT, FLOW VISUALIZATION,
TWO-DIMENSIONAL FLOW, HYDRAULIC MODELS, PUMPS, HEAT
EXCHANGERS, WATER, LIQUEFIED GASES, NITROGEN, REVIEWS,
BIBLIOGRAPHIES, CRYOGENICS, FEASIBILITY STUDIES, ARMY
RESEARCH, HYDRODYNAMICS (U)

THIS REPORT PRESENTS THE RESULTS OF A STATE-OF-THE-ART SURVEY ON FLOW-TUNNEL DESIGN AND RELATED INSTRUMENTATION FOR TUNNELS USING WATER OR LIQUID NITROGEN AS THE WORKING FLUID. THE SCOPE OF THE SURVEY IS PURPOSELY NARROWED BY CONSIDERATIONS OF THE PROPOSED TUNNEL TO BE DESIGNED AND BUILT AT NASA'S GEORGE C. MARSHALL SPACE FLIGHT CENTER (MSFC). INITIAL APPLICATION OF THE PROPOSED TUNNEL WILL INCLUDE INTERNAL-FLUID-FLOW STUDIES OF CRYOGENIC FUEL-SYSTEM COMPONENTS OR COMBINATIONS THEREOF. MAJOR CONSIDERATIONS APPLICABLE TO THE PRINCIPAL COMPONENTS OF THE PROPOSED TUNNEL ARE PRESENTED. SOME SPECIFIC RECOMMENDATIONS ARE ALSO PRESENTED FOR CONSIDERATION BY THOSE WHO WILL UNDERTAKE THE ACTUAL DESIGN AND OPERATION OF THE PROPOSED TUNNEL. LITERATURE CITED IS LISTED AT THE END OF THE REPORT FOR FURTHER DETAILED STUDY. MANY OF THESE REFERENCES ARE, IN THEMSELVES, DESIGN STUDIES FOR LIQUIDFLOW TUNNELS OR FLOW-TUNNEL SECTIONS. ALSO INCLUDED IS A SELECTED BIBLIOGRAPHY ON INTERNAL FLUID FLOW, WITH A BRIEF DESCRIPTION OF EACH. THE CATEGORIES INCLUDED ARE PRESSURE DROP; FLOW PATTERNS INCLUDING CURVED FLOWS, MIXING, AND FLOW MEASUREMENT; VISUALIZATION INCLUDING FLOW MODELING, CAVITATION, AND TRANSIENTS; FLOW OF CRYOGENIC FLUIDS; AND TWO-PHASE FLOW. (AUTHOR)

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-462 687

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
HIGH VACUUM TECHNIQUES. (U)

DESCRIPTIVE NOTE: SPECIAL BIBLIOGRAPHY,

OCT 59 3P CARROLL, K. D. I

REPT. NO. SB-59-48

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SUPPLEMENTARY NOTE:

DESCRIPTORS: (•VACUUM, BIBLIOGRAPHIES);
(•BIBLIOGRAPHIES, VACUUM), MEASUREMENT, EVAPORATION,
SURFACE PROPERTIES, VACUUM APPARATUS (U)

IDENTIFIERS: HIGH VACUUM, ULTRAHIGH VACUUM (U)

HIGH VACUUM TECHNIQUES.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-462 690

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
COMBINED ENVIRONMENTAL TESTING, (U)
DESCRIPTIVE NOTE: SPECIAL BIBLIOGRAPHY,
FEB 60 10P EVANS, G. R. I
REF. NO. SB-60-7

UNCLASSIFIED REPORT
AVAILABILITY: MICROFICHE ONLY AFTER ORIGINAL COPIES
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SUPPLEMENTARY NOTE:

DESCRIPTORS: (•ENVIRONMENTAL TESTS, BIBLIOGRAPHIES),
(•GUIDED MISSILES, ENVIRONMENTAL TESTS), (•ELECTRONIC
EQUIPMENT, GUIDED MISSILE COMPONENTS), ABSTRACTING,
DOCUMENTATION (U)

BIBLIOGRAPHY ON COMBINED ENVIRONMENTAL TESTING, RELATING
CHIEFLY TO GUIDED MISSILES AND THEIR ELECTRONIC
EQUIPMENT.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-462 692

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

(U)

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

UNCLASSIFIED REPORT

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SUPPLEMENTARY NOTE:

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

(U)

BIBLIOGRAPHY ON HIGH-TEMPERATURE STRAIN GAGES.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-468 834

NAVAL PERSONNEL RESEARCH ACTIVITY SAN DIEGO CALIF
A SELECTED ANNOTATED BIBLIOGRAPHY ON COST-
EFFECTIVENESS AND MAN/MACHINE FUNCTION
ALLOCATION.

(U)

DESCRIPTIVE NOTE: RESEARCH MEMO.,
AUG 65 39P WEBB, J. SCOTT I
REPT. NO. SRM-66-4

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•COSTS, EFFECTIVENESS),
(•SYSTEMS ENGINEERING, BIBLIOGRAPHIES),
(•BIBLIOGRAPHIES, SYSTEMS ENGINEERING),
MILITARY PERSONNEL, PERSONNEL MANAGEMENT, HUMAN
ENGINEERING, AUTOMATION

(U)

THIS BIBLIOGRAPHY INCLUDES THE REFERENCES AND
SUMMARIES OF OVER 100 PUBLICATIONS PERTAINING TO
SYSTEM COSTS, SYSTEM EFFECTIVENESS, COST-
EFFECTIVENESS RATIOS, AND MAN/MACHINE FUNCTION
ALLOCATION. (AUTHOR)

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-601 292

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D

C
REFERENCES PERTAINING TO MOISTURE SENSING
DEVICES.

(U)

JUN 64 JOP LEE, RICHARD W. H. I
REPT. NO. 562 025 , PDL43969

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, HYGROMETERS),
(*HYGROMETERS, BIBLIOGRAPHIES), HUMIDITY, MOISTURE,
CONTROLLED ATMOSPHERES, ELECTRICAL EQUIPMENT

(U)

A BIBLIOGRAPHY INCLUDING 60 REFERENCES PERTAINING
TO MOISTURE-SENSING DEVICES IS PRESENTED.

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-602 241

AEROSPACE CORP EL SEGUNDO CALIF
PROFESSIONAL PAPERS CLEARED FOR POSSIBLE PUBLICATION
AND/OR PRESENTATION. (U)

DESCRIPTIVE NOTE: REPT. FOR 16 JUN 63-15 JUN 64,
JUN 64 86P BRADY, FRANCES A. I

REPT. NO. CSR-269 9990APP1 SUPERSEDES ,CSR-269
9990PP1-PP11

CONTRACT: AFO4 695 269

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BIBLIOGRAPHIES, •SCIENTIFIC
RESEARCH), REPORTS, PHYSICS, CHEMISTRY,
MATHEMATICS, ENGINEERING, MINING ENGINEERING,
AERONAUTICS, SPACE FLIGHT, METALLURGY,
GEOLOGY (U)

THE BIBLIOGRAPHY IS AN INTEGRATION OF THE PREVIOUS
BIBLIOGRAPHIES TOGETHER WITH ADDITIONS, AND IS
COMPRISED OF A LISTING OF ALL PROFESSIONAL PAPERS
CLEARED AT AEROSPACE CORPORATION FOR THE PERIOD
16 JUNE 1963 THROUGH 15 JUNE 1964. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-606 181

SYSTEM DEVELOPMENT CORP SANTA MONICA CALIF
SDC DOCUMENTS APPLICABLE TO STATE AND LOCAL
GOVERNMENT PROBLEMS. (U)

DESCRIPTIVE NOTE: SCIENTIFIC REPT.,

AUG 64 10P ISAACS, HERBERT H. I
REPT. NO. TM-2025

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SYSTEMS ENGINEERING, BIBLIOGRAPHIES),
(*INDEXES, OPERATIONS RESEARCH), (*BIBLIOGRAPHIES,
SYSTEMS ENGINEERING), (*SOCIOLOGY, SYSTEMS
ENGINEERING), DOCUMENTATION, UNITED STATES GOVERNMENT,
MEDICAL RESEARCH, PROGRAMMING (COMPUTERS), EDUCATION,
TRAINING, URBAN PLANNING, SIMULATION, INFORMATION
RETRIEVAL, LAW, COMPUTERS, MANAGEMENT ENGINEERING (U)

THIS DOCUMENT CONTAINS A SELECTIVE LIST OF SDC
PUBLICATIONS AVAILABLE TO EXTERNAL REQUESTERS. THE
DOCUMENTS ON THIS LIST WERE SELECTED ON THE BASIS OF
THEIR GENERAL OR SPECIFIC APPLICABILITY TO CURRENT
PROBLEMS OF STATE AND LOCAL GOVERNMENT. WORK OF A
MORE BASIC RESEARCH NATURE HAS BEEN OMITTED. THE
LIST IS ORGANIZED BY SUBSTANTIVE CATEGORIES AND
ALPHABETICALLY BY AUTHOR WITHIN EACH CATEGORY. THE
CATEGORIES INCLUDE: THE ADMINISTRATION OF JUSTICE,
BIO-MEDICAL SYSTEMS, COMPUTER PROGRAM SYSTEMS, THE
DEVELOPMENT AND MANAGEMENT OF COMPUTER-BASED SYSTEMS,
EDUCATION AND TRAINING, INFORMATION RETRIEVAL,
SIMULATION IN EXPERIMENTATION, AND URBAN INFORMATION
SYSTEMS. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-607 539

MASSACHUSETTS INST OF TECH LEXINGTON LINCOLN LAB

UNCLASSIFIED PUBLICATIONS OF LINCOLN LABORATORY, (U)

MAR 64 210P

CONTRACT: AF19 628 500

MONITOR: ESD , YDR64 340

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, SCIENTIFIC RESEARCH),
(*SCIENTIFIC RESEARCH, BIBLIOGRAPHIES), (*PHYSICS
LABORATORIES, SCIENTIFIC RESEARCH), REPORTS, DATA
PROCESSING SYSTEMS, PHYSICS, RADAR, INFORMATION
RETRIEVAL, SPACE COMMUNICATION SYSTEMS, ENGINEERING,
SOLID STATE PHYSICS, REENTRY VEHICLES, INDEXES,
ELECTRONICS, MAGNETIC MATERIALS, SEMICONDUCTOR
DEVICES, LASERS, MATHEMATICAL ANALYSIS, ATMOSPHERE
ENTRY, MATERIALS (U)

THE REPORT IS A NEW CUMULATIVE LISTING OF
UNCLASSIFIED REPORTS PUBLISHED SINCE THE LABORATORY
WAS ESTABLISHED IN 1961. THE 18 JULY 1961
EDITION OF UNCLASSIFIED PUBLICATIONS, AS WELL AS
SUPPLEMENTS 1, 2, AND 3, MAY NOW BE DESTROYED.
A SUBJECT INDEX, INCLUDED FOR THE FIRST TIME IN
THIS EDITION, SHOULD PROVE A VALUABLE AID TO THE
READER. PROGRESS REPORTS, TECHNICAL REPORTS
AND GROUP REPORTS LISTED HEREIN ARE DEPOSITED
WITH DDC. OUT-OF-PRINT UNCLASSIFIED (RELEASED)
REPORTS ARE AVAILABLE, AS MICROFILM OR PHOTOPRINT
COPIES, FROM THE MICROREPRODUCTION LABORATORY,
HAYDEN MEMORIAL LIBRARY, MASSACHUSETTS
INSTITUTE OF TECHNOLOGY, CAMBRIDGE,
MASSACHUSETTS 02139. REQUESTS SHOULD CITE THE
APPROPRIATE SERIAL NUMBERS AND PRICES. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-607 549

TRW SPACE TECHNOLOGY LABS LOS ANGELES CALIF

CIRCUIT DESIGN RELIABILITY THROUGH REDUNDANCY, (U)

AUG 60 JIP TREW, JAMES R. I

REPT. NO. STL/AB 60-5111-38 , STL-D-38

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPT. ON A LITERATURE SURVEY OF
UNCLASSIFIED REPORTS.

DESCRIPTORS: (BIBLIOGRAPHIES, RELIABILITY
(ELECTRONICS), (RELIABILITY (ELECTRONICS), REDUNDANT
COMPONENTS), CIRCUITS, DESIGN, ABSTRACTS, REVIEWS (U)

A COMPILATION OF ABSTRACTS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-608 053

JOHNS HOPKINS UNIV SILVER SPRING MD APPLIED PHYSICS
LAB

GUIDE TO THE LITERATURE OF ENGINEERING, MATHEMATICS,
AND THE PHYSICAL SCIENCES. (U)

DESCRIPTIVE NOTE: SECOND ED.

90P GOLDMAN, SYLVIA I

REPT. NO. TG-230-B3

CONTRACT: NON62 0604C

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ENGINEERING, BIBLIOGRAPHIES),
(MATHEMATICS BIBLIOGRAPHIES), (PHYSICS,
BIBLIOGRAPHIES), (BIBLIOGRAPHIES, SCIENTIFIC
RESEARCH), AERONAUTICS, ASTRONAUTICS, CHEMICAL
ENGINEERING, MECHANICAL ENGINEERING, ELECTRONICS,
ELECTRICAL ENGINEERING, COMPUTERS, ASTRONOMY,
GEOPHYSICS, ACOUSTICS, BALLISTICS, FLUID MECHANICS (U)

THE SECOND EDITION IS A SELECTED BIBLIOGRAPHY WHICH
EMPHASIZES THE AREAS OF SCIENCE AND ENGINEERING OF
PRIMARY IMPORTANCE TO STAFF MEMBERS OF THE APPLIED
PHYSICS LABORATORY. THE FIRST EDITION INCLUDED
MATERIAL PUBLISHED FROM 1953 THROUGH 1959. THE
SECOND EDITION UPDATES THE MATERIAL THROUGH 1963.
THE ABSTRACTING JOURNALS AND INDEXES ARE LISTED
ALPHABETICALLY BY TITLE. PERIODICALS ARE ARRANGED
BY SUBJECT AND LISTED ALPHABETICALLY BY TITLE IN EACH
SUBJECT CATEGORY. IN EVERY CASE, THE DATE OF THE
FIRST ISSUE AND PUBLISHER IS INCLUDED IN THE
CITATION. REFERENCE WORKS ARE ORGANIZED NOT BY
SUBJECT BUT BY TYPE OF MATERIALS, SUCH AS
DICTIONARIES AND GLOSSARIES, ENCYCLOPEDIAS, HANDBOOKS
AND MANUALS, AND MATHEMATICAL TABLES. ITEMS ARE
LISTED ALPHABETICALLY BY AUTHOR. CITATIONS INCLUDE
AUTHOR, TITLE, EDITION, PLACE, PUBLISHER, AND DATE OF
PUBLICATION. GENERAL BOOKS ARE ORGANIZED BY
SUBJECT AND LISTED ALPHABETICALLY BY AUTHOR, WITH THE
SAME BIBLIOGRAPHIC INFORMATION AS IS CITED FOR
REFERENCE MATERIALS. THE AUTHOR INDEX, A NEW
FEATURE IN THE SECOND EDITION, IS INCLUDED TO
FACILITATE THE USE OF THE BIBLIOGRAPHY. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000342

AD-609 226

AERONAUTICAL CHART AND INFORMATION CENTER ST LOUIS MO
CATALOG OF PUBLICATIONS. (U)

DESCRIPTIVE NOTE: EDITION NO. 4.

NOV 64 14P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: EXCLUSIVE OF CHARTS, FLIGHT
INFORMATION PUBLICATIONS, AND RELATED
SPECIFICATIONS.

DESCRIPTORS: (*BIBLIOGRAPHIES, *SCIENTIFIC
RESEARCH), (*MAPPING, BIBLIOGRAPHIES),
CATALOGS, AERONAUTICS, MAPS, GEODESICS,
SATELLITES(ARTIFICIAL), PHOTOGRAPHY,
COATINGS, PROCESSING, REPORTS (U)

CATALOG OF PUBLICATIONS: BIBLIOGRAPHY ON MISCELLANEOUS
RESEARCH.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-609 252

MARTIN CO ORLANDO FLA

TECHNICAL WRITING: A SELECTED BIBLIOGRAPHY, (U)

NOV 69 17P

MCCLURE, LUCILLE I

REPT. NO. RB-87

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (SCIENTIFIC RESEARCH), (REPORTS,
BIBLIOGRAPHIES), SOCIAL COMMUNICATION,
VOCABULARY, LANGUAGE, SPECIFICATIONS,
INSTRUCTION MANUALS, HANDBOOKS (U)
IDENTIFIERS: TECHNICAL WRITING (U)

TECHNICAL WRITING: A SELECTED BIBLIOGRAPHY.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-612 042

ARMY MATERIALS RESEARCH AGENCY WATERTOWN MASS

A REPORT GUIDE TO GAMMA RADIOGRAPHIC LITERATURE. (U)

DESCRIPTIVE NOTE: MONOGRAPH SERIES,

AUG 64 102P RODGERS, ERNEST M. IDER

BOGHOSIAN, SATRAK I

REPT. NO. AMRA-MS-64-11

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*RADIOGRAPHY, BIBLIOGRAPHIES),
(*NONDESTRUCTIVE TESTING, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, RADIOGRAPHY), (*MATERIALS, NON-
DESTRUCTIVE TESTING), REPORTS, ABSTRACTING, INDEXES,
ARMY RESEARCH, GAMMA RAYS, QUALITY CONTROL, METALS, X
RAYS, RADIOACTIVE ISOTOPES, TEST METHODS, TEST
EQUIPMENT (U)

THIS GUIDE CONSISTS OF A BIBLIOGRAPHY OF ITEMS
CURRENTLY IN THE AMRA NONDESTRUCTIVE TESTING
INFORMATION RETRIEVAL SYSTEM COVERING THE
SUBJECT OF GAMMA RADIOGRAPHY. WHERE AVAILABLE,
EACH ITEM IN THIS JOURNAL CONSISTS OF THE FOLLOWING
INFORMATION: (1) ITEM, REPORT, OR ARTICLE TITLE;
(2) AUTHOR OR AUTHORS; (3) SOURCE OR
FACILITY; (4) REPORT NUMBER OR IDENTIFICATION;
(5) DATE; AND (6) ABSTRACT. WORD
DESCRIPTORS PERTINENT TO EACH ITEM ARE LISTED IN
ALPHABETICAL ORDER AND ARE CROSS-REFERENCED BY THE
AMRA IDENTIFICATION NUMBER. ALSO PROVIDED IS AN
AUTHOR INDEX OR, IF NO AUTHOR IS AVAILABLE, THEN THE
ISSUING ORGANIZATION IS LISTED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-612 043

ARMY MATERIALS RESEARCH AGENCY WATERTOWN MASS

A REPORT GUIDE TO THERMAL TESTING LITERATURE. (U)

DESCRIPTIVE NOTE; MONOGRAPH SERIES,

AUG 64 47P HERNID, CHARLES P. I

RODGERS, ERNEST H. I

REPT. NO. AMRA-MS-64-14

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (NON-DESTRUCTIVE TESTING, BIBLIOGRAPHIES), (MATERIALS, NON-DESTRUCTIVE TESTING), (BIBLIOGRAPHIES, NON-DESTRUCTIVE TESTING), TEMPERATURE, REPORTS, ABSTRACTING, INDEXES, ARMY RESEARCH, INFRARED RADIATION, ULTRASONIC RADIATION, TEMPERATURE SENSITIVE ELEMENTS, METALS, THERMAL PROPERTIES, TEST METHODS, TEST EQUIPMENT (U)

THIS GUIDE CONSISTS OF A BIBLIOGRAPHY OF ITEMS CURRENTLY IN THE AMRA NONDESTRUCTIVE TESTING INFORMATION RETRIEVAL SYSTEM COVERING THE SUBJECT OF THERMAL TESTING. WHERE AVAILABLE, EACH ITEM IN THIS JOURNAL CONSISTS OF THE FOLLOWING INFORMATION: (1) ITEM, REPORT, OR ARTICLE TITLE; (2) AUTHOR OR AUTHORS; (3) SOURCE OR FACILITY; (4) REPORT NUMBER OR IDENTIFICATION; (5) DATE; AND (6) ABSTRACT. WORD DESCRIPTORS PERTINENT TO EACH ITEM ARE LISTED IN ALPHABETICAL ORDER AND ARE CROSS-REFERENCED BY THE AMRA IDENTIFICATION NUMBER. ALSO PROVIDED IS AN AUTHOR INDEX OR, IF NO AUTHOR IS AVAILABLE, THEN THE ISSUING ORGANIZATION IS LISTED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-612 044

ARMY MATERIALS RESEARCH AGENCY WATERTOWN MASS
A REPORT GUIDE TO LIQUID PENETRANT LITERATURE.

(U)

DESCRIPTIVE NOTE: MONOGRAPH SERIES,

AUG 64 36P RODGERS, ERNEST M. I

HERMID, CHARLES P. I

REPT. NO. AMRA-MS-64-12

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*NON-DESTRUCTIVE TESTING,
BIBLIOGRAPHIES), (*BIBLIOGRAPHIES, NON-DESTRUCTIVE
TESTING), (*MATERIALS, NON-DESTRUCTIVE TESTING),
LIQUIDS, PENETRATION, REPORTS, ABSTRACTING, INDEXES,
ARMY RESEARCH, METALS, DYES, TEST EQUIPMENT, TEST
METHODS, MAGNETIC PROPERTIES, ULTRASONIC RADIATION (U)

THIS GUIDE CONSISTS OF A BIBLIOGRAPHY OF ITEMS
CURRENTLY IN THE AMRA NONDESTRUCTIVE TESTING
INFORMATION RETRIEVAL SYSTEM COVERING THE
SUBJECT OF LIQUID PENETRANTS. WHERE AVAILABLE,
EACH ITEM IN THIS JOURNAL CONSISTS OF THE FOLLOWING
INFORMATION: (1) ITEM REPORT, OR ARTICLE TITLE;
(2) AUTHOR OR AUTHORS; (3) SOURCE OR
FACILITY; (4) REPORT NUMBER OR IDENTIFICATION;
(5) DATE; AND (6) ABSTRACT. WORD
DESCRIPTORS PERTINENT TO EACH ITEM ARE LISTED IN
ALPHABETICAL ORDER AND ARE CROSS-REFERENCED BY THE
AMRA IDENTIFICATION NUMBER. ALSO PROVIDED IS AN
AUTHOR INDEX OR, IF NO AUTHOR IS AVAILABLE, THEN THE
ISSUING ORGANIZATION IS LISTED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-612 045

ARMY MATERIALS RESEARCH AGENCY WATERTOWN MASS
A REPORT GUIDE TO LITERATURE IN THE FIELDS OF
FLUOROSCOPY AND REMOTE VIEWING TECHNIQUES. (U)

DESCRIPTIVE NOTE; MONOGRAPH SERIES,

AUG 64 43P MERHIB, CHARLES P. ; DER

BOGHOSIAN, SATRAK I

REPT. NO. AMRA-MS-64-13

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*NON-DESTRUCTIVE TESTING,
BIBLIOGRAPHIES), (*BIBLIOGRAPHIES, NON-DESTRUCTIVE
TESTING), (*MATERIALS, NON-DESTRUCTIVE TESTING),
(*FLUOROSCOPES, NONDESTRUCTIVE TESTING), REPORTS,
ABSTRACTING, INDEXES, ARMY RESEARCH, RADIOGRAPHY,
METALS, TEST METHODS, TEST EQUIPMENT, IMAGE TUBES (U)

THIS GUIDE CONSISTS OF A BIBLIOGRAPHY OF ITEMS
CURRENTLY IN THE AMRA NONDESTRUCTIVE TESTING
INFORMATION RETRIEVAL SYSTEM COVERING THE
SUBJECT OF FLUOROSCOPY AND REMOTE VIEWING TECHNIQUES.
WHERE AVAILABLE, EACH ITEM IN THIS JOURNAL CONSISTS
OF THE FOLLOWING INFORMATION: (1) ITEM, REPORT OR
ARTICLE TITLE; (2) AUTHOR OR AUTHORS; (3)
SOURCE OR FACILITY; (4) REPORT NUMBER OR
IDENTIFICATION; (5) DATE; AND (6) ABSTRACT.
WORD DESCRIPTORS PERTINENT TO EACH ITEM ARE LISTED
IN ALPHABETICAL ORDER AND ARE CROSSREFERENCED BY THE
AMRA IDENTIFICATION NUMBER. ALSO PROVIDED IS AN
AUTHOR INDEX OR, IF NO AUTHOR IS AVAILABLE, THEN THE
ISSUING ORGANIZATION IS LISTED. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-612 047

ARMY MATERIALS RESEARCH AGENCY WATERTOWN MASS
A REPORT GUIDE TO AUTORADIOGRAPHIC AND
MICRORADIOGRAPHIC LITERATURE.

(U)

DESCRIPTIVE NOTE: MONOGRAPH SERIES,

AUG 64 32P RODGERS, ERNEST H. I

REPT. NO. MS-64-10

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•NON-DESTRUCTIVE TESTING,
BIBLIOGRAPHIES), (•BIBLIOGRAPHIES, NON-DESTRUCTIVE
TESTING), (•MATERIALS, NON-DESTRUCTIVE TESTING),
(•RADIOGRAPHY, NON-DESTRUCTIVE TESTING),
AUTORADIOGRAPHY, REPORTS, ABSTRACTING, INDEXES, ARMY
RESEARCH, METALS, RADIOACTIVE ISOTOPES, METALLOGRAPHY,
TEST METHODS, TEST EQUIPMENT (U)

THIS GUIDE CONSISTS OF A BIBLIOGRAPHY OF ITEMS
CURRENTLY IN THE AMRA NONDESTRUCTIVE TESTING
INFORMATION RETRIEVAL SYSTEM COVERING THE
SUBJECTS OF AUTORADIOGRAPHY AND MICRORADIOGRAPHY.
WHERE AVAILABLE, EACH ITEM IN THIS JOURNAL CONSISTS
OF THE FOLLOWING INFORMATION: (1) ITEM REPORT, OR
ARTICLE TITLE, (2) AUTHOR OR AUTHORS, (3)
SOURCE OR FACILITY, (4) REPORT NUMBER OR
IDENTIFICATION, (5) DATE, AND (6) ABSTRACT.
WORD DESCRIPTORS PERTINENT TO EACH ITEM ARE LISTED
IN ALPHABETICAL ORDER AND ARE CROSS-REFERENCED BY THE
AMRA IDENTIFICATION NUMBER. ALSO PROVIDED IS AN
AUTHOR INDEX OR, IF NO AUTHOR IS AVAILABLE, THEN THE
ISSUING ORGANIZATION IS LISTED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-614 700

NAVAL ORDNANCE LAB WHITE OAK MD

U. S. NAVAL ORDNANCE LABORATORY UNCLASSIFIED REPORTS
PUBLISHED BY THE AEROBALLISTICS AREA. (U)

DESCRIPTIVE NOTE: FINAL REPT. FOR 1 OCT 45-31 DEC 62,

NOV 64 96P THOMPSON, BETTY M. I

REPT. NO. NOLTR-64-222

PROJ: 600 0100

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (NAVAL RESEARCH, REPORTS), (REPORTS,
NAVAL RESEARCH LABORATORIES), BALLISTICS, INDEXES,
ABSTRACTING, BIBLIOGRAPHIES, FLUID MECHANICS, ORDNANCE(U)

A LIST OF ALL NAVAL ORDNANCE LABORATORY
UNCLASSIFIED REPORTS PUBLISHED BY THE
AEROBALLISTICS AREA DURING THE PERIOD 1 OCTOBER
1945 THROUGH 31 DECEMBER 1962 IS PRESENTED.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-615 000

ARMY ELECTRONICS LABS FORT MONMOUTH N J
PUBLICATIONS, PRESENTATIONS AND PATENTS, 1964. (U)
DESCRIPTIVE NOTE; BIBLIOGRAPHY.
64 61P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ARMY RESEARCH, REPORTS),
(ELECTRONICS, REPORTS), ELECTRONICS LABORATORIES,
BIBLIOGRAPHIES, LASERS, ELECTRONIC EQUIPMENT, PATENTS(U)

THIS REPORT IS A COMPILATION OF UNCLASSIFIED
PUBLICATIONS, PRESENTATIONS AND PATENTS MADE DURING
THE CALENDAR YEAR 1964 TO CONSOLIDATE SOME OF THE
TECHNICAL CONTRIBUTIONS MADE BY USAEL PERSONNEL.
IT INCLUDES FOR THE FIRST TIME INTERNALLY GENERATED
UNCLASSIFIED TECHNICAL REPORTS. USAEL SPONSORED
SYMPOSIA ARE ALSO LISTED. PUBLICATIONS FROM
CONTRACTUALLY SUPPORTED RESEARCH PROGRAMS ARE NOT
INCLUDED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-618 391

MASSACHUSETTS INST OF TECH LEXINGTON LINCOLN LAB
UNCLASSIFIED PUBLICATIONS OF LINCOLN LABORATORY,
SUPPLEMENT 1.

(U)

DESCRIPTIVE NOTE: REPT. FOR 15 MAR 64-15 JUN 65,
JUN 65 10P

CONTRACT: AF19 628 500

MONITOR: ESD , TDR-64-340

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-607 539.

DESCRIPTORS: (•BIBLIOGRAPHIES, SCIENTIFIC
RESEARCH), (•SCIENTIFIC RESEARCH,
BIBLIOGRAPHIES), (•PHYSICS LABORATORIES,
SCIENTIFIC RESEARCH), REPORTS, INDEXES,
ELECTRONICS, PHYSICS, SPACE COMMUNICATION
SYSTEMS, SOLID STATE PHYSICS, LASERS, RADIO
ASTRONOMY, MAGNETIC MATERIALS, ATMOSPHERE ENTRY,
MATERIALS, SEMICONDUCTORS, RADAR,
ENGINEERING

(U)

THIS LIST OF UNCLASSIFIED PUBLICATIONS OF
LINCOLN LABORATORY IS THE FIRST SUPPLEMENT TO
THE 15 MARCH 1964 EDITION, WHICH SHOULD BE RETAINED
UNTIL A NEW CUMULATIVE LISTING IS PUBLISHED.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-618 672

ARMY BIOLOGICAL LABS FREDERICK MD
MICROBIOLOGICAL SAFETY BIBLIOGRAPHY, (U)
JUL 65 OIP PHILLIPS, G. BRIGGS I
JENSKI, JOSEPH V. I
REPT. NO. MISCELLANEOUS PUBLICATION-6

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIOLOGICAL LABORATORIES, SAFETY),
(*BIOLOGICAL CONTAMINATION, BIBLIOGRAPHIES),
MEDICAL LABORATORIES, MEDICAL TECHNICIANS,
INFECTIONS, HAZARDS, LABORATORY ANIMALS,
LABORATORY EQUIPMENT, GERMICIDES, VENTILATION,
ULTRAVIOLET RADIATION, AEROSOL GENERATORS,
SAMPLERS, RESPIRATORS, PROTECTIVE MASKS,
DECONTAMINATION (U)

MORE THAN A THOUSAND ARTICLES ON BIOLOGICAL SAFETY
IN INFECTIOUS DISEASE LABORATORIES ARE LISTED FOR THE
USE OF SUPERVISORS RESPONSIBLE FOR THE SAFETY OF
LABORATORY PERSONNEL. AN AUTHOR INDEX IS INCLUDED.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-618 717

FORDHAM UNIV BRONX N Y INST OF CONTEMPORARY RUSSIAN
STUDIES

SOVIET BIOMEDICAL JOURNALS: INDEX TO SELECTED
ABSTRACTS, SERIES II, NOS. 1-4,

(U)

JUN 65 68P JASKIEWICZ, W. C. I
CONTRACT: DA18 108 405CHL867A
MONITOR: TT , 65-62789

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•MEDICAL RESEARCH, INDEXES),
(•USSR, MEDICAL RESEARCH), PERIODICALS,
ABSTRACTING, SUBJECT INDEXING, BIBLIOGRAPHIES,
MICROBIOLOGY, DISEASES, PHARMACOLOGY, BIOLOGY,
BIOCHEMISTRY, PHYSIOLOGY, MEDICAL PERSONNEL,
SCIENTIFIC PERSONNEL, MEDICAL LABORATORIES,
BIOLOGICAL LABORATORIES

(U)

THE REPORT INCLUDES THE FOLLOWING: (1) AN
INDEX OF SUBJECTS MENTIONED IN THE BIBLIOGRAPHIES
AND ABSTRACTS OF SERIES II OF THE SELECTED
ABSTRACTS; (2) AN INDEX OF PERSONS WHO
WERE MENTIONED IN THE ABSTRACTS AS AUTHORS OR
SCIENTIFIC CONTRIBUTORS; (3) AN INDEX OF
SOVIET AND OTHER BIOMEDICAL INSTITUTES AND
FACILITIES FROM WHICH THE ORIGINAL MATERIAL
ORIGINATED OR WHICH WERE MENTIONED IN THE COURSE OF
THE ORIGINAL ARTICLE; AND (4) AN INDEX OF
GEOGRAPHICAL PLACES MENTIONED IN THE ABSTRACTS.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-619 373

HRB-SINGER INC STATE COLLEGE PA
TOWARD A GENERAL METHODOLOGY FOR SYSTEMS
EVALUATION,

(U)

JUL 65 73P MARKEL, GENE A. I
REPT. NO. HRB-352-R-13
CONTRACT: NONR381000

UNCLASSIFIED REPORT

DESCRIPTORS: (SYSTEMS ENGINEERING, THEORY),
OPERATIONS RESEARCH, COMMUNICATION THEORY,
BIBLIOGRAPHIES

(U)

IDENTIFIERS: HOIST PROJECT, SYSTEMS ANALYSIS,
EVALUATION

(U)

THE PAPER ATTEMPTS TO ESTABLISH A GENERALIZED
APPROACH TO SYSTEMS EVALUATION. A FUNDAMENTAL
PERSPECTIVE ON SYSTEMS EVALUATION IS FORMULATED BY
APPLYING THE RUDIMENTARY PRINCIPLES OF EVALUATION TO
THE SYSTEM CONCEPT. SYSTEMS MAY BE EVALUATED ON THE
BASIS OF THEIR STRUCTURAL, OPERATIONAL OR PERFORMANCE
CHARACTERISTICS. A MODULAR APPROACH IS RECOMMENDED
AS MOST VALID AND PRACTICAL FOR GENERAL SYSTEMS
EVALUATION. THE MODULAR CONCEPT IS EMPLOYED TO
ESTABLISH REQUIREMENTS FOR THE EVALUATION OF
INTELLIGENCE SYSTEMS AND SOME APPLICABLE MODELING
CONCEPTS ARE DESCRIBED. AN ANNOTATED BIBLIOGRAPHY
OF SOME LITERATURE RELATED TO SYSTEMS EVALUATION IS
INCLUDED AS AN APPENDIX. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-622 232

AEROSPACE INFORMATION DIV LIBRARY OF CONGRESS WASHINGTON D
C

CHARGE-CHANGING COLLISIONS IN GASES. A DESCRIPTIVE
BIBLIOGRAPHY. I. (U)

FEB 64 146P

REPT. NO. AID-U-64-4

MONITOR: TT , 65-64121

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: COMPILED FROM ZHURNAL
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1930-63. AVAILABLE COPY WILL NOT PERMIT FULLY LEGIBLE
REPRODUCTION. REPRODUCTION WILL BE MADE IF REQUESTED BY
USERS OF DDC. COPY IS AVAILABLE FOR PUBLIC SALE.

DESCRIPTORS: (•IONIZATION, GASES), (•NUCLEAR
SCATTERING, IONIZATION), BIBLIOGRAPHIES, PLASMA
MEDIUM, ELECTRON CAPTURE, PERTURBATION THEORY,
ELECTRIC DISCHARGES, DISSOCIATION, EXCITATION,
INELASTIC SCATTERING, HYDROGEN, OXYGEN, WATER,
HELIUM GROUP GASES, IONS, IRON, COBALT,
NICKEL, SILICON, GERMANIUM, TIN, LEAD,
LITHIUM, USSR (U)

A BIBLIOGRAPHY IS GIVEN OF CHARGE-CHANGING
COLLISIONS IN GASES. EIGHTY-SEVEN ARTICLES ARE
LISTED AND THEIR ABSTRACTS ARE INCLUDED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-622 940

AEROSPACE INFORMATION DIV LIBRARY OF CONGRESS WASHINGTON D
C

ELECTROSTATIC PHOTOGRAPHY.

(U)

JAN 64 49P

REPT. NO. AID-U-64-2

MONITOR: TT , 65-64285

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BIBLIOGRAPHY OF SOVIET LITERATURE
FOR THE PERIOD 1959-1963.

DESCRIPTORS: (ELECTROPHOTOGRAPHY, USSR),
PHOTOGRAPHIC EQUIPMENT, PHOTOGRAPHIC MATERIALS,
PHOTOGRAPHIC TECHNIQUES, ELECTROSTATICS,
BIBLIOGRAPHIES

(U)

THIS BIBLIOGRAPHY IS INTENDED AS A GUIDE TO
SOVIET LITERATURE ON ELECTROSTATIC PHOTOGRAPHY.
THE BIBLIOGRAPHY COVERS THE PERIOD 1959-1963.
THE 68 ENTRIES ARE ARRANGED ALPHABETICALLY BY
AUTHOR WITHIN EACH SECTION. AN ANNOTATION IS
PROVIDED FOR EACH ARTICLE. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-627 886 14/1 12/2
RAND CORP SANTA MONICA CALIF
ANNOTATED BIBLIOGRAPHY ON SYSTEMS COST ANALYSIS. (U)
FEB 66 70P DONVITO, P. A. I
REPT. NO. RM-4848-PR
CONTRACT: AF49(638)-1700

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (COST EFFECTIVENESS,
BIBLIOGRAPHIES), (OPERATIONS RESEARCH, COST
EFFECTIVENESS), DEPARTMENT OF DEFENSE, BUDGETS,
SYSTEMS ENGINEERING (U)

A BIBLIOGRAPHY OF UNCLASSIFIED LITERATURE ON
SYSTEMS COST ANALYSIS, INCLUDING BOOKS, PAMPHLETS,
ARTICLES, PAPERS, AND TECHNICAL AND RESEARCH
MEMORANDA, GIVING THE NATURE AND CONTENT OF EACH
WORK. THE TITLES ARE GROUPED INTO CATEGORIES
REPRESENTING BROAD AREAS OF COST ANALYSIS AND ITS
APPLICATION IN THE DEPARTMENT OF DEFENSE.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-640 252 14/2 6/8 15/5 13/4
11/10 4/2

ARMY NATICK LABS MASS
BIBLIOGRAPHY OF TECHNICAL PUBLICATIONS AND PAPERS,
JANUARY 1965 - JUNE 1966. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.
JUL 66 75P
REPT. NO. TR-67-1,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ARMY RESEARCH, REPORTS),
BIBLIOGRAPHIES, CLOTHING, ORGANIC MATERIALS,
FOOD, CONTAINERS, MECHANICAL ENGINEERING, AIR
DROP OPERATIONS, METEOROLOGY (U)

A BIBLIOGRAPHIC LISTING OF TECHNICAL PUBLICATIONS
AND PAPERS BY THE PERSONNEL OF THE U. S. ARMY
NATICK LABORATORIES AND ITS CONTRACTORS FOR THE
PERIOD JANUARY 1965 THROUGH JUNE 1966.
(AUTHOR) (U)

MILITARY SCIENCES

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-403 861

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

CHEMICAL AND BIOLOGICAL WARFARE (USSR). (U)

APR 63 34P

MONITOR: AID B63 52

UNCLASSIFIED REPORT

DESCRIPTORS: *BIOLOGICAL WARFARE, *CHEMICAL
WARFARE, *BIBLIOGRAPHIES.

(U)

IDENTIFIERS: USSR.

(U)

CHEMICAL AND BIOLOGICAL WARFARE BIBLIOGRAPHY (USSR)
BASED ON SOVIET AND SOVIET-BLOC-OPEN SOURCE MATERIALS
AVAILABLE AT THE AEROSPACE INFORMATION DIVISION AND
THE LIBRARY OF CONGRESS AND COVERS THE PERIOD FROM
JANUARY 1960 THROUGH DECEMBER 1962.

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-405 962

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA
WEAPONS.

(U)

JUN 63 IV

UNCLASSIFIED REPORT

DESCRIPTORS: (•WEAPONS), ABSTRACTS, CHEMICAL
WARFARE, BIOLOGICAL WARFARE, CIVIL DEFENSE
SYSTEMS, MILITARY PERSONNEL, NUCLEAR WEAPONS,
NUCLEAR WARFARE, RADIOLOGICAL CONTAMINATION,
BIBLIOGRAPHIES

(U)

IDENTIFIERS: USSR.

(U)

AN ABSTRACT BIBLIOGRAPHY ON WEAPONS USED IN MODERN
WARFARE.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-413 797

QUARTERMASTER RESEARCH AND ENGINEERING COMMAND NATICK
MASS

BIBLIOGRAPHY OF PUBLICATIONS AND TECHNICAL PAPERS
FOR 1962.

(U)

MAY 63 37P

MONITOR: QREC

QMRE27

UNCLASSIFIED REPORT

DESCRIPTORS: (*ARMED FORCES SUPPLIES,
BIBLIOGRAPHIES), (*BIBLIOGRAPHIES, ARMED FORCES
SUPPLIES), LOGISTICS, FOOD, SCIENTIFIC
RESEARCH, ENGINEERING, REPORTS.

(U)

IDENTIFIERS: 1962.

(U)

BIBLIOGRAPHY OF PUBLICATIONS AND TECHNICAL PAPERS BY THE
QUARTERMASTER RESEARCH AND ENGINEERING CENTER.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-418 084

STANFORD RESEARCH INST MENLO PARK CALIF
DEFENSE ANALYSIS CENTER BIBLIOGRAPHY AND ABSTRACTS.

(U)

SEP 63 IV

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, NATIONAL DEFENSE),
 (*NATIONAL DEFENSE, BIBLIOGRAPHIES)

(U)

IDENTIFIERS: 1963, CONUS, AIR DEFENSE, ARMS
CONTROL

(U)

DEFENSE ANALYSIS CENTER BIBLIOGRAPHY AND ABSTRACTS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-429 209

AMERICAN UNIV WASHINGTON D C

UNCONVENTIONAL WARFARE.

(U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY SUPPLEMENT NO. 1,

JAN 64 36P

GARDNER, NANCY ANN :

REPT. NO. RM64 1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUPPLEMENT NO. 1 TO AD-404 755.

DESCRIPTORS: (•BIBLIOGRAPHIES, UNCONVENTIONAL
WARFARE), (•UNCONVENTIONAL WARFARE, BIBLIOGRAPHIES),
GUERRILLA WARFARE, LIMITED WAR, COUNTERINSURGENCY,
MILITARY STRATEGY, MILITARY ORGANIZATION, OPERATIONS
RESEARCH, MODELS (SIMULATIONS), HISTORY, THEORY (U)

IDENTIFIERS: 1964, ASIA, EUROPE, LATIN AMERICA, USSR,
AFRICA, CUBA, IRAN, IRAQ (U)

UNCONVENTIONAL WARFARE BIBLIOGRAPHY SUPPLEMENT NUMBER 1.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-431 929

AMERICAN UNIV WASHINGTON D C
JUNGLE WARFARE BIBLIOGRAPHY,
JAN 64 SIP HUGHISUDDIN, MARGARET I
BUTLER AND, BARBARA REASON I GARDNER, NANCY ANN I
REPT. NO. RM64 2

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*GUERRILLA WARFARE, BIBLIOGRAPHIES),
COUNTERINSURGENCY, ABSTRACTS, LABOR, MILITARY TACTICS,
JUNGLES, TERRAIN, CLIMATOLOGY, ECOLOGY, MILITARY
TRAINING, MILITARY REQUIREMENTS, MILITARY
PERSONNEL (U)

IDENTIFIERS: AFRICA, ASIA, LATIN AMERICA, KENYA,
1964 (U)

INFORMATION ON JUNGLE TERRAIN AND CLIMATE, AS THEY
AFFECT TACTICS, MATERIEL, AND MANPOWER, IS OF
INTEREST TO THE U. S. ARMY BECAUSE U. S. TROOPS
ARE DAILY INVOLVED IN TRAINING FOR AND ADVISING ON
THE CONDUCT OF WARFARE IN THE JUNGLES OF AFRICA,
ASIA, AND LATIN AMERICA. THIS BIBLIOGRAPHY
PRESENTS ARTICLES AND BOOKS CONTAINING INFORMATION
ON EXPERIENCES IN JUNGLE CAMPAIGNS, SUGGESTIONS FOR
TACTICS TAILORED FOR USE IN JUNGLES, AND WAYS OF
TRAINING TROOPS IN JUNGLE WARFARE. THIS MATERIAL
SHOULD BE OF USE TO ARMY SCHOOLS. THE ITEMS
CONTAINED IN THIS BIBLIOGRAPHY WERE REVIEWED IN THE
COURSE OF MAINTAINING A BIBLIOGRAPHIC SURVEY OF THE
UNCLASSIFIED, ENGLISH-LANGUAGE SOURCES OF
INFORMATION ON COUNTERINSURGENCY. THEY ARE
DIVIDED ACCORDING TO GEOGRAPHIC AREA, AND THERE IS AN
AUTHOR-TITLE INDEX TO AID THE READER IN
LOCATING ITEMS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-433 158

AMERICAN UNIV WASHINGTON D C
COUNTERINSURGENCY BIBLIOGRAPHY SUPPLEMENT NO. 2, (U)
DESCRIPTIVE NOTE: RESEARCH MEMO.,
MAR 64 44P MUGHISUDDIN, MARGARET I
REPT. NO. RM-64-4

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUPPLEMENT TO AD-409 100.

DESCRIPTORS: (*BIBLIOGRAPHIES,
*COUNTERINSURGENCY), MODELS(SIMULATIONS),
HISTORY, MILITARY STRATEGY, GUERRILLA WARFARE,
POPULATION, LOGISTICS, FOREIGN POLICY, DEFENSE
SYSTEMS, THEORY, ABSTRACTS (U)
IDENTIFIERS: SORO, 1964, INSURGENCY, ANTIGUERRILLA
WARFARE, PRE-WORLD WAR TWO, POSTWORLD WAR TWO,
AXISCOUNTERINSURGENCY (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-442 272

AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE

COUNTERINSURGENCY BIBLIOGRAPHY,

(U)

JUN 64 42P MUGHISUDDIN, MARGARET ;

REPT. NO. RM64 9

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUPPL. NO. 3 TO AD-294 857 AND AD-
409 100.

DESCRIPTORS: (*COUNTERINSURGENCY, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, COUNTERINSURGENCY), ABSTRACTS,
HISTORY, TRAINING, GUERRILLA WARFARE, PSYCHOLOGICAL
WARFARE, STRATEGIC WARFARE, CUBA, SOUTH ASIA, SOUTH
AMERICA, VIETNAM, LIMITED WAR, LOGISTICS, DEFENSE
SYSTEMS, AFRICA

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD 446 444

AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE

PSYCHOLOGICAL OPERATIONS BIBLIOGRAPHY. SUPPLEMENT NO.
3. (U)

AUG 64 32P OWENS, GAIL I
REPT. NO. RM64 12

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, PSYCHOLOGICAL
WARFARE), (*PSYCHOLOGICAL WARFARE, BIBLIOGRAPHIES),
(*OPERATIONS RESEARCH, PSYCHOLOGICAL WARFARE),
POLITICAL SCIENCE, MILITARY STRATEGY, MILITARY
TACTICS, PROPAGANDA (U)
IDENTIFIERS: BRAINWASHING (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-452 176

AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE

UNCONVENTIONAL WARFARE - BIBLIOGRAPHY SUPPLEMENT NO.

4.

(U)

OCT 64 49P GARDNER, NANCY ANN I
REPT. NO. RH64 14

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, UNCONVENTIONAL
WARFARE), (UNCONVENTIONAL WARFARE, BIBLIOGRAPHIES),
GUERRILLA WARFARE, COUNTERINSURGENCY (U)
IDENTIFIERS: 1964 (U)

UNCONVENTIONAL WARFARE BIBLIOGRAPHY SUPPLEMENT NO. 4.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-456 200

AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE

PSYCHOLOGICAL OPERATIONS BIBLIOGRAPHY. SUPPLEMENT NO.

(U)

4,

NOV 64 23P OWENS, GAIL I

REPT. NO. RM64 15

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ORIGINAL COPY IS OF POOR QUALITY.
REPRODUCTION MAY NOT BE ENTIRELY LEGIBLE.

DESCRIPTORS: (•PSYCHOLOGICAL WARFARE,
BIBLIOGRAPHIES), (•BIBLIOGRAPHIES, PSYCHOLOGICAL
WARFARE), OPERATIONS RESEARCH, PROPAGANDA, COMMUNISM,
COMMUNICATION SYSTEMS, MILITARY INTELLIGENCE,
POLITICAL SCIENCE, DISPLAY SYSTEMS

(U)

IDENTIFIERS: ABSTRACTS

(U)

BIBLIOGRAPHY OF HISTORICAL AND FUNDAMENTAL ELEMENTS OF
PSYCHOLOGICAL OPERATIONS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-459 765

AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE

COUNTERINSURGENCY BIBLIOGRAPHY SUPPLEMENT NO. 5. (U)

DESCRIPTIVE NOTE: RESEARCH MEMO.,

DEC 64 JOP HUGH SUDDIN, MARGARET I

REPT. NO. RM-64-16

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COUNTERINSURGENCY, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, COUNTERINSURGENCY), GUERRILLA
WARFARE, MILITARY STRATEGY, FOREIGN POLICY, UNITED
STATES GOVERNMENT, WARFARE, MILITARY ORGANIZATIONS,
MILITARY PERSONNEL, MILITARY INTELLIGENCE, MILITARY
TRAINING, LOGISTICS, INDEXES (U)

CONTENTS: PART I: FUNDAMENTAL ELEMENTS OF
COUNTERINSURGENCY -- THE INSURGENCY PROBLEM;
UNITED STATES POSTURE; ADMINISTRATIVE
MATTERS; INTELLIGENCE AND COUNTERINTELLIGENCE;
POPULATION MANAGEMENT; ANTIGUERRILLA WARFARE;
PART II: HISTORICAL MODELS OF
COUNTERINSURGENCY -- PREWORLD WAR III
WORLD WAR III POST-WORLD WAR II
CASES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-460 444

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

SOVIET LITERATURE ON PROTECTIVE STRUCTURES AND
COMPONENTS. (U)

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

MAY 64 25P

REPT. NO. ATD-U-64-44

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*CIVIL ENGINEERING, USSR),
(*TRANSPORTATION, USSR), (*BIBLIOGRAPHIES, USSR),
CONSTRUCTION, RAILROADS, ROADS, UNDERGROUND
STRUCTURES, GROUND SUPPORT EQUIPMENT, PACKAGING, POWER
SUPPLIES, PERIODICALS, ABSTRACTING (U)

THIS IS THE TWELFTH IN A SERIES OF REPORTS
REVIEWING SOVIET LITERATURE ON GROUND SUPPORT
EQUIPMENT. THIS REPORT IS BASED ON MATERIALS
RECEIVED BETWEEN 29 DECEMBER 1963 AND 27 MARCH
1964 AND CONTAINS MATERIALS RELEVANT TO TOPICS UNDER
THE FOLLOWING FIELDS OF INTEREST: MISSILE DATA;
FACILITIES; TRANSPORT; LAUNCH SITES; NATURAL
ENVIRONMENT; PACKAGING AND STORAGE. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-461 201

AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE

UNCONVENTIONAL WARFARE.

(U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY SUPPLEMENT NO. 5,

JAN 65 34P CURRIER, NANCY I

REPT. NO. SORO-RM-65-1

UNCLASSIFIED REPORT

AVAILABILITY: MICROFICHE ONLY AFTER ORIGINAL COPIES

EXHAUSTED.

SUPPLEMENTARY NOTE: MICROFICHE ONLY AFTER ORIGINAL COPIES
EXHAUSTED.

DESCRIPTORS: (•UNCONVENTIONAL WARFARE,
BIBLIOGRAPHIES), (•BIBLIOGRAPHIES, UNCONVENTIONAL
WARFARE), HISTORY, ABSTRACTING, TACTICAL WARFARE,
STRATEGIC WARFARE, GUERRILLA WARFARE, COMMUNISTS,
LOGISTICS, MILITARY INTELLIGENCE, TERRAIN, MILITARY
STRATEGY, MILITARY TACTICS, REVIEWS, COUNTERINSURGENCE(U)

CONTENTS: FUNDAMENTAL ELEMENTS OF
UNCONVENTIONAL WARFARE THEORY; STRATEGY;
LEGALITY; ADMINISTRATIVE MATTERS;
UNCONVENTIONAL WARFARE OPERATIONS; SEMI-
CONVENTIONAL FORCES; HISTORICAL MODELS OF
UNCONVENTIONAL WARFARE IN INSURGENCIES --
PRE-WORLD WAR II EXPERIENCE; WORLD WAR
II EXPERIENCE; POST-WORLD WAR II
EXPERIENCE.

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-467 061

AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE

PSYCHOLOGICAL OPERATIONS BIBLIOGRAPHY SUPPLEMENT NO.

5.

(U)

DESCRIPTIVE NOTE: RESEARCH MEMO.,

FEB 65 19P OWENS, GAIL I

REPT. NO. RM-65-14

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•PSYCHOLOGICAL WARFARE,
BIBLIOGRAPHIES), (•BIBLIOGRAPHIES, PSYCHOLOGICAL
WARFARE), OPERATIONS RESEARCH, PROPAGANDA,
COMMUNISM, COMMUNICATION SYSTEMS, MILITARY
INTELLIGENCE, POLITICAL SCIENCE

(U)

IDENTIFIERS: ABSTRACTS

(U)

PSYCHOLOGICAL OPERATIONS BIBLIOGRAPHY.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-467 062
AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE
PSYCHOLOGICAL OPERATIONS BIBLIOGRAPHY, SUPPLEMENT NO. (U)

6.
DESCRIPTIVE NOTE: RESEARCH MEMO.,
MAY 65 42P GOSIER, DENNIS I
REPT. NO. RM-65-6

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PSYCHOLOGICAL WARFARE,
BIBLIOGRAPHIES), (*BIBLIOGRAPHIES, PSYCHOLOGICAL
WARFARE), POLITICAL SCIENCE, COMMUNISM, MILITARY
STRATEGY, PROPAGANDA, OPERATIONS RESEARCH,
COMMUNICATION SYSTEMS, DISPLAY SYSTEMS (U)
IDENTIFIERS: ABSTRACTS (U)

PSYCHOLOGICAL OPERATIONS BIBLIOGRAPHY.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-467 544
AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE
UNCONVENTIONAL WARFARE BIBLIOGRAPHY SUPPLEMENT NO. (U)

6.
DESCRIPTIVE NOTE: RESEARCH MEMO.,
APR 65 73P GARDNER, NANCY ANN I
REPT. NO. RM-65-5

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•UNCONVENTIONAL WARFARE,
BIBLIOGRAPHIES), (•BIBLIOGRAPHIES,
UNCONVENTIONAL WARFARE), COUNTERINSURGENCY,
GUERRILLA WARFARE, MILITARY STRATEGY, USSR,
LOGISTICS, AFRICA, EUROPE, ASIA, MIDDLE
EAST, SOUTH AMERICA, VIETNAM (U)

UNCONVENTIONAL WARFARE BIBLIOGRAPHY SUPPLEMENT NO. 6.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-468 851

AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE
COUNTERINSURGENCY BIBLIOGRAPHY - SUPPLEMENT NO.

7.

(U)

DESCRIPTIVE NOTE; RESEARCH MEMO.,
JUN 65 111P HUGHISUDDIN, MARGARET I
REPT. NO. RM-65-7

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (COUNTERINSURGENCY,
BIBLIOGRAPHIES), (BIBLIOGRAPHIES,
COUNTERINSURGENCY), GUERRILLA WARFARE, MILITARY
INTELLIGENCE, PSYCHOLOGICAL WARFARE, SOCIOLOGY,
DEFENSE SYSTEMS, POLITICAL SCIENCE, ECONOMICS,
CASUALTIES, HISTORY, LATIN AMERICA, EUROPE,
ASIA, MIDDLE EAST, SOUTHEAST ASIA,
VIETNAM, LOGISTICS, MILITARY TRAINING
IDENTIFIERS: CIVIL DISORDER, ABSTRACTS

(U)

(U)

CONTENTS: AREAS OF INSTABILITY; THE NATURE
OF INSURGENCY; COMMUNIST SUPPORT AND
EXPLOITATION; POLITICAL POSTURE; MILITARY
STRATEGY; RECRUITMENT AND TRAINING, COMMAND
AND LEADERSHIP, TROOP MORALE AND DISCIPLINE;
WORKING WITH INDIGENOUS FORCES; LOGISTICS;
INTELLIGENCE AND COUNTERINTELLIGENCE; GENERAL
SOCIO-ECONOMIC-POLITICAL MEASURES;
PSYCHOLOGICAL OPERATIONS; RESETTLEMENT;
INTIMIDATION, REPRESSION, TERRORISM, AND
POLICE ACTIONS; ANTI-GUERILLA WARFARE;
LEGALITY AND MORALITY; AND HISTORICAL MODELS
OF COUNTERINSURGENCY.

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-473 881

AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE

UNCONVENTIONAL WARFARE BIBLIOGRAPHY. SUPPLEMENT NO.

7.

(U)

DESCRIPTIVE NOTE: RESEARCH MEMO.,

JUL 65 63P CURRIER, NANCY I

REPT. NO. RM-65-8

CONTRACT: DA49 092AR07

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO SUPPLEMENT NO. 5, AD-461
201.

DESCRIPTORS: (UNCONVENTIONAL WARFARE,
BIBLIOGRAPHIES), TRINIDAD, PANAMA, HONDURAS,
GUATEMALA, DOMINICAN REPUBLIC, OPERATIONS
RESEARCH, COMMUNISTS, LOGISTICS, TRAINING,
GUERRILLA WARFARE, TERRAIN, ALGERIA, ANGOLA,
CONGO (LEOPOLDVILLE), UNION OF SOUTH AFRICA,
BURMA, PERU, JAMAICA, HAITI, EL SALVADOR,
INDONESIA, VIETNAM, LAOS, THAILAND,
PHILIPPINES, MALAYA, NORTH KOREA, ARGENTINA,
BRAZIL, COLOMBIA, CUBA

(U)

IDENTIFIERS: BOLIVIA, CAMEROON, MALAWI

(U)

UNCONVENTIONAL WARFARE BIBLIOGRAPHY. SUPPLEMENT NO. 7.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-473 882

AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE

PSYCHOLOGICAL OPERATIONS BIBLIOGRAPHY - SUPPLEMENT

NO. 7.

(U)

DESCRIPTIVE NOTE: RESEARCH MEMO.,

AUG 65 40P GOSIER, DENNIS I

R Y. NO. RM-65-9

CONTRACT: DA49 092AR07

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO SUPPLEMENT NO. 1, AD-461
201.

DESCRIPTORS: (•PSYCHOLOGICAL WARFARE,
•BIBLIOGRAPHIES), APPLIED PSYCHOLOGY,
PROPAGANDA, ARMED FORCES OPERATIONS, MILITARY
PSYCHOLOGY, MILITARY STRATEGY, MILITARY TACTICS

(U)

CONTENTS: PSYOPS ORGANIZATION AND PERSONNEL;
PSYCHO-POLITICAL WARFARE; MILITARY
PSYCHOLOGICAL OPERATIONS; PSYOPS TECHNIQUES;
MEDIA AND SUPPORT; PSYOPS ANALYSIS.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-601 296

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D
C

REFERENCES PERTAINING TO DYNAMIC ENVIRONMENTS DURING
TRANSPORTATION, (U)

MAR 64 IV LEE, RICHARD W. H. I
REPT. NO. 563 OC9, PDL46816

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, TRANSPORTATION),
(TRANSPORTATION, BIBLIOGRAPHIES), SHOCK (MECHANICS),
VIBRATION, VIBRATION ISOLATORS, PACKAGING (U)
IDENTIFIERS: CUSHIONING (U)

THE BIBLIOGRAPHY LISTS 47 ITEMS ON THE ANALYSIS OF
TRANSPORTATION ENVIRONMENTS AND PROTECTION OF
MATERIALS IN TRANSIT. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-602 772

ARMY GENERAL EQUIPMENT TEST ACTIVITY FORT LEE VA
ABSTRACT BIBLIOGRAPHY TECHNICAL REPORTS PUBLISHED
FISCAL YEAR 1964.

(U)

SIP

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BIBLIOGRAPHIES, ABSTRACTING), (•ARMY
EQUIPMENT, TESTS), (•FOOD, TESTS), CLOTHING,
LOGISTICS, RADIATION EFFECTS, REPORTS, CONTAINERS (U)

ABSTRACTS ARE GIVEN ON ENGINEERING TESTS OF
EQUIPMENT IN GENERAL USE THROUGHOUT THE ARMY. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-604 572
AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE
UNCONVENTIONAL WARFARE. (U)
DESCRIPTIVE NOTE: BIBLIOGRAPHY SUPPLEMENT NO. 3,
JUL 64 56P GARDNER, NANCY ANN I
REPT. NO. SORO-RM-64-10

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: OPERATING UNDER CONTRACT WITH THE
DEPARTMENT OF THE ARMY.

DESCRIPTORS: (*UNCONVENTIONAL WARFARE,
BIBLIOGRAPHIES), (*BIBLIOGRAPHIES, UNCONVENTIONAL
WARFARE), MILITARY STRATEGY, MILITARY TACTICS,
PSYCHOLOGICAL WARFARE, HISTORY, ABSTRACTING (U)

CONTENTS: FUNDAMENTAL ELEMENTS OF UNCONVENTIONAL
WARFARE (THEORY, STRATEGY, LEGALITY, ADMINISTRATIVE
MATTERS, UNCONVENTIONAL WARFARE OPERATIONS, SEMI-
CONVENTIONAL); HISTORICAL MODELS OF UNCONVENTIONAL
WARFARE IN INSURGENCIES (PRE-WORLD WAR I
EXPERIENCE, WORLD WAR I-1939 EXPERIENCES,
WORLD WAR II EXPERIENCE, POST-WORLD WAR
II EXPERIENCE). (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-607 767

AMERICAN UNIV WASHINGTON D C SPECIAL OPERATIONS RESEARCH
OFFICE

COUNTERINSURGENCY BIBLIOGRAPHY SUPPLEMENT NO. 4, (U)
SEP 64 S&P HUGH SUDDIN, MARGARET I

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: OPERATING UNDER CONTRACT WITH THE
DEPT. OF THE ARMY, SEE ALSO AD-433 158.

DESCRIPTORS: (COUNTERINSURGENCY, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, COUNTERINSURGENCY), GUERRILLA
WARFARE, MILITARY STRATEGY, FOREIGN POLICY, UNITED
STATES GOVERNMENT, WARFARE, MODELS (SIMULATIONS),
HISTORY, ABSTRACTING, MILITARY INTELLIGENCE,
COUNTERMEASURES (U)

CONTENTS: THE INSURGENCY PROBLEM; UNITED
STATES POSTURE; ADMINISTRATIVE MATTERS;
INTELLIGENCE AND COUNTERINTELLIGENCE; POPULATION
MANAGEMENT; ANTIGUERRILLA WARFARE; LEGALITY AND
MORALITY; WORLD WAR II; AXIS
COUNTERINSURGENCY; POST-WORLD WAR II CASES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-608 380

OKLAHOMA UNIV RESEARCH INST NORMAN
THE PSYCHOLOGICAL EFFECTS OF NON-NUCLEAR WEAPONS: A
BIBLIOGRAPHY WITH SELECTED ABSTRACTS. VOLUME 1. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.,
AUG 64 88P PAGE, MONTE M. I
GOFF, CLINTON I PALMER, J. D. I
REPT. NO. OURI-TR-1419-4
CONTRACT: AFOS 635 3693

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•WARFARE, REACTION (PSYCHOLOGY)),
(•BIBLIOGRAPHIES, WARFARE), STRESS (PSYCHOLOGY),
EMOTIONS, STRESS (PHYSIOLOGY), PSYCHOLOGICAL WARFARE,
ABSTRACTING, SOCIOMETRICS, WEAPONS, WEAPON SYSTEMS,
LIMITED WARFARE, PSYCHOMETRICS, CIVILIAN PERSONNEL (U)

PSYCHOLOGICAL EFFECTS OF NON-NUCLEAR WEAPONS: A
BIBLIOGRAPHY WITH SELECTED ABSTRACTS, VOLUME 1.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-614 269

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
WRITING AND SUBMITTING THE SUCCESSFUL PROPOSAL. A
SELECTIVE ANNOTATED BIBLIOGRAPHY, (U)

OCT 62 3P GRAZIANO, EUGENE E. I

REPT. NO. SB-62-52

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•PROCUREMENT, REPORTS), (•REPORTS,
PREPARATION), ENGINEERING, BIBLIOGRAPHIES (U)
IDENTIFIERS: PROPOSALS, TECHNICAL WRITING (U)

WRITING AND SUBMITTING THE SUCCESSFUL PROPOSAL. A
SELECTIVE ANNOTATED BIBLIOGRAPHY.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-615 501

AUERBACH CORP PHILADELPHIA PA

DOD USER NEEDS STUDY, PHASE I, VOLUME 1.

(U)

DESCRIPTIVE NOTE: FINAL TECHNICAL REPT.,

MAY 65 176P

BERUL, LAWRENCE H. I

ELLING, MICHAEL E. IKARSON, ALLAN ISHAFRITZ, ARNOLD

B. ISIEBER, HARRY I

REPT. NO. 1151-TR-3

CONTRACT: SD219

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-601 259 AND AD-615
502.

DESCRIPTORS: (*DEPARTMENT OF DEFENSE, DOCUMENTATION),

(*INFORMATION RETRIEVAL, DEPARTMENT OF DEFENSE),

(*ENGINEERING PERSONNEL, INFORMATION RETRIEVAL),

(*SCIENTIFIC PERSONNEL, INFORMATION RETRIEVAL),

BIBLIOGRAPHIES, PSYCHOMETRICS, SCIENTIFIC RESEARCH (U)

IDENTIFIERS: DEFENSE DOCUMENTATION CENTER,

INFORMATION CENTERS, INFORMATION SCIENCES, TECHNOLOGY (U)

AN INTERVIEW-BASED SURVEY OF THE DOD RDT AND E
POPULATION WAS CONDUCTED TO DETERMINE HOW DOD
SCIENTISTS AND ENGINEERS PRESENTLY ACQUIRE AND USE
SCIENTIFIC AND TECHNICAL INFORMATION. DEPTH
INTERVIEWS WERE CONDUCTED WITH 1375 RESPONDENTS
RANDOMLY SELECTED FROM THE 36,000 MEMBERS OF THE DOD
RDT AND E POPULATION. THE CRITICAL INCIDENT
INTERVIEWING TECHNIQUE WAS USED TO ISOLATE A RECENTLY
COMPLETED TASK, AND TO DEFINE THE CHARACTERISTICS
(E.G., DEPTH, VOLUME, CLASS, TIMELINESS, FIELD
MEDIA) OF THE INFORMATION ACQUIRED AND USED IN THE
PERFORMANCE OF THAT TASK. A SEMI-STRUCTURED
INTERVIEW GUIDE AND HANDBOOK WERE DEVELOPED AND USED
TO ENSURE CONSISTENCY OF QUESTION INTERPRETATION.
A DATA COMPILATION SYSTEM AND COMPUTER PROGRAMS
WERE DEVELOPED TO COMPILE, ANALYZE, COMPRESS, AND
PRESENT THE DATA. APPROXIMATELY 600 ONE-WAY, TWO-
WAY AND THREE-WAY TABLES WERE PREPARED TO AID IN THE
ANALYSIS. VOLUME 1 CONSISTS OF THREE SECTIONS
ENTITLED: MANAGEMENT REPORT, CONDUCT OF
STUDY, AND ANALYSIS OF DATA, PLUS FOUR
APPENDICES ENTITLED: STUDY EXECUTION,
DISCUSSION AND RESULTS OF SURVEY QUESTIONS,
BIBLIOGRAPHY OF USER STUDIES, AND GLOSSARY.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-618 467

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

CBE FACTORS.

DESCRIPTIVE NOTE: ANNOTATED BIBLIOGRAPHY ON SURVEYS OF
SOVIET-BLOC SCIENTIFIC AND TECHNICAL LITERATURE. (U)

JUL 65 78P

REPT. NO. ATD-B-65-43 ,1

MONITOR: TT , 65-62674

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BACTERIAL AEROSOLS,
BIBLIOGRAPHIES), (*CHEMOTHERAPEUTIC AGENTS,
BIBLIOGRAPHIES), (*AEROSOLS, BIBLIOGRAPHIES),
(*MICROBIOLOGY, BIBLIOGRAPHIES), TOXINS +
ANTITOXINS, VACCINES, BRUCELLA, BACILLUS
ANTHRACIS, CLOSTRIDIUM, PASTEURELLA,
STAPHYLOCOCCUS, MYCOBACTERIUM TUBERCULOSIS,
VIRUSES, DISEASES, CARDIAC GLYCOSIDES,
HERBICIDES, RESPIRATORY DISEASES, PHARMACOLOGY,
PENICILLINS, PSYCHOTROPIC AGENTS, ANTIBIOTICS,
DOSAGE, CENTRAL NERVOUS SYSTEM, PHYSIOLOGY,
PATHOLOGY, BIOCHEMISTRY, BIOLOGICAL STAINS,
IMMUNITY, CHEMICAL WARFARE AGENTS, BIOLOGICAL
WARFARE AGENTS, USSR

(U)

AEROSOLS, BIOLOGICAL PATHOGENS, AND CHEMICAL
SUBSTANCES: ANNOTATED BIBLIOGRAPHY.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-621 644

ARMY LIBRARY WASHINGTON D C

UNITED STATES NATIONAL SECURITY.

(U)

DESCRIPTIVE NOTE: SPECIAL BIBLIOGRAPHY.

JUN 56 223P

REPT. NO. SB-7

MONITOR: TT ,

65-64025

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (NATIONAL DEFENSE, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, NATIONAL DEFENSE), COLD WAR,
MILITARY STRATEGY, GOVERNMENT(FOREIGN),
FOREIGN POLICY, POLITICAL SCIENCE, USSR, CHINA,
GREAT BRITAIN, UNITED STATES, AERIAL
WARFARE, NUCLEAR WARFARE, UNCONVENTIONAL WARFARE,
PSYCHOLOGICAL WARFARE, DISARMAMENT

(U)

THIS STUDY IS INTENDED AS AN AID TO POLICY-MAKERS,
PLANNERS, RESEARCHERS AND STUDENTS INVOLVED IN
MATTERS PERTAINING TO THE NATIONAL SECURITY OF THE
U. S. THIS PUBLICATION CONSISTS OF APPROXIMATELY
1,000 UNCLASSIFIED TITLES OF MAGAZINE ARTICLES,
REPORTS, BOOKS, AND OTHER MATERIALS IN THE HOLDINGS
OF THE ARMY LIBRARY, AND COVERS A PERIOD OF TWO
YEARS, FROM EARLY 1954 THROUGH MAY 1956. AS A
FURTHER AID TO THE USER EACH TITLE IS FOLLOWED BY AN
ABSTRACT. THIS BIBLIOGRAPHY HAS BEEN LIMITED TO
LITERATURE DESCRIBING ONLY SOME OF THE COUNTRIES OF
THE WORLD ALTHOUGH NATIONAL SECURITY INTERESTS OF THE
U. S. AS A WORLD POWER ARE INVOLVED IN ALL THE
AREAS OF THE GLOBE. AFRICA, AND LATIN AMERICA,
FOR EXAMPLE, HAVE BEEN OMITTED BECAUSE OF SPACE AND
TIME LIMITATIONS, AND IT IS ANTICIPATED THAT THESE
AND OTHER AREAS WILL BE TREATED IN SUBSEQUENT
STUDIES. BECAUSE THE SUBJECT OF GUIDED MISSILES,
BOTH U. S. AND FOREIGN, HAS BEEN PRESENTED IN THE
ARMY LIBRARY'S SPECIAL BIBLIOGRAPHY NO. 4,
20 APRIL 56, REFERENCES TO GUIDED MISSILES HAVE
BEEN EXCLUDED FROM THIS STUDY.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-623 249

AEROSPACE INFORMATION DIV LIBRARY OF CONGRESS WASHINGTON D

C

NUCLEAR WEAPONS EFFECTS; COMPILATION OF
ABSTRACTS.

(U)

DESCRIPTIVE NOTE; REPT. NO. 1 ON AID WORK ASSIGNMENT NO.
66.

MAY 64 22P

REPT. NO. AID-U-64-38

MONITOR: TT , 65-64460

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRELIMINARY REPT. OF SOVIET OPEN
SOURCES FOR THE PERIOD JAN 56-MAR 64. REPT. ON
SURVEYS OF SOVIET-BLOC SCIENTIFIC AND TECHNICAL
LITERATURE.

DESCRIPTORS: (•NUCLEAR WEAPONS, EXPLOSION
EFFECTS), (•EXPLOSION EFFECTS, REVIEWS), USSR,
SHOCK WAVES, RADIATION DAMAGE, THERMAL RADIATION,
HEAT TRANSFER, PLASMA MEDIUM, BIBLIOGRAPHIES

(U)

CONTENTS: STRUCTURE AND PARAMETERS OF STRONG
SHOCK WAVES IN GASES; PARAMETERS OF STRONG SHOCK
WAVES IN SOLIDS; PROPAGATION OF STRONG SHOCK WAVES;
INTERACTION OF STRONG SHOCK WAVES WITH MATERIALS;
NUCLEAR EXPLOSION EFFECTS; THE METEORITE ANALOGY;
RADIATIVE HEAT TRANSFER.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-626 481 15/3 22/2 1/3 14/2
RESEARCH AND TECHNOLOGY DIV AIR FORCE SYSTEMS COMMAND
WASHINGTON D C
BIBLIOGRAPHY OF TECHNICAL PRESENTATIONS AND
PUBLICATIONS, JULY 1964-JULY 1965. (U)
JUL 65 26P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*AIR FORCE SYSTEMS COMMAND,
AIR FORCE RESEARCH), (*AIR FORCE RESEARCH,
BIBLIOGRAPHIES), SYSTEMS ENGINEERING, MILITARY
PUBLICATIONS, AEROSPACE CRAFT, MATERIALS,
ELECTRONICS, FUELS, LUBRICANTS, COATINGS,
PROPELLANTS, FLIGHT CONTROL SYSTEMS, PROPULSION,
WEAPON SYSTEMS, AERONAUTICS, DOCUMENTATION (U)

A SELECTED BIBLIOGRAPHY IS GIVEN OF THE
PUBLICATIONS OF THE AIR FORCE LABORATORIES AND
THE SYSTEMS ENGINEERING GROUP OF THE RESEARCH
AND TECHNOLOGY DIVISION. THEY ARE PRESENTED
ALPHABETICALLY BY TECHNICAL DOMAIN, BEGINNING WITH
ADVANCED VEHICLE CONCEPT AND ENDING WITH WEAPONS AND
MUNITIONS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-630 118 15/5 5/1
ARMY NATICK LABS MASS
BIBLIOGRAPHY OF PUBLICATIONS AND TECHNICAL PAPERS FOR
1963. (U)
DESCRIPTIVE NOTE; TECHNICAL DEPT.
MAY 64 32P
REPT. NO. NL-1.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ARMY RESEARCH; BIBLIOGRAPHIES),
ARMY EQUIPMENT; CLOTHING; GEOPHYSICS, FOOD,
MECHANICAL ENGINEERING, MANAGEMENT PLANNING,
ORGANIC MATERIALS, CONTAINERS (U)

THE RESEARCH IS DIVIDED ACCORDING TO THE FOLLOWING
ORIGINATING GROUPS: OFFICE OF THE COMMANDING
GENERAL, OFFICE OF SCIENTIFIC DIRECTOR,
PLANS OFFICE, AIR DELIVERY EQUIPMENT
DIVISION, CLOTHING AND ORGANIC MATERIALS
DIVISION, CONTAINER DIVISION, EARTH
SCIENCES DIVISION, FOOD DIVISION,
MECHANICAL ENGINEERING DIVISION, PIONEERING
RESEARCH DIVISION. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-630 132 15/5 5/1
ARMY NATICK LABS MASS
BIBLIOGRAPHY OF PUBLICATIONS AND TECHNICAL PAPERS FOR
1964. (U)
DESCRIPTIVE NOTE: TECHNICAL REPT.
MAY 65 47P
REPT. NO. NL-2.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ARMY RESEARCH, BIBLIOGRAPHIES),
AIR DROP OPERATIONS, MANAGEMENT PLANNING,
CLOTHING, ORGANIC MATERIALS, CONTAINERS,
GEOPHYSICS, FOOD, MECHANICAL ENGINEERING (U)

THE RESEARCH IS DIVIDED ACCORDING TO THE FOLLOWING
ORIGINATING GROUPS: OFFICE OF THE COMMANDING
GENERAL, OFFICE OF SCIENTIFIC DIRECTOR,
PLANS OFFICE, AIRDROP ENGINEERING DIVISION,
CLOTHING AND ORGANIC MATERIALS DIVISION,
CONTAINER DIVISION, EARTH SCIENCES
DIVISION, FOOD DIVISION, MECHANICAL
ENGINEERING DIVISION, PIONEERING RESEARCH
DIVISION. (U)

UNCLASSIFIED

000362

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-630 774 15/7
SPECIAL OPERATIONS RESEARCH OFFICE WASHINGTON D C
COUNTERINSURGENCY INFORMATION ANALYSIS CENTER
BIBLIOGRAPHY ON COUNTERINSURGENCY, UNCONVENTIONAL
WARFARE, AND PSYCHOLOGICAL OPERATIONS: SUPPLEMENT
NO. 8, (U)
FEB 60 99P CURRIER, NANCY IGOSIER, DENNIS
IBERRY, HEIDI I
CONTRACT: DA-49-092-ARQ-7,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (+COUNTERINSURGENCY,
BIBLIOGRAPHIES), (+BIBLIOGRAPHIES,
COUNTERINSURGENCY), (+UNCONVENTIONAL WARFARE,
BIBLIOGRAPHIES), (+PSYCHOLOGICAL WARFARE,
BIBLIOGRAPHIES) (U)

THIS IS A BIBLIOGRAPHY OF UNCLASSIFIED, ENGLISH-
LANGUAGE BOOKS AND ARTICLES ON COUNTERINSURGENCY,
UNCONVENTIONAL WARFARE, AND PSYCHOLOGICAL OPERATIONS.
WITHIN EACH OF THESE SUBJECTS THE ENTRIES ARE
CATEGORIZED AND CROSS-REFERENCED BY SPECIFIC PROBLEM
AND AREA, AND INDEXED BY AUTHOR AND TITLE.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-633 520 15/7
SPECIAL OPERATIONS RESEARCH OFFICE AMERICAN UNIV
WASHINGTON D C
ANNOTATED BIBLIOGRAPHY OF SORO PUBLICATIONS. (U)
FEB 66 JOP
CONTRACT: DA-49-092-ARO-7,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COUNTERINSURGENCY,
BIBLIOGRAPHIES), (*ARMED FORCES OPERATIONS,
BIBLIOGRAPHIES), PSYCHOLOGICAL WARFARE,
UNCONVENTIONAL WARFARE, POLITICAL SCIENCE,
SOCIAL SCIENCES, GOVERNMENT(FOREIGN),
DOCUMENTATION, TECHNICAL INFORMATION CENTERS (U)

AN ANNOTATED LISTING IS PRESENTED OF ALL SORO
PUBLICATIONS THROUGH DECEMBER 1965, DIVIDED INTO
THREE MAIN SECTIONS: SOCIAL SCIENCE RESEARCH,
FOREIGN AREA STUDIES, AND RAPID RESPONSE
INFORMATION AND ANALYSIS. THE BIBLIOGRAPHY IS
INDEXED BY AUTHOR AND BY COUNTRY OR AREA.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-634 139 15/4 5/4 5/3 8/6

DEPARTMENT OF THE ARMY WASHINGTON D C
COMMUNIST CHINA: A STRATEGIC SURVEY. A
BIBLIOGRAPHY.

(U)

FEB 66 149P
REPT. NO. DA-PAM-20-67.

UNCLASSIFIED REPORT

AVAILABILITY: SUPERINTENDENT OF DOCUMENTS, GPO,
WASHINGTON, D. C. 20402, HCS2.25, AS D-101.22120-
67.

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*CHINA, THREAT EVALUATION),
(*POLITICAL SCIENCE, CHINA), (*SOCIOLOGY,
CHINA), (*MILITARY STRATEGY, CHINA),
ABSTRACTS, COMMUNISM, FOREIGN POLICY,
GEOGRAPHY, BIBLIOGRAPHIES, MAPS

(U)

THIS UNCLASSIFIED BIBLIOGRAPHY WAS PREPARED BY
DIRECTION OF THE CHIEF OF STAFF, UNITED
STATES ARMY. IT UPDATES DA PAM 20-61
PUBLISHED IN JANUARY 1962 UNDER THE TITLE,
COMMUNIST CHINA: RUTHLESS ENEMY OR PAPER TIGER.
LIKE ITS PREDECESSOR, THE CURRENT VOLUME PROBES INTO
THE ECONOMIC, SOCIOLOGICAL, MILITARY, AND POLITICAL
FABRIC OF COMMUNIST CHINA AND ILLUMINATES THIS
NEW EMERGING IMAGE. THE MORE THAN 650 ABSTRACTED
ITEMS INCLUDED IN THIS SURVEY WERE SELECTED FROM
SEVERAL THOUSAND BOOKS, MAGAZINE ARTICLES, STUDIES,
AND DOCUMENTS, AVAILABLE ON THE OPEN SHELVES OF THE
ARMY LIBRARY, THE ADJUTANT GENERAL'S
OFFICE. THESE HAVE BEEN SO ARRANGED INTERNALLY,
AS TO LEND THEMSELVES MORE EASILY USEFUL, BY THOSE
WHO ARE CHARGED WITH THE RESPONSIBILITY OF PLANNING
AND MAKING POLICY. THE APPENDED MAPS, CHARTS, AND
DATA HAVE BEEN INCLUDED IN SUPPORT OF THE INFORMATION
IN THE MAIN PART OF THE BIBLIOGRAPHY. THE
SELECTIVE PROCESS DID NOT INCLUDE THE SEPARATION OF
MATERIALS WHICH ARE OBVIOUSLY FRIENDLY TO COMMUNIST
CHINA, THE PREMISE BEING THAT IT WILL SERVE THE
NEEDS OF U. S. BETTER IF THE READER SEES THE
PICTURE FROM BOTH SIDES OF THE BAMBOO CURTAIN.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-636 551 15/7 12/2
MILITARY ACADEMY WEST POINT N Y DEPT OF ELECTRICITY
A BIBLIOGRAPHY OF SEARCH THEORY AND RECONNAISSANCE
THEORY LITERATURE. (U)
JUN 66 27P ENSLOW JR, PHILIP H. I

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PUB. IN NAVAL RESEARCH LOGISTICS
QUARTERLY V13 N2, NAVSO-P-1278 P177-202 JUN 1966.

DESCRIPTORS: (.BIBLIOGRAPHIES, *SEARCH THEORY),
(*AERIAL RECONNAISSANCE, BIBLIOGRAPHIES), GAME
THEORY, OPERATIONS RESEARCH (U)

THIS BIBLIOGRAPHY CONSISTS OF 75 ITEMS ON SEARCH
THEORY AND RECONNAISSANCE THEORY FOUND IN PERIODICALS
AND TECHNICAL REPORTS. EACH ENTRY INCLUDES A SHORT
SUMMARY OR A QUOTATION FROM THE PERTINENT ABSTRACT.
THE ITEMS ARE CLASSIFIED INTO ONE OR MORE OF THE
FOLLOWING CATEGORIES: (1) GENERAL DISCUSSION OF
PROBLEMS; (2) ALLOCATION OF EFFORT; (3)
GAME THEORY FORMULATIONS; (4) GEOMETRIC
SEARCH PATTERNS; (5) MEASURES OF
PERFORMANCE AND (6) MISCELLANEOUS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-640 206 15/3
FEDERAL AVIATION AGENCY WASHINGTON D C
DEFENSE READINESS: SELECTED REFERENCES.
MAR 64 42P
REPT. NO. BIBLIOGRAPHIC LIST-11,

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•CIVIL DEFENSE SYSTEMS,
BIBLIOGRAPHIES), CIVIL DEFENSE PERSONNEL,
TRAINING, FALLOUT SHELTERS, COMMUNICATION
SYSTEMS, TRANSPORTATION, PUBLIC HEALTH,
PSYCHOLOGY, MEDICINE, RADIOLOGICAL
CONTAMINATION, RADIATION MONITORS,
DECONTAMINATION, CIVIL AVIATION, SURVIVAL,
AGRICULTURE, INDUSTRIES

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-642 321 15/7 5/4
AMERICAN UNIV WASHINGTON D C CENTER FOR RESEARCH IN
SOCIAL SYSTEMS
BIBLIOGRAPHY ON COUNTERINSURGENCY, UNCONVENTIONAL
WARFARE, AND PSYCHOLOGICAL OPERATIONS. SUPPLEMENT
NO. 9, (U)
MAY 66 133P CURRIER, NANCY IGOSIER, DENNIS
IBERRY, HEIDI I
CONTRACT: DA-49-092-ARO-7

UNCLASSIFIED REPORT

DESCRIPTORS: (*COUNTERINSURGENCY,
BIBLIOGRAPHIES), (*UNCONVENTIONAL WARFARE,
BIBLIOGRAPHIES), (*PSYCHOLOGICAL WARFARE,
BIBLIOGRAPHIES), COMMUNISTS, MILITARY STRATEGY,
POLITICAL SCIENCE, LOGISTICS,
GOVERNMENT(FOREIGN), MILITARY INTELLIGENCE,
POPULATION, CIVILIAN PERSONNEL, MILITARY
PERSONNEL, GUERRILLA WARFARE, LAW, HISTORY,
WARFARE, AFRICA, ASIA, EUROPE, LATIN
AMERICA, MIDDLE EAST, NORTH AMERICA (U)

CONTENTS: FUNDAMENTAL ELEMENTS OF
COUNTERINSURGENCY; HISTORICAL MODELS OF
COUNTERINSURGENCY; FUNDAMENTAL ELEMENTS OF
PSYCHOLOGICAL OPERATIONS; HISTORICAL MODELS OF
PSYCHOLOGICAL OPERATIONS; FUNDAMENTAL ELEMENTS OF
UNCONVENTIONAL WARFARE; HISTORICAL MODELS OF
UNCONVENTIONAL WARFARE. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-642 362 15/7 5/4
AMERICAN UNIV WASHINGTON D C CENTER FOR RESEARCH IN
SOCIAL SYSTEMS
CINFAC BIBLIOGRAPHIC REVIEW. SUPPLEMENT NO. 10,
AUGUST, 1966, (U)
OCT 66 164P CURRIER, NANCY IGOSIER, DENNIS
IBERRY, HEIDI IBITTICK, MARGARET I
CONTRACT: DA-49-092-ARO-7

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-642 321.

DESCRIPTORS: (COUNTERINSURGENCY,
BIBLIOGRAPHIES), (UNCONVENTIONAL WARFARE,
BIBLIOGRAPHIES), (PSYCHOLOGICAL WARFARE,
BIBLIOGRAPHIES), SOCIAL PSYCHOLOGY, POLITICAL
SCIENCE, ECONOMICS, GUERRILLA WARFARE, MILITARY
INTELLIGENCE, CIVILIAN PERSONNEL, MILITARY
PERSONNEL, HISTORY, ASIA, EUROPE, LATIN
AMERICA, MIDDLE EAST, WARFARE, MILITARY
PSYCHOLOGY, LOGISTICS (U)

CONTENTS: COUNTERINSURGENCY; PSYCHOLOGICAL
OPERATIONS; UNCONVENTIONAL WARFARE; SOCIO-
ECONOMIC-POLITICAL BACKGROUND FACTORS;
REVIEWS; BIBLIOGRAPHIC ESSAY. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-647 887 15/7 5/4
AMERICAN UNIV WASHINGTON D C CENTER FOR RESEARCH IN
SOCIAL SYSTEMS
CINFAC BIBLIOGRAPHIC REVIEW: SUPPLEMENT NO. 11, (U)
NOV 66 95P CURRIER, NANCY IGOSIER, DENNIS
M. BERRY, HEIDI; MORSE, JANET;
BITTICK, MARGARET;
CONTRACT: DA-49-092-ARO-7

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-642 362.

DESCRIPTORS: (COUNTERINSURGENCY,
BIBLIOGRAPHIES), (PSYCHOLOGICAL WARFARE,
BIBLIOGRAPHIES), (UNCONVENTIONAL WARFARE,
BIBLIOGRAPHIES), SOCIOLOGY, POLITICAL SCIENCE,
LEADERSHIP, GUERRILLA WARFARE, INSURGENCY,
PROPAGANDA, HISTORY, REVIEWS, INDEXES (U)

A BIBLIOGRAPHY IS PRESENTED OF UNCLASSIFIED
ENGLISH-LANGUAGE BOOKS AND ARTICLES ON
COUNTERINSURGENCY, UNCONVENTIONAL WARFARE,
PSYCHOLOGICAL OPERATIONS, AND SOCIO-ECONOMIC-
POLITICAL BACKGROUND FACTORS. WITHIN EACH OF THESE
SUBJECT AREAS THE ENTRIES ARE CATEGORIZED AND CROSS-
REFERENCED BY SPECIFIC PROBLEM AND AREA AND INDEXED
BY AUTHOR AND TITLE. IT ALSO INCLUDES BOOK REVIEWS
AND A BIBLIOGRAPHIC ESSAY ON THESE SUBJECTS.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-648 508 15/7
AMERICAN UNIV WASHINGTON D C CENTER FOR RESEARCH IN
SOCIAL SYSTEMS
A SELECTED BIBLIOGRAPHY ON URBAN INSURGENCY AND URBAN
UNREST IN LATIN AMERICA AND OTHER AREAS, (U)
DEC 66 49P FALLAH, SKAIDRIE MALIKS ;
REPT. NO. CRESS/CINFAC-R-0603
CONTRACT: DA-49-092-ARO-7

UNCLASSIFIED REPORT

DESCRIPTORS: (INSURGENCY, URBAN AREAS),
(LATIN AMERICA, INSURGENCY),
BIBLIOGRAPHIES, POLITICAL SCIENCE, ECONOMICS (U)

SELECTED SOURCES ARE INCLUDED ON URBAN INSURGENCY
AND URBAN UNREST IN LATIN AMERICA AND OTHER
AREAS. SOURCES INCLUDE MATERIAL ON CONDITIONS
CONDUCTIVE TO URBAN UNREST AND ON THE RELATIONSHIP
BETWEEN RAPID URBANIZATION AND THE POTENTIAL FOR
URBAN UNREST. SOURCES CITED CONSIST OF
BIBLIOGRAPHIES, DOCUMENTS, BOOKS, MONOGRAPHS, AND
ARTICLES. WHEREVER DATA WERE READILY AVAILABLE,
THE SOURCES WERE ANNOTATED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-654 795 15/7 5/4
AMERICAN UNIV WASHINGTON D C CENTER FOR RESEARCH IN
SOCIAL SYSTEMS
CIVFAC BIBLIOGRAPHIC REVIEW SUPPLEMENT NO. 12, (U)
FEB 67 139P CURRIER, NANCY BERRY, HEIDI I
HORSE, JANET I
CONTRACT: DA-49-092-ARO-7

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-647 887.

DESCRIPTORS: (COUNTERINSURGENCY,
BIBLIOGRAPHIES), (PSYCHOLOGICAL WARFARE,
BIBLIOGRAPHIES), (UNCONVENTIONAL WARFARE,
BIBLIOGRAPHIES), SOCIOLOGY, POLITICAL SCIENCE,
LEADERSHIP, GUERRILLA WARFARE, INSURGENCY,
PROPAGANDA, HISTORY, REVIEWS, INDEXES (U)

A BIBLIOGRAPHY IS PRESENTED OF UNCLASSIFIED
ENGLISH-LANGUAGE BOOKS AND ARTICLES ON
COUNTERINSURGENCY, UNCONVENTIONAL WARFARE,
PSYCHOLOGICAL OPERATIONS, AND SOCIOECONOMIC-POLITICAL
BACKGROUND FACTORS. WITHIN EACH OF THESE SUBJECT
AREAS THE ENTRIES ARE CATEGORIZED AND CROSS-
REFERENCED BY SPECIFIC PROBLEM AND AREA AND INDEXED
BY AUTHOR AND TITLE. IT ALSO INCLUDES BOOK REVIEWS
AND A BIBLIOGRAPHIC ESSAY ON THESE SUBJECTS.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-656 465 15/7 5/4
AMERICAN UNIV WASHINGTON D C CENTER FOR RESEARCH IN
SOCIAL SYSTEMS
CINFAC BIBLIOGRAPHIC REVIEW: SUPPLEMENT NO. 13, (U)
MAY 67 110P CURRIER, NANCY IBERRY, HEIDI I
HORSE, JANET IBITTICK, MARGARET I
CONTRACT: DA-49-092-ARO-7

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-654 795.

DESCRIPTORS: (COUNTERINSURGENCY,
BIBLIOGRAPHIES), (PSYCHOLOGICAL WARFARE,
BIBLIOGRAPHIES), (UNCONVENTIONAL WARFARE,
BIBLIOGRAPHIES), SOCIOLOGY, POLITICAL SCIENCE,
LEADERSHIP, GUERRILLA WARFARE, INSURGENCY,
PROPAGANDA, HISTORY, REVIEWS, INDEXES (U)

THE REPORT CONSISTS OF A BIBLIOGRAPHY OF
UNCLASSIFIED ENGLISH-LANGUAGE BOOKS AND ARTICLES ON
COUNTERINSURGENCY, UNCONVENTIONAL WARFARE,
PSYCHOLOGICAL OPERATIONS, AND SOCIAL, ECONOMIC, AND
POLITICAL BACKGROUND FACTORS. WITHIN EACH OF THESE
SUBJECT AREAS THE ENTRIES ARE CATEGORIZED AND CROSS-
REFERENCED BY SPECIFIC PROBLEM AND AREA AND INDEXED
BY AUTHOR AND TITLE. THE BIBLIOGRAPHY ALSO
INCLUDES BOOK REVIEWS AND A BIBLIOGRAPHIC ESSAY ON
THESE SUBJECTS. (AUTHOR) (U)

MISSILE TECHNOLOGY

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-419 588

ARMY MISSILE COMMAND REDSTONE ARSENAL ALA
LIST OF TECHNICAL DOISHED DURING THE YEARS 1958
THROUGH 1962.

(U)

APR 63 178P

UNCLASSIFIED REPORT

DESCRIPTORS: (*BIBLIOGRAPHIES, GUIDED MIS
SILES), (*GUIDED MISSILES, BIBLIOGRAPHIES),
GUIDED MISSILES (SURFACE TO SURFACE), ROCKET
MOTORS, ANTITANK AMMUNITION, ROCKET MOTORS
(LIQUID PROPELLANT), ROCKET MOTORS (SOLID
PROPELLANT), LAUNCH VEHICLES (AEROSPACE),
GUIDED MISSILE WARHEADS, INDEXES.

(U)

IDENTIFIERS: 1963, JUPITER, ATLAS, REDSTONE,
PERSHING, SATURN, SERGEANT.

(U)

A BIBLIOGRAPHY OF TECHNICAL DOCUMENTS LISTS TITLES
OF REPORTS PUBLISHED FROM 1958 THROUGH 1962 BY THE
PRESENT ARMY MISSILE COMMAND (AMICOM), WHICH
INCLUDES THE ACTIVITIES OF THE ARMY ROCKET AND
GUIDED MISSILE AGENCY (ARGMA) AND THE ARMY
BALLISTIC MISSILE AGENCY (ABMA). THE
BIBLIOGRAPHY WAS COMPILED FROM LIBRARY RECORDS AND
RESPONSES TO REQUESTS FOR DOCUMENT LISTINGS FROM THE
RE SEARCH AND DEVELOPMENT ORGANIZATIONS OF THE
COMMAND, AND MAKES NO PRETENSE OF BEING A COMPLETE
COVERAGE. DUE TO PROPRIETARY INFORMATION
RESTRICTIONS, THE FORMATION AND LATER CONSOLIDATION
OF ABMA AND ARGMA, AND THE FORMATION OF NASA'S
MARSHALL SPACE FLIGHT CENTER, MANY REPORTS
WERE NEVER ENTERED OR RECORDED IN THE LIBRARY. FOR
EXAMPLE, IT IS KNOWN THERE WERE APPROXIMATELY 35
REPORTS IN THE 4RF SERIES WHICH WERE EVALUATIONS OF
MAJOR INDUSTRIAL TECHNICAL PROPOSALS WHICH DO NOT
APPEAR IN THIS PUBLISHED LISTING. UNDOUBTEDLY,
MANY REPORTS WRITTEN BY PERSONS WHO HAVE LEFT THE
COMMAND WERE LIKEWISE NOT ENTERED IN THE LIBRARY
AND WERE NOT INCLUDED IN THE SOLICITED SUBMISSIONS.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-426 021

DEPARTMENT OF THE ARMY WASHINGTON D C
MISSILES AND VENTURES INTO SPACE PROGRESS REPORT.
1962-1963.

(U)

DESCRIPTIVE NOTE: REPT. MAY 62-MAY 63.

OCT 63 123P

MONITOR: DA PAM70 5 11

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ALSO AVAILABLE FROM GOVERNMENT
PRINTING OFFICE, WASHINGTON, D. C., PRICE \$.70.

DESCRIPTORS: (*GUIDED MISSILES, BIBLIOGRAPHIES),
(*SPACECRAFT, BIBLIOGRAPHIES), (*BIBLIOGRAPHIES,
ASTRONAUTICS), ROCKETS, SATELLITES (ARTIFICIAL), SPACE
PROBES, POLITICAL SCIENCE, ROCKET PROPULSION, SPACE
ENVIRONMENT CONDITIONS, EXPLORATION, WARFARE, SPACE
PROPULSION, ARMED FORCES (FOREIGN), SPACE STATIONS,
GUIDED MISSILES (SURFACE-TO-SURFACE), SPACE FLIGHT (U)
IDENTIFIERS: 1963, USSR, CUBA (U)

CONTENTS: TRENDS IN THE NATIONAL EFFORT,
MISSILE/ SPACE PROJECTS AND PROGRAMS: NASA;
ACTIVITIES AND PROGRAMS, ARMED FORCES;
MISSILE SITES, BASES, RANGES, AND
FACILITIES: OTHER FREE NATIONS-MISSILE AND
SPACE EFFORTS: USSR: TRENDS AND DEVELOPMENTS
IN MISSILES, ROCKETS, AND SPACE VEHICLES;
SPACE EXPLORATION: NEW VISTAS: SPACE AS A
BATTLEFIELD: ARMS CONTROL AND DISARMAMENT
ASPECTS: CONGRESSIONAL HEARINGS AND
DOCUMENTS: SOURCE MATERIALS AND REFERENCE
WORKS: THE POLITICO-MILITARY ASPECTS OF
SOVIET MISSILES IN THE CUBAN CRISIS,
RUSSIA'S MISSILES, SPACE BOOSTERS, SPACE
VEHICLES, SATELLITES CARRYING EQUIPMENT FOR
METEOROLOGICAL OBSERVATIONS: SPACE RACE TIMETABLE
FOR THE COSMIC SIXTIES: THE INTERNATIONAL SPACE
RACE: UNITED STATES SPACE AND MISSILE
PROGRAMS: FUNCTIONAL ORGANIZATION OF THE
FEDERAL GOVERNMENT-CHART. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-450 187

HERCULES POWDER CO MAGNA UTAH

BIBLIOGRAPHY REPORT, WEAPON SYSTEM 133A.

(U)

DESCRIPTIVE NOTE: FINAL REPT.

OCT 64 IV

REPT. NO. MCS2 9B

CONTRACT: AF04 647 243

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUPERSEDES REPORTS DATED JAN 61,
AD 269 2281 AND 16 SEP 63, AD 424 942.

DESCRIPTORS: (*GUIDED MISSILES (SURFACE-TO-SURFACE),
BIBLIOGRAPHIES), (*BIBLIOGRAPHIES, GUIDED MISSILES
(SURFACE-TO-SURFACE)), ROCKET MOTORS (SOLID
PROPELLANT), ROCKET PROPELLANT GRAINS, DESIGN,
MANUFACTURING METHODS, MANAGEMENT ENGINEERING, SYSTEMS
ENGINEERING, ROCKET MOTOR NOZZLES, ROCKET CASES,
QUALITY CONTROL, TESTS, TRANSPORTATION, HANDLING,
SPECIFICATIONS

(U)

THIS BIBLIOGRAPHY IS DIVIDED INTO FIVE PARTS:
PART 1, MINUTEMAN TECHNICAL OPERATING
REPORTS; PART 2, MINUTEMAN TECHNICAL
INFORMATION REPORTS; PART 3, MINUTEMAN
CONTRACT STATUS REPORTS; PART 4, MINUTEMAN
TECHNICAL DOCUMENTARY REPORTS; AND PART 5,
MODEL AND GENERAL SPECIFICATIONS. EACH PART
IS DIVIDED INTO SECTIONS BY KINDS OF REPORTS.
(AUTHOR)

(U)

NAVIGATION, COMMUNICATIONS, DETECTION,

AND COUNTERMEASURES

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000342

AD-412 427

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

UNDERGROUND COMMUNICATIONS. ANNOTATED BIBLIOGRAPHY
OF SOVIET-BLOC LITERATURE FOR THE PERIOD 1960-
1962. (U)

JUL 63 19P

REPT. NO. D-63-99

UNCLASSIFIED REPORT

DESCRIPTORS: (BIBLIOGRAPHIES, GEOPHYSICS),
(GEOPHYSICS, GEOPHYSICAL PROSPECTING), ELEC
TROMAGNETIC FIELDS, TERRAIN, THEORY, TERRESTRIAL
MAGNETISM, RESISTANCE (ELECTRICAL), ELECTRIC
CURRENT. (U)

IDENTIFIERS: 1963, USSR, TELLURIC CURRENT
METHOD. (U)

THIS ANNOTATED BIBLIOGRAPHY HAS BEEN PREPARED IN
RESPONSE TO AID WORK ASSIGNMENT NO. 37, TASK
4. THE BIBLIOGRAPHY COVERS THE PERIOD FROM
JANUARY 1960 TO DECEMBER 1962. THE MATERIALS
ARE DIVIDED INTO THREE GROUPS, EACH CONTAINING
INFORMATION PUBLISHED DURING ONE PARTICULAR YEAR.
WITHIN EACH GROUP THE MATERIALS ARE PRESENTED
ALPHABETICALLY ACCORDING TO THE AUTHOR'S NAME.
INFORMATION NOT DIRECTLY RELATED TO THE ASSIGNED
SUBJECT HAS BEEN INCLUDED BECAUSE OF ITS BROAD
IMPLICATIONS FOR STUDY IN THIS FIELD. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-424 026

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

TRACKING OF MISSILES AND SPACE VEHICLES. COMPILATION
OF ABSTRACTS. (U)

NOV 63 23P

MONITOR: AIC P63 110

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•TRACKING, BIBLIOGRAPHIES),
(•BIBLIOGRAPHIES, TRACKING), (•RADIO ASTRONOMY,
BIBLIOGRAPHIES), RADAR TRACKING, IONOSPHERIC
PROPAGATION, IONOSPHERIC DISTURBANCES, MOON, RADIO
FIELDS, RADIO TRANSMISSION, RADIO WAVES,
EXTRATERRESTRIAL RADIO WAVES, ELECTRON DENSITY,
SATELLITES (ARTIFICIAL), RADAR REFLECTIONS, DOPPLER
EFFECT, GAS IONIZATION, VENUS, MERCURY (PLANET),
JUPITER (U)

IDENTIFIERS: 1963, USSR, JUPITER (U)

THIS TWENTIETH REPORT IN A SERIES REVIEWING
SOVIET DEVELOPMENTS IN TRACKING MISSILES AND SPACE
VEHICLES IS BASED ON SOURCE MATERIALS RECEIVED AT THE
AEROSPACE INFORMATION DIVISION FROM JANUARY
1963 THROUGH MAY 1963. INFORMATION NOT DIRECTLY
RELATED TO THE ASSIGNED SUBJECT HAS BEEN INCLUDED
BECAUSE OF ITS BROAD IMPLICATIONS FOR STUDY IN THIS
FIELD. TOPICS COVERED IN THIS REPORT ARE (1)
ION CLOUDS AND IONOSPHERE PERTURBATIONS AND (2)
RADIO ASTRONOMY. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-429 301

GENERAL MOTORS CORP MILWAUKEE WIS AC SPARK PLUG DIV
INERTIAL GUIDANCE SYSTEM PROGRAM 624A - TITAN
III.

(U)

SP

REPT. NO. 63 212 109
CONTRACT: AFO4 695 282

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, INERTIAL (GUIDANCE)),
(INERTIAL GUIDANCE, BIBLIOGRAPHIES), CONFIGURATION,
MAINTAINABILITY, RELIABILITY, LAUNCH VEHICLES
(AEROSPACE), ERRORS, WEIGHT, LOGISTICS,
INSTRUMENTATION, BOOSTER MOTORS

(U)

IDENTIFIERS: 1963, TITAN III

(U)

INERTIAL GUIDANCE SYSTEM PROGRAM 624A-TITAN IIII
BIBLIOGRAPHY REPORT.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-430 520

ARACON GEOPHYSICS CO CONCORD MASS
WEATHER RADAR RESEARCH AND STORM DYNAMICS.

(U)

DESCRIPTIVE NOTE: FINAL REPT.,

DEC 63 45P WEXLER, RAYMOND I

REPT. NO. F9186 3

CONTRACT: AF19 628 292

PROJ: 6672

TASK: 667203

MONITOR: AFCL

64 202

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*METEOROLOGICAL RADAR, STORMS),
(*WEATHER FORECASTING, METEOROLOGICAL RADAR),
(*STORMS, BIBLIOGRAPHIES), TORNADOES, CYCLONES,
METEOROLOGY, ATMOSPHERIC PRECIPITATION, RAINFALL,
WIND, TROPICAL CYCLONES, HAIL

(U)

IDENTIFIERS: 1963, HURRICANE ESTHER

(U)

THE FOLLOWING TOPICS ARE DISCUSSED: RADAR
ANALYSIS OF HURRICANE ESTHER 1961, CROSSING
ANGLES IN HURRICANE BANDS, AND ORIGIN OF A
TORNADO'S ROTATION. A COMPLETE LIST OF OTHER
REPORTS WITH ABSTRACTS, PUBLISHED IN CONNECTION WITH
THIS RESEARCH, IS INCLUDED.

(U)

UNCLASSIFIED

CDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-460 105

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY

DIV

VLF COMMUNICATIONS. ANNOTATED BIBLIOGRAPHY. (U)

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

AUG 64 3P

REPT. NO. ATD-U-64-94

TASK: 27

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BIBLIOGRAPHIES, VERY LOW FREQUENCY),
(•VERY LOW FREQUENCY, BIBLIOGRAPHIES), USSR,
IONOSPHERIC PROPAGATION, ATTENUATION, REFRACTION,
ELECTROMAGNETIC WAVES (U)

VLF COMMUNICATION - ANNOTATED BIBLIOGRAPHY.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-462 686

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF

SOLAR NAVIGATION.

(U)

DESCRIPTIVE NOTE: SPECIAL BIBLIOGRAPHY,

SEP 59 9P CARROLL, K. D. I

REF. NO. SB-59-47

UNCLASSIFIED REPORT

DISTRIBUTION: MICROFICHE ONLY AFTER ORIGINAL COPIES
EXHAUSTED.

SUPPLEMENTARY NOTE:

DESCRIPTORS: (SPACE NAVIGATION, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, SPACE NAVIGATION), CELESTIAL
NAVIGATION, CELESTIAL GUIDANCE, MIDCOURSE GUIDANCE,
SPACECRAFT

(U)

IDENTIFIERS: SOLAR NAVIGATION

(U)

SOLAR NAVIGATION. BIBLIOGRAPHY.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-470 441

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

TRACKING OF MISSILES AND SPACE VEHICLES. COMPILATION
OF ABSTRACTS. (U)

DESCRIPTIVE NOTE: SURVEYS OF SOVIET-BLOC SCIENTIFIC
AND TECHNICAL LITERATURE, NOV 64-MAR 65.

SEP 65 46P

REPT. NO. ATD-P-65-51, 24

UNCLASSIFIED REPORT

DESCRIPTORS: (*TRACKING, GUIDED MISSILES),
(*BIBLIOGRAPHIES, TRACKING), (*SPACECRAFT,
TRACKING), IONIZATION, IONOSPHERIC
DISTURBANCES, USSR, ELECTRON DENSITY,
DIFFUSION, ELECTRIC FIELDS, PLASMA MEDIUM,
METEORS, RADIO SIGNALS, SATEL
LITES(ARTIFICIAL), MAGNETIC FIELDS, SHOCK
WAVES, SOLAR RADIATION, COSMIC RAYS,
STRATOSPHERE, MICROWAVES, INSTRUMENTATION,
RADIO ASTRONOMY, ANTENNAS, CAMERAS, SPACE
PROBES, CHARGED PARTICLES,
BEAMS(ELECTROMAGNETIC), MASERS, LASERS,
RUBY

(U)

CONTENTS: ION CLOUDS AND IONOSPHERIC
PERTURBATIONS; RADIO ASTRONOMY -- RADIO
EMISSION AND ANTENNAS; LASERS AND MASERS;
BIBLIOGRAPHY.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-601 421

NATIONAL CASH REGISTER CO DAYTON OHIO
SIMULATION AND EVALUATION OF PHONETIC SPEECH
RECOGNITION TECHNIQUES. VOL. IV. AN INDEXED
BIBLIOGRAPHY ON SPEECH ANALYSIS, SYNTHESIS, AND
PROCESSING. (U)

DESCRIPTIVE NOTE: FINAL REPT.

APR 64 105P OTTEN, KLAUS W. I

REPT. NO. 11 IF21V

CONTRACT: AF33 657 9205 , PROJ.

PROJ: TASK

MONITOR: RTD

TDR63 4005 V4

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•SPEECH RECOGNITION, SIMULATION),
(•BIBLIOGRAPHIES, SPEECH), SPEECH REPRESENTATION,
COMMUNICATION THEORY, ANALYSIS, SYNTHESIS, INDEXES (U)

THE REPORT, AN INDEXED BIBLIOGRAPHY ON SPEECH
ANALYSIS, SYNTHESIS, AND PROCESSING, WAS PREPARED IN
CONNECTION WITH A LITERATURE SEARCH REQUIRED FOR AN
APPLIED RESEARCH PROGRAM ON AUTOMATIC SPEECH
RECOGNITION. THE BIBLIOGRAPHY LISTS PUBLICATIONS
CONCERNED WITH SPEECH ANALYSIS, SYNTHESIS, AND
PROCESSING WHICH APPEARED PRIOR TO JANUARY 1964.
THE BIBLIOGRAPHY, THOUGH PERHAPS NOT ABSOLUTELY
COMPLETE, LISTS MORE THAN 1000 PUBLICATIONS.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-615 936

CENTRAL RADIO PROPAGATION LAB NATIONAL BUREAU OF STANDARDS
BOULDER COLO

BIBLIOGRAPHY ON TROPOSPHERIC PROPAGATION OF RADIO
WAVES, (U)

APR 65 346P NUPEN, WILHELM I
REPT. NO. TN-304

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH
AMERICAN METEOROLOGICAL SOCIETY, WASHINGTON, D. C.

DESCRIPTORS: (*BIBLIOGRAPHIES, RADIO WAVES),
(*RADIO WAVES, PROPAGATION), (*TROPOSPHERE,
PROPAGATION), RADIOFREQUENCY, ELECTROMAGNETIC
WAVES (U)

THIS BIBLIOGRAPHY CONTAINS OVER A THOUSAND
ABSTRACTS OR TITLES TAKEN FROM THE LITERATURE
PUBLISHED BETWEEN 1945 AND 1964, INCL., BUT THE BULK
OF THE LITERATURE COMES AFTER 1955. THE SUBJECT
MATTER IS CONFINED TO THE EFFECTS OF THE EARTH'S
ATMOSPHERE ON RADIOFREQUENCY RADIATION FROM 10 CPS TO
100,000 MC. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-626 405 17/10 8/11 18/3
GEOTECH DIV TELEDYNE INDUSTRIES INC GARLAND TEX
BIBLIOGRAPHY OF ARRAY LITERATURE. (U)
DESCRIPTIVE NOTE; TECHNICAL REPT.
NOV 65 52P
REPT. NO. TR-65-114
CONTRACT: AF33(657)-12145
PROJ: AFTAC-VT/4051

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUPPORTED IN PART BY ARPA.

DESCRIPTORS: (SEISMOMETERS, SITE SELECTION),
(NUCLEAR EXPLOSIONS, UNDERGROUND EXPLOSIONS),
(UNDERGROUND EXPLOSIONS, SEISMOLOGY),
(SEISMOLOGY, BIBLIOGRAPHIES), SEISMIC WAVES,
MONITORS, ACOUSTICS, RADIO EQUIPMENT, ANTENNA
ARRAYS, SONAR EQUIPMENT, DATA PROCESSING
SYSTEMS, EXPERIMENTAL DATA, ABSTRACTS (U)
IDENTIFIERS: VELA-UNIFORM (U)

A BIBLIOGRAPHY OF AVAILABLE LITERATURE ON ARRAY
TECHNOLOGY HAS BEEN COMPILED, EMBRACING THE
DISCIPLINES OF SEISMOLOGY, ACOUSTICS, AND RADIO.
OVER ONE HUNDRED ARTICLES FROM VARIOUS SCIENTIFIC
JOURNALS ARE LISTED. MOST OF THE ARTICLES ARE
ABSTRACTED AND ARE GROUPED ACCORDING TO A MAJOR
CATEGORY, FIELD OF APPLICATION, AND A
SUBCATEGORY, CHARACTER OF CONTENT. THE
MAJORITY OF THE ARTICLES WERE PUBLISHED DURING THE
PERIOD 1955-1956. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-642 763 17/2 5/7 9/4
MICHIGAN UNIV ANN ARBOR
RESEARCH ON SPEECH COMMUNICATION AND AUTOMATIC SPEECH
RECOGNITION. (U)
DESCRIPTIVE NOTE: FINAL REPT. 15 JAN-31 JUL 66,
AUG 66 22P PETERSON, GORDON E. I
SHOUP, JUNE E. I
CONTRACT: AF-AFOSR-595-66
PROJ: AF-9769
TASK: 976902
MONITOR: AFOSR 66-2692

UNCLASSIFIED REPORT

DESCRIPTORS: (SPEECH RECOGNITION, AUTOMATIC),
SPEECH, COMMUNICATION SYSTEMS, LANGUAGE,
LINGUISTICS, PHONETICS, GRAMMARS, SYNTAX,
INFORMATION THEORY, ACOUSTICS, ENGLISH LANGUAGE,
BIBLIOGRAPHIES (U)

THE REPORT REVIEWS FOUR MAJOR AREAS OF RESEARCH.
THE FIRST AREA IS CONCERNED WITH THE THEORY OF
PHONOLOGY WHICH HAS INCLUDED THE DEVELOPMENT OF
PHYSIOLOGICAL AND ACOUSTIC PHONETIC THEORIES, AND
WORK ON A FORMAL THEORY OF PHONEMICS. THE SECOND
AREA IS CONCERNED WITH THE LINGUISTIC INTERPRETATION
OF THE SPEECH WAVE. IT IS SUGGESTED THAT IT IS
MORE REALISTIC TO ATTEMPT TO INTERPRET THE SPEECH
WAVE TYPES AND THE ACOUSTICAL PARAMETERS OF SPEECH
ACCORDING TO SETS OF PHONE TYPES RATHER THAN DIRECTLY
AS PHONEMES. THE THIRD AREA OF INVESTIGATION IS
CONCERNED WITH THE PHONOLOGICAL DESCRIPTION OF
LANGUAGES, PARTICULARLY MIDWESTERN AMERICAN
ENGLISH. SUCH A DESCRIPTION INCLUDES A STATEMENT
OF THE PHONEMES AND THEIR ASSOCIATED ALLOPHONES, A
STATEMENT OF THE PHONE TYPE ENVIRONMENTS OF THE
VARIOUS ALLOPHONES, AND A STATEMENT OF THE ALLOWABLE
PHONEME SEQUENCES. THE FOURTH AREA OF INVESTIGATION
CONCERNS LEXICAL PROCEDURES IN AUTOMATIC SPEECH
RECOGNITION. THE REPORT INCLUDES SUMMARIES OF
RECENT PUBLICATIONS UNDER THE GRANT AND A
BIBLIOGRAPHY OF ARTICLES AND REPORTS WHICH HAVE BEEN
PUBLISHED BY THE COMMUNICATION SCIENCES
LABORATORY UNDER THE SPONSORSHIP OF THE
DIRECTORATE OF INFORMATION SCIENCES.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-644 417 17/7 1/2
LOCKHEED-GEORGIA CO MARIETTA
PLAN FOR THE DEVELOPMENT OF ALL WEATHER LANDING
SYSTEM RELIABILITY ANALYSIS AND CRITERIA, PHASE
I, (U)
JAN 66 117P ADKINS, L. A. ISCHILLER, L. D. I
THATRO, M. C. I
REPT. NO. ER-8316
CONTRACT: FA-1376
PROJ: FAA-320-207-01N
MONITOR: FAA-RD 66-2

UNCLASSIFIED REPORT

DESCRIPTORS: (•AIR TRAFFIC CONTROL SYSTEMS,
RELIABILITY), LANDINGS, SYSTEMS ENGINEERING,
AVIATION SAFETY, INSTRUMENT LANDINGS, HUMAN
ENGINEERING, BIBLIOGRAPHIES (U)

THE REPORT OUTLINES THE BASIC PLAN AND APPROACH
WHICH WILL BE USED FOR GENERATION OF AN AWLS
ASSESSMENT CRITERIA AND EVALUATION METHODOLOGY.
THE CRITERIA AND METHODOLOGY TO BE FORMULATED WILL
BE FOR APPLICATION ON THE CATEGORY III AWLS
GROUND-BASED SYSTEM, WHICH WILL BE PHASE II OF
THE STUDY PROGRAM, AND FOR THE AIRBORNE PORTIONS OF
THE SYSTEM, WHICH WILL BE TREATED IN PHASE III OF
THE PROGRAM. OF PARTICULAR SIGNIFICANCE IS THE
CONSIDERATION OF SAFETY, RELIABILITY, AND TOTAL
PERFORMANCE EVALUATION. THE PHASE I REPORT
PRESENTS A COMPLETE BIBLIOGRAPHY ON AWLS
TECHNOLOGY. IN ADDITION, TREATMENT IS PRESENTED
ON THE APPLICATIONS OF RELIABILITY, HUMAN FACTORS,
SAFETY, QUANTIFICATION, AND TOTAL PERFORMANCE FOR THE
EVALUATION OF ALL WEATHER LANDING SYSTEMS.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-645 074 17/2 5/10
ARMY MEDICAL RESEARCH LAB FORT KNOX KY
SPEAKER RECOGNITION, SPEECH CHARACTERISTICS, SPEECH
EVALUATION, AND MODIFICATION OF SPEECH SIGNAL. A
SELECTED BIBLIOGRAPHY, (U)
OCT 65 15P HOLMGREN, GARY L. 1
PROJ: DA-3A014501A740
MONITOR: USAMRL 692

UNCLASSIFIED REPORT
AVAILABILITY: PUBLISHED IN IEEE TRANSACTIONS ON
AUDIO AND ELECTROACOUSTICS VOA-14 N1 P32-39 MAR
1966.

DESCRIPTORS: (SPEECH RECOGNITION,
BIBLIOGRAPHIES), (VOICE COMMUNICATION SYSTEMS,
SPEECH RECOGNITION), SPEECH TRANSMISSION,
ANALYSIS, INTELLIGIBILITY, SPEECH,
PSYCHOACOUSTICS, PSYCHOPHYSIOLOGY, MASKING,
PHONETICS, LINGUISTICS, SYNTHESIS, VOCODERS (U)

THE PAPER REPRESENTS AN EFFORT TO UPDATE AND EXPAND
AN EARLIER PAPER, 'SPEECH ANALYSIS, SYNTHESIS,
AND PROCESSING--A SELECTED BIBLIOGRAPHY,'
PREPARED AND PUBLISHED BY THIS AUTHOR AT TEXAS
INSTRUMENTS, INC., DALLAS, TEXAS, 1963.
SELECTIONS INCLUDED IN THIS PAPER PROVIDE THE
RESEARCHER WITH A FAIRLY EXTENSIVE AND REPRESENTATIVE
PRESENTATION OF RELEVANT SOURCE MATERIAL IN THE AREAS
TO WHICH THE TITLE REFERS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-647 888 17/9 17/8 16/2 22/3
LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV
TRACKING OF MISSILES AND SPACE VEHICLES. (U)
DESCRIPTIVE NOTE: REPT. NO. 12 ON WORK ASSIGNMENT NO. 12,
DEC 66 90P HIBBEN, STUART I
REPT. NO. ATD-66-140
MONITOR: TT 67-61162

UNCLASSIFIED REPORT

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

DESCRIPTORS: (•GUIDED MISSILE TRACKING SYSTEMS,
REVIEWS), (•SPACE SURVEILLANCE SYSTEMS,
REVIEWS), SATELLITE TRACKING SYSTEMS, RADIO
ASTRONOMY, SPACE COMMUNICATION SYSTEMS, LASERS,
COMPUTERS, ANTENNAS, SPACE NAVIGATION,
ABSTRACTS, BIBLIOGRAPHIES, USSR, EASTERN
EUROPE, CHINA (U)

THE 81 ABSTRACTS ARE ARRANGED ALPHABETICALLY BY
AUTHOR WITHIN THE FOLLOWING CATEGORIES: (1)
TRACKING FACILITIES AND INSTITUTIONS (3
ENTRIES); (2) TRACKING EQUIPMENT AND
TECHNIQUES (14 ENTRIES); (3) PRECISION
BASELINE ESTABLISHMENT (3 ENTRIES); (4)
SLANT RANGE AND RANGE RATE MEASUREMENT (1
ENTRY); (5) ANGLE AND ANGULAR RATE
MEASUREMENT (4 ENTRIES); (6) ABSOLUTE TIME
MEASUREMENT (2 ENTRIES); (7) FREQUENCY
MEASUREMENT AND STANDARDS (7 ENTRIES); (8)
RELATIVE TIME OR DELAY TIME MEASUREMENT (6
ENTRIES); (9) VELOCITY OF LIGHT
DETERMINATION (2 ENTRIES); (10) RADIO
ASTRONOMY (15 ENTRIES); (11)
TECHNOLOGICAL ADVANCES (24 ENTRIES). A
BIBLIOGRAPHY COMPRISING 81 ENTRIES IS PRESENTED AT
THE END OF THE REPORT. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-651 308 17/2 9/4 5/2
REDSTONE SCIENTIFIC INFORMATION CENTER REDSTONE ARSENAL
ALA
STUDIES OF RANDOM NOISE: AN ANNOTATED
BIBLIOGRAPHY, (U)
DEC 66 SIP ECKSTEIN, HERBERT P. I
REPT. NO. RSIC-619

UNCLASSIFIED REPORT

DESCRIPTORS: (*NOISE, *BIBLIOGRAPHIES),
INFORMATION THEORY, COMMUNICATION EQUIPMENT,
NOISE(RADIO), SIGNALS, LIMITERS,
RADIOFREQUENCY INTERFERENCE, CORRELATORS,
STATISTICAL ANALYSIS, INDEXES (U)

THE BIBLIOGRAPHY CONTAINS A SELECTION OF PAPERS,
MOST OF THEM ANNOTATED, ON NOISE AND THE EFFECTS OF
NOISE ON SIGNALS. CONSEQUENTLY, SEVERAL SURVEYS OF
INFORMATION THEORY AND PAPERS DEALING WITH
INTERDEPENDENT ASPECTS ARE INCLUDED. SOURCES OF
THE CONTEMPLATED NOISE WERE EITHER ENVIRONMENTAL OR
INHERENT IN THE EQUIPMENT, WHICH INCLUDES EFFECTS OF
BOTH THE ATMOSPHERE AND OTHER TRANSMITTERS.
ACCORDINGLY, SEVERAL STUDIES INCLUDE NON-GAUSSIAN
AS WELL AS GAUSSIAN NOISE. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-800 110 17/3

SOUTHWEST RESEARCH INST SAN ANTONIO TEX
ABSTRACTS OF THE AVAILABLE LITERATURE ON RADIO
DIRECTION FINDING 1899-1965, (U)

JUL 66 487P TRAVERS, DOUGLAS N. I

HIXON, STUART M. I

CONTRACT: NOBSR-64585, NOBSR-85086

TASK: 21

UNCLASSIFIED REPORT

DESCRIPTORS: (*DIRECTION FINDING, *ABSTRACTS),
(*RADIO EQUIPMENT, DIRECTION FINDING),
(*BIBLIOGRAPHIES, DIRECTION FINDING), INDEXES (U)

ABSTRACTS OF ALL AVAILABLE DOCUMENTS AND LITERATURE, OTHER THAN PATENTS, ON RADIO DIRECTION FINDING AND CLOSELY RELATED SUBJECTS HAVE BEEN COLLECTED OVER A TEN-YEAR PERIOD BY THE RADIO DIRECTION FINDING RESEARCH STAFF OF SOUTHWEST RESEARCH INSTITUTE. THE COLLECTION IS PRESENTED IN CHRONOLOGICAL ORDER AND INCLUDES MATERIAL FROM FORMAL JOURNALS, TECHNICAL REPORTS, MAGAZINES, BOOKS, TRADE PUBLICATIONS, AND OTHER SOURCES. NO DIRECTION FINDING MATERIAL HAS BEEN PURPOSELY OMITTED EXCEPT WHERE IT HAS NOT BEEN POSSIBLE TO OBTAIN DECLASSIFICATION OF TITLES. A DETAILED SUBJECT INDEX, AN AUTHOR INDEX, AND A LIST OF SOURCES ARE PROVIDED. SEVERAL WELL-KNOWN EXISTING BIBLIOGRAPHIES AND ABSTRACT COLLECTIONS WERE USED AS AN INITIAL BASIS, ALTHOUGH NO INTERVAL BETWEEN 1899 AND DECEMBER 1965 WAS EXCLUDED FROM SEARCH BECAUSE OF PREVIOUS SEARCHES AND PUBLICATIONS. SUCH RESEARCHING WAS NECESSARY BECAUSE OF THE TREND IN RECENT YEARS FOR RADIO DIRECTION FINDING DEVELOPMENTS TO DEPEND INCREASINLY ON INFORMATION IN FIELDS WHICH AT AN EARLY DATE SEEMED UNRELATED TO THE SUBJECT. THE POSSIBILITY OF OMISSIONS FOR THE MOST RECENT YEARS IS RECOGNIZED, PARTICULARLY SINCE 1960. READERS ARE INVITED TO CALL OMISSIONS TO THE ATTENTION OF THE AUTHORS FOR PUBLICATION OF A REVISED COLLECTION AT A LATER TIME. (AUTHOR) (U)

NUCLEAR SCIENCE AND TECHNOLOGY

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-405 134

BATTELLE MEMORIAL INST COLUMBUS OHIO RADIATION EFFECTS
INFORMATION CENTER

MONTHLY ACCESSION LIST. ABSTRACTS, PART 1. (U)

APR 63 42P

MONITOR: REIC AL 62

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: *RADIATION EFFECTS, MATERIALS,
BIBLIOGRAPHIES, ABSTRACTS (U)

ABSTRACTS OF PAPERS ON RADIATION EFFECTS INDEXED BY THE
RADIATION EFFECTS INFORMATION CENTER DURING MARCH
1963, PART 1.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-406 070

BATTELLE MEMORIAL INST COLUMBUS OHIO RADIATION EFFECTS
INFORMATION CENTER

MONTHLY ACCESSION LIST. ABSTRACTS. PART 1. (U)

DESCRIPTIVE NOTE; REPT. FOR 1-30 APR 63.

MAY 63 56P

REPT. NO. AL63

CONTRACT: AF33 657 10085

PROJ: PROJS. 7381 ,7634

UNCLASSIFIED REPORT

DESCRIPTORS: (*BIBLIOGRAPHIES), (*MATERIALS),

(*CERAMIC MATERIALS), ORGANIC MATERIALS,

PROPELLANTS, SPACE ENVIRONMENTAL CONDITIONS,

METALS, ELECTRONIC EQUIPMENT, TEXTILES,

RADIATION DAMAGE (U)

ABSTRACT BIBLIOGRAPHY OF RADIATION DAMAGE ON MATERIALS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-411 944

BATTELLE MEMORIAL INST COLUMBUS OHIO RADIATION EFFECTS
INFORMATION CENTER

MONTHLY ACCESSION LIST 65. ABSTRACTS. PART

1.

(U)

DESCRIPTIVE NOTE: REPT. FOR 1-30 JUNE 63.

JUL 63 30P

REPT. NO: ACCESSION LIST 65

CONTRACT: AF33 657 10085

PROJ: 7381 ,7634

TASK: 738103

UNCLASSIFIED REPORT

DESCRIPTORS: (RADIATION EFFECTS, ABSTRACTS),
RADIATION DAMAGE, BIBLIOGRAPHIES, METALS,
SPACE ENVIRONMENTAL CONDITIONS, CERAMIC
MATERIALS, POLYMERS, TEST EQUIPMENT, TEST
METHODS, TEST FACILITIES, ORGANIC MATERIALS,
MATERIALS, ELECTRONIC EQUIPMENT, INDEXES.

(U)

IDENTIFIERS: 1963.

(U)

MONTHLY ACCESSIONS LIST INCLUDING ABSTRACTS OF THE
RADIATION EFFECTS INFORMATION CENTER: JULY 15,
1963.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-417 681

BATTELLE MEMORIAL INST COLUMBUS OHIO RADIATION EFFECTS
INFORMATION CENTER

MONTHLY ACCESSION LIST. ABSTRACTS. PART 1.

(U)

DESCRIPTIVE NOTE; REPT. FOR 1-30 SEP 63.

OCT 63 48P

REPT. NO. REIC ASCENSIONS LIST NO. 68

CONTRACT: AF33 657 10085

PROJ: PROJS 7381 ,7634

TASK: 738103

UNCLASSIFIED REPORT

DESCRIPTORS: (BIBLIOGRAPHIES, RADIATION
DAMAGE), (RADIATION DAMAGE, BIBLIOGRAPHIES),
METALS; ALLOYS, CERAMIC MATERIALS, POLYMERS,
INORGANIC COMPOUNDS, ORGANIC MATERIALS,
ELECTRONIC EQUIPMENT, ELECTRONICS, SPACE EN
VIRONMENTAL CONDITIONS, ABSTRACTS, ELASTOMERS,
PLASTICS.

(U)

IDENTIFIERS: 1963.

(U)

ABSTRACTS OF ACCESSIONS DURING SEPTEMBER 1963 BY THE
RADIATION EFFECTS INFORMATION CENTER.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-420 596

NAVAL CIVIL ENGINEERING LAB PORT HUENEME CALIF
NAVAL ISOTOPE APPLICATIONS: A SELECTED
BIBLIOGRAPHY,

(U)

AUG 63 73P SEABOLD, R. H. IJACOVITCH, J.

REPT. NO. NCEL-TN-533

UNCLASSIFIED REPORT

DESCRIPTORS: (*RADIOACTIVE ISOTOPES, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, RADIOACTIVE ISOTOPES), (*NAVAL
RESEARCH, RADIOACTIVE ISOTOPES), CIVIL ENGINEERING,
CONSTRUCTION, ENGINEERING (U)
IDENTIFIERS: 1963 (U)

THE OBJECTIVES OF THIS TASK ARE TO ADAPT AND
DEVELOP RADIOISOTOPE APPLICATIONS FOR USE IN THE
NAVAL SHORE ESTABLISHMENT. IN COMPILING THIS
BIBLIOGRAPHY, APPLICATIONS WERE SOUGHT WHICH MIGHT
REDUCE COSTS, IMPROVE EFFICIENCY AND QUALITY CONTROL,
AND OPEN NEW FIELDS FOR THE NAVAL SHORE
ESTABLISHMENT WITH ITS LARGE INDUSTRIAL COMPLEXES
AND FLEET SUPPORT FACILITIES. THIS LITERATURE
SEARCH WAS CONDUCTED TO DETERMINE CURRENT
RADIOISOTOPE APPLICATIONS IN INDUSTRY AND TO
DETERMINE WHICH ARE MOST APPLICABLE FOR NAVY USE.
ONLY APPLICATIONS FOR THE AREAS OF RESPONSIBILITY
OF THE BUREAU OF YARDS AND DOCKS ARE INCLUDED.
EMPHASIS IS PLACED ON POSSIBLE RADIOISOTOPE USES
FOR NAVAL CIVIL ENGINEERING IN CONSTRUCTION, FACILITY
AND EQUIPMENT MAINTENANCE, HARBOR ENGINEERING,
ENGINEERING SURVEYS, AND ENGINEERING RESEARCH. THE
APPLICATIONS OF RADIOISOTOPES AS HEAT SOURCES ARE NOT
INCLUDED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-426 797

BATTELLE MEMORIAL INST COLUMBUS OHIO RADIATION EFFECTS
INFORMATION CENTER

MONTHLY ACCESSION LIST. ABSTRACT NO. 21254 TO
21301, PART 1.

(U)

DESCRIPTIVE NOTE: REPT. FOR 1-31 DEC 63.

JAN 64 19P

REPT. NO. AL70

CONTRACT: AF33 615 1124

UNCLASSIFIED REPORT

DESCRIPTORS: (•ABSTRACTS, RADIATION DAMAGE),
(•RADIATION DAMAGE, ABSTRACTS), MATERIALS,
METALS, CERAMIC MATERIALS, ORGANIC MATERIALS,
BIBLIOGRAPHIES, POLYMERS, ELECTRONIC EQUIPMENT,
SPACE ENVIRONMENTAL CONDITIONS.

(U)

IDENTIFIERS: 1964.

(U)

MONTHLY ACCESSION LIST OF THE RADIATION EFFECTS
INFORMATION CENTER.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-429 407

BATTELLE MEMORIAL INST COLUMBUS OHIO RADIATION EFFECTS
INFORMATION CENTER

MONTHLY ACCESSION LIST 71, ABSTRACT NO. 21404 TO
21455, PART I. (U)

DESCRIPTIVE NOTE, REPT. FOR 1-3; JAN 64.

FEB 64 20P

REPT. NO. 71

CONTRACT: AF33 615 1124

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*RADIATION EFFECTS, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, RADIATION EFFECTS),
(*BIBLIOGRAPHIES, MATERIALS), ELECTRONICS, CERAMIC
MATERIALS, METALLIC TEXTILES, POLYMER, INORGANIC
COMPOUNDS, ORGANIC MATERIALS, SPACE ENVIRONMENTAL
CONDITIONS, TEST EQUIPMENT, TEST METHODS (U)

BIBLIOGRAPHY OF RADIATION EFFECTS INFORMATION CENTER.
MONTHLY ACCESSION LIST 71, ABSTRACT NO. 21404-TO-21455.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-432 663

BATTELLE MEMORIAL INST COLUMBUS OHIO RADIATION EFFECTS
INFORMATION CENTER

MONTHLY ACCESSION LIST COORDINATE INDEX PART II.

DESCRIPTIVE NOTE; REPT. FOR 1 OCT 63-29 FEB 64.

MAR 64 12P

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*INDEXES, REPORTS), (*SUBJECT INDEXING,
REPORTS), (*RADIATION EFFECTS, BIBLIOGRAPHIES),
DOSIMETERS, ELECTROMAGNETIC WAVES, ENVIRONMENTAL
TESTS, MATERIALS, MECHANICAL PROPERTIES, SOURCES,
SPACE FLIGHT

(U)

IDENTIFIERS: PARTICULATE RADIATION

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-443 451

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
THE FUNDAMENTAL EFFECTS OF RADIATION AND 'HOT ATOMS'
ON SIMPLE COMPOUNDS; AN ANNOTATED BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE; REPT. FOR 1947-JAN 63.,
APR 63 328P PIERCE, CHARLIE M. ;
GLASS, RICHARD A. ;
REPT. NO. 8 19 63 9 , SB63 37
CONTRACT: AF04 647 787

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*RADIATION DAMAGE, BIBLIOGRAPHIES),
(*CHEMICAL COMPOUNDS, DEGRADATION), (*BIBLIOGRAPHIES,
RADIATION EFFECTS), SOLUTIONS, HALOGEN COMPOUNDS,
ABSTRACTS (U)
IDENTIFIERS: HOT ATOMS (U)

REFERENCES WHICH ARE RELATED TO THE EFFECTS OF 'HOT
ATOMS' AND RADIATION ON SIMPLE COMPOUNDS AND AQUEOUS
SOLUTIONS ARE LISTED. PARTICULAR ATTENTION WAS
GIVEN TO THE SELECTION OF REFERENCES WHICH INVOLVE
THE HALOGEN COMPOUNDS. THE REFERENCES ARE ARRANGED
ACCORDING TO THE FIRST AUTHOR. INDEXES OF
CORPORATE AUTHOR, PERSONAL AUTHOR AND
SUBJECT ARE INCLUDED. THE PERIOD OF COVERAGE
DATES FROM 1947 TO JANUARY 1963. SEARCH
COMPLETED FEBRUARY 1963. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-459 964

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

RADIATION DAMAGE IN SOLIDS. COMPILATION OF
ABSTRACTS.

(U)

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

MAY 64 90P

REPT. NO. AID-U-64-43

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SEMICONDUCTORS, RADIATION DAMAGE),
(*SOLID STATE PHYSICS, BIBLIOGRAPHIES), USSR, THEORY,
GERMANIUM, SILICON, CADMIUM COMPOUNDS, INDIUM
COMPOUNDS, CRYSTALS, HALIDES, TITANATES, ABSTRACTING,
POLYMERS, GLASS, MAGNESIUM, ZINC, SELENIDES, SULFIDES,
ANTIMONY ALLOYS, DIELECTRIC PROPERTIES (U)

THIS IS A COMPILATION OF SCIENTIFIC PAPERS ON THE
SUBJECT OF RADIATION DAMAGE IN SOLIDS PUBLISHED IN
THE PERIODICAL FIZIKA TYERDOGO TELA (SOLID
STATE PHYSICS), DURING THE PERIOD FROM
JANUARY 1961 TO NOVEMBER 1963. THE REPORT IS
DIVIDED INTO FOUR SECTIONS: SEMICONDUCTORS, SILICON,
GERMANIUM, CADMIUM SULFIDE, AND CADMIUM SELENIDE AND
INDIUM ANTIMONIDE, IONIC CRYSTALS (EXCLUDING
SEMICONDUCTORS) ALKALI HALIDES, AND MAGNESIUM AND
ZINC TITANATES; OTHER MATERIALS (COVALENT
SUBSTANCES INCLUDING POLYMERS, GLASSES, ROCHELLE
SALT,...); AND PURELY THEORETICAL SUBJECTS.
WITHIN EACH SECTION OR SUBSECTION THE PAPERS ARE
ARRANGED CHRONOLOGICALLY STARTING WITH THE EARLIEST
PUBLISHED ARTICLES. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-460 705

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

THE BIOLOGICAL EFFECTS OF ELECTROMAGNETIC
FIELDS.

(U)

DESCRIPTIVE NOTE; ANNOTATED BIBLIOGRAPHY 1933-1964 ON
SURVEYS OF SOVIET-BLOC SCIENTIFIC AND TECHNICAL
LITERATURE.

APR 65 44P

REPT. NO. ATD-P-65-17

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*RADIATION EFFECTS, ELECTROMAGNETIC
FIELDS), (*ELECTROMAGNETIC FIELDS, RADIATION EFFECTS),
USSR, CENTRAL NERVOUS SYSTEM, MICROWAVE RADIATION,
BIBLIOGRAPHIES, SENSITIVITY, SCIENTIFIC RESEARCH,
RADIOTHERAPY, ULTRAHIGH FREQUENCY, LABORATORY ANIMALS,
HUMANS, REVIEWS (U)

THIS ANNOTATED BIBLIOGRAPHY REFERS TO MATERIALS
REFLECTING SOVIET-BLOC RESEARCH ON THE BIOLOGICAL
EFFECTS OF MICROWAVES AND CONSTANT MAGNETIC FIELDS
PUBLISHED FROM 1933 TO 1964. OF THE 132 ARTICLES,
41 DEAL WITH THE EFFECTS OF MICROWAVES ON THE CENTRAL
NERVOUS SYSTEM, 54 DEAL WITH EFFECTS ON THE
PERIPHERAL NERVOUS SYSTEM, AND 36 DEAL WITH THEORY,
THERMAL EFFECTS, EFFECTS ON INVERTEBRATES AND PLANTS,
INDUSTRIAL HYGIENE, AND OTHER MISCELLANEOUS ASPECTS
NOT DIRECTLY ASSOCIATED WITH THE NERVOUS RESPONSE OF
ORGANISMS. IN MANY CASES ARTICLES WERE TAKEN FROM
LARGE REVIEW PUBLICATIONS AND, THEREFORE, MUST BE
REGARDED AS SECONDARY SOURCES. PRIMARY SOURCE
NUMBERS FOLLOW THE ANNOTATIONS OF THESE ARTICLES.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-600 707

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
NEUTRON FLUX MEASUREMENTS: AN ANNOTATED
BIBLIOGRAPHY,

(U)

SEP 63 61P PIERCE, CHARLIE M. I
REPT. NO. SR063 7

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•NEUTRON FLUX, MEASUREMENT),
(•BIBLIOGRAPHIES, NEUTRON FLUX), RADIATION MEASUREMENT
SYSTEMS, ABSTRACTS (U)

THE REFERENCES CITED DEAL WITH ALL ASPECTS OF
NEUTRON FLUX MEASUREMENTS. MOST OF THE REFERENCES
WERE PUBLISHED BETWEEN JUNE 1959 AND JUNE 1963.
THE REFERENCES ARE ALPHABETICALLY ARRANGED
ACCORDING TO THE FIRST AUTHOR. CORPORATE AND
PERSONAL AUTHOR INDEXES ARE INCLUDED. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-601 287

PREVENTION OF DETERIORATION CENTER HAS-NRC WASHINGTON D
C

BIBLIOGRAPHY ON RADIOACTIVE ISOTOPES AS TOOLS FOR
DETERMINING SMALL CHANGES IN COMPOSITION AND
STRUCTURE OF MATERIALS.

(U)

DEC 61 7P

REPT. NO. 561 038 ,PDL 42574

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•RADIOACTIVE ISOTOPES, TRACER STUDIES),
(•TRACER STUDIES, BIBLIOGRAPHIES), (•BIBLIOGRAPHIES,
TRACER STUDIES), MATERIALS, DEGRADATION, TEST METHODS,
RADIOGRAPHY

(U)

A BIBLIOGRAPHY OF 32 ITEMS LISTED BY PDC
ACCESSION NUMBER.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-603 689

BATTELLE MEMORIAL INST COLUMBUS OHIO RADIATION EFFECTS
INFORMATION CENTER

MONTHLY ACCESSION LIST. ABSTRACT NO. 24527 TO 24600.

PART I.

(U)

DESCRIPTIVE NOTE; REPT. FOR 1-31 JUL 64.

AUG 64 30P

REPT. NO. MAL-77

CONTRACT: AF33 615 1124

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (RADIATION DAMAGE, MATERIALS),
(BIBLIOGRAPHIES, RADIATION DAMAGE), ABSTRACTS,
METALS, CERAMIC MATERIALS, SINGLE CRYSTALS, ORGANIC
MATERIALS, POLYMERS, INORGANIC COMPOUNDS, ELECTRONIC
EQUIPMENT, CIRCUITS, TRANSDUCERS, SEMICONDUCTORS,
SPACE ENVIRONMENTAL CONDITIONS, NUCLEAR REACTORS,
RADIATION CHEMISTRY, RADIATION MEASUREMENT SYSTEMS,
STEEL, COPPER ALLOYS, NICKEL ALLOYS, REACTOR
MATERIALS, TEXTILES, GUIDED MISSILE COMPONENTS, SOLAR
CELLS, PROGRAMMING (COMPUTERS), SHIELDING, SCIENTIFIC
SATELLITES, SEMICONDUCTORS, GLASS (U)
IDENTIFIERS: ELECTRON SPIN RESONANCE (U)

A BIBLIOGRAPHY OF 74 ABSTRACTS IS PRESENTED
CONCERNING THE EFFECTS OF RADIATION ON METALLIC,
CERAMIC, POLYMERIC, ORGANIC, 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. 000362

AD-607 982

JOHNS HOPKINS UNIV SILVER SPRING MD APPLIED PHYSICS

LAB

GEOPHYSICAL EFFECTS OF HIGH-ALTITUDE NUCLEAR

EXPLOSIONS OF 1962; AN ANNOTATED BIBLIOGRAPHY, (U)

OCT 64 40P BLAU, EDMUND J. I

REPT. NO. TG-230-85

CONTRACT: NOW62 0604C

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•BIBLIOGRAPHIES, NUCLEAR EXPLOSIONS),
(•NUCLEAR EXPLOSIONS, BIBLIOGRAPHIES), (•GEOPHYSICS,
NUCLEAR EXPLOSIONS), EXPLOSION EFFECTS, HIGH
ALTITUDE (U)

THE PRESENT COMPILATION IS CONCERNED ONLY WITH
GEOPHYSICAL EFFECTS PRODUCED BY THE HIGH-ALTITUDE
TESTS MADE IN 1962, BOTH AMERICAN AND SOVIET .
THIS SERIES IS OF PARTICULAR INTEREST BECAUSE OF
THE CREATION AS A RESULT OF THE 'STARFISH TEST OF 9
JULY OF AN ARTIFICIAL RADIATION BELT SIMILAR TO THE
NATURAL VAN ALLEN BELTS. THE EXTENT AND
DURATION OF THIS BELT AND THE MAGNITUDE OF OTHER
EFFECTS OF THE EXPLOSION GREATLY EXCEEDED THE RESULTS
PRODUCED BY EARLIER HIGH-ALTITUDE NUCLEAR TESTS AND
PROVIDED A STIMULUS FOR INTENSIVE INVESTIGATION ALL
OVER THE WORLD. IN THIS BIBLIOGRAPHY, ARTICLES OF
A PURELY THEORETICAL NATURE HAVE BEEN OMITTED, AS
HAVE THOSE CONCERNED ONLY WITH RADIOACTIVE FALLOUT.
THE TOTAL OF ABOUT 170 REFERENCES INDICATES THE
GREAT INTEREST IN THE SUBJECT. THE LARGEST NUMBER
OF ARTICLES ARE CONCERNED WITH THE STARFISH
EXPLOSION, SINCE THIS WAS THE EARLIEST OF THE SERIES
AND PRODUCED THE MOST SPECTACULAR RESULTS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-614 785

BATTELLE MEMORIAL INST COLUMBUS OHIO RADIATION EFFECTS
INFORMATION CENTER

MONTHLY ACCESSION LIST, ABSTRACT NO. 27166 TO 27222.

PART I.

(U)

DESCRIPTIVE NOTE: REPT. FOR 1-30 APR 65.

MAY 65 25P

REPT. NO. ACCESSION LIST NO. 86

CONTRACT: AF33 615 1124

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: CONTINUATION OF CONTRACT AF33 657
10085.

DESCRIPTORS: (*RADIATION DAMAGE, MATERIALS),
(*MATERIALS, RADIATION DAMAGE), (*BIBLIOGRAPHIES,
RADIATION DAMAGE), RADIATION CHEMISTRY, ABSTRACTING,
CERAMIC MATERIALS, METALS, ORGANIC MATERIALS,
POLYMERS, ELECTRONIC EQUIPMENT, SPACE ENVIRONMENTAL
CONDITIONS, SEMICONDUCTOR DEVICES, ELECTROMAGNETIC
WAVES

(U)

CONTENTS: DATES COVERED: APRIL 1, 1965 TO
APRIL 30, 1965 METALLIC MATERIALS; CERAMIC
MATERIALS; ORGANIC MATERIALS; POLYMERIC
MATERIALS; INORGANIC MATERIALS; ELECTRONIC
MATERIALS, COMPONENTS, AND DEVICES;
FACILITIES; SPACE ENVIRONMENT AND EFFECTS ON
MATERIALS; EXPERIMENTAL DEVICES AND
TECHNIQUES; MISCELLANEOUS.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-618 339

BATTELLE MEMORIAL INST COLUMBUS OHIO RADIATION EFFECTS
INFORMATION CENTER

A SELECTED BIBLIOGRAPHY OF PULSED RADIATION
EFFECTS, (U)

JUN 63 32P VEAZIE, W. F. COLLIER, S. F. I

REPT. NO. REIC-M-24

CONTRACT: AF33 657 10085

PROJ: 7381 ,7634

TASK: 738103

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•RADIATION DAMAGE, BIBLIOGRAPHIES),
(•BIBLIOGRAPHIES, RADIATION DAMAGE), MATERIALS,
ELECTRONIC EQUIPMENT, SEMICONDUCTOR DEVICES (U)

THE BIBLIOGRAPHY IS DIVIDED INTO THREE PARTS:
REPORTS GENERATED BY INDUSTRIAL ORGANIZATIONS,
REPORTS GENERATED BY GOVERNMENT LABORATORIES, AND
MISCELLANEOUS REFERENCES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-623 557

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

NUCLEAR SAFETY,

(U)

OCT 65 65P VALIUNAS, ANDREW I

POPLAWSKI, BARTHOLOMEW I

REPT. NO. ATD-B-65-76

MONITOR: TT ,

65-64490

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ANNOTATED BIBLIOGRAPHY BASED ON
SOVIET OPEN LITERATURE. REPORT ON SURVEYS OF SOVIET
SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (HEALTH PHYSICS INSTRUMENTATION,
BIBLIOGRAPHIES), RADIATION MEASUREMENT SYSTEMS,
SHIELDING, REMOTE CONTROL SYSTEMS, SAFETY,
NEUTRON DEFECTORS, ALPHA PARTICLE DETECTORS,
GAMMA COUNTERS, DOSIMETERS, USSR

(U)

AN ANNOTATED BIBLIOGRAPHY IN PRESENTED OF RUSSIAN
PAPERS ON THE FOLLOWING TOPICS: NEUTRON DETECTORS;
ALPHA, BETA, AND GAMMA DETECTORS; DOSIMETERS;
RADIATION SHIELDING STUDIES; REMOTE HANDLING AND
RADIATION PROTECTIVE DEVICES AND STUDIES.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-626 600

18/3

14/2

7/3

7/4

20/2

20/12

LIBRARY OF CONGRESS WASHINGTON D C SCIENCE AND TECHNOLOGY
DIV

AIR FORCE SCIENTIFIC RESEARCH BIBLIOGRAPHY, VOLUME
III, 1959, (U)

65 705P

HOOKE, G. VERNON I

YATES, DORIS C. BROOKINS, HARVEY D. I

DANN, AARON S. I

MONITOR: AFOSR ,

700-3

UNCLASSIFIED REPORT

AVAILABILITY: HARD COPY AVAILABLE FROM

SUPERINTENDENT OF DOCUMENTS, GPO, WASHINGTON, D. C.

20402, 54.75, D-301.45/19-21700/V.3.

SUPPLEMENTARY NOTE:

DESCRIPTORS: (AIR FORCE RESEARCH,
BIBLIOGRAPHIES), ABSTRACTS, MATHEMATICS,
PHYSICS, CHEMISTRY, PHYSICAL CHEMISTRY, SOLID
STATE PHYSICS, ELECTRONICS, AERONAUTICS,
ASTRONAUTICS, PROPELLANTS, FUELS, MATERIALS,
CRYSTALLOGRAPHY, MEDICINE, METALLURGY,
PSYCHOLOGY (U)

AIR FORCE SCIENTIFIC RESEARCH BIBLIOGRAPHY, VOLUME
III, 1959.

ORDNANCE

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-406 203

SPRINGFIELD ARMORY MASS
BIBLIOGRAPHY OF SPRINGFIELD ARMORY TECHNICAL
REPORTS AND NOTES ON MATERIEL - 1 JANUARY 1961 31
DECEMBER 1962. (U)

JAN 63 13P
MONITOR: SA YR20 9102

UNCLASSIFIED REPORT

DESCRIPTORS: (*ORDNANCE), (*BIBLIOGRAPHIES),
(*ABSTRACTS), SMALL ARMY, AUTOMATIC WEAPONS,
GUN MOUNTS, SPOTTING RIFLES, ALUMINUM COATINGS,
STEEL, CHROMIUM, P, POWDER METALS, CARBIDES,
MACHINING, ULTRASONIC RADIATION, SINTERING,
NON-DESTRUCTIVE TESTING, CARTRIDGES, ANALOG
COMPUTERS, ARMAMENT, HELICOPTERS, ERRORS,
GUNS (U)

THIS BIBLIOGRAPHY IS A COMPILATION OF TECHNICAL
REPORTS AND NOTES ON MATERIEL PREPARED AND PUB
LISHED BY SPRINGFIELD ARMORY RESEARCH AND EN
GINEERING DIVISION. THIS BIBLIOGRAPHY COVERS
THE PERIOD FROM 1 JANUARY 1961 TO 31 DECEMBER
1962. ABSTRACTS OF TECHNICAL REPORTS ARE IN
CLUDED IN THIS BIBLIOGRAPHY. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-406 244

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

EXPLODING WIRES, FILMS, AND RIBBONS. ANNOTATED
BIBLIOGRAPHY.

(U)

MONITOR: AID ^{AP} 863 78

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTES:

DESCRIPTORS: *EXPLODING WIRES, *BIBLIOGRAPHIES,
FILMS, ABSTRACTS, SCIENTIFIC PERSONNEL, PHOTOGRAPHIC
EQUIPMENT, SPECTRA (VISIBLE AND ULTRAVIOLET), KERR
CELLS, FERRITE, SPARKS, CIRCUITS, HYDRODYNAMICS,
THEORY, ELECTRON OPTICS, ELECTRICAL IMPEDANCE,
THICKNESS, TEMPERATURE, LIGHT PULSES, GASES,
OSCILLOGRAPHY, ELECTRONS, PLASMA PHYSICS

(U)

IDENTIFIERS: USSR

(U)

THIS BIBLIOGRAPHY IS INTENDED AS A GUIDE TO
SOVIET LITERATURE ON ELECTRICALLY EXPLODED
CONDUCTORS. IT WAS COMPILED FROM SIX SOVIET
JOURNALS, SPANNING THE PERIOD MARCH 1957 TO
JANUARY 1963. THE ELEVEN ENTRIES ARE ARRANGED
ALPHA BETICALLY BY AUTHOR. AN ANNOTATION IS
PROVIDED FOR EACH ARTICLE. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 020362

AD-427 226

NAVAL ORDNANCE TEST STATION CHINA LAKE CALIF
1962, SELECTED OFFICIAL PUBLICATIONS, PROFESSIONAL
PAPERS AND PATENTS.

(U)

SEP 63 75F
MONITOR: NOTS TP3120

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ORDNANCE, REPORTS), (ABSTRACTS,
ORDNANCE), PATENTS, PERIODICALS, BIBLIOGRAPHIES
IDENTIFIERS: PUBLICATIONS, 1963

(U)

(U)

THIS BOOKLET LISTS OFFICIAL PUBLICATIONS RELEASED
TO THE OFFICE OF TECHNICAL SERVICES FOR
DISSEMINATION UNDER PUBLIC LAW 776, PROFESSIONAL
PAPERS PUBLISHED IN THE OPEN LITERATURE, AND U.S.
PATENTS. THE OFFICIAL PUBLICATIONS ARE LISTED BY
SERIES NUMBER (NAVORD REPORT, NAVNEPS REPORT,
NOTS TP); THE PROFESSIONAL PAPERS, ALPHABETICALLY
BY FIRST AUTHOR; AND THE PATENTS, BY U. S. PATENT
NUMBER. AN AUTHOR INDEX APPEARS AT THE BACK.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY - SEARCH CONTROL NO. 000362

AD-460 101

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

THE THEORY OF DETONATION, THE COMBUSTION MECHANISM,
AND THE PROPERTIES OF EXPLOSIVES. (U)

DESCRIPTIVE NOTE; ANNOTATED BIBLIOGRAPHY ON SURVEYS OF
SOVIET-BLOC SCIENTIFIC AND TECHNICAL LITERATURE.

AUG 64 67P

REPT. NO. ATD-U-64-BE

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (EXPLOSIVE MATERIALS, BIBLIOGRAPHIES),
(SCIENTIFIC RESEARCH, USSR), THEORY DETONATIONS,
COMBUSTION, STABILITY, DECOMPOSITION, PYROLYSIS,
BURNING RATE, SHOCK WAVES, ABSTRACTING (U)

THIS REPORT IS BASED ON THE OPEN SOVIET
LITERATURE PUBLISHED IN 1963 AND AVAILABLE AT THE
AEROSPACE TECHNOLOGY DIVISION AND THE LIBRARY
OF CONGRESS. IT CONSISTS OF AN ANNOTATED
BIBLIOGRAPHY DEALING PREDOMINANTLY WITH THE THEORY OF
DETONATION, THE COMBUSTION MECHANISM, AND THE
PROPERTIES OF EXPLOSIVES. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-601 024

SPRINGFIELD ARMORY MASS

BIBLIOGRAPHY OF SPRINGFIELD ARMORY TECHNICAL REPORTS
AND NOTES ON MATERIEL (1 JAN-31 DEC 63). (U)

FEB 64 12P

MONITOR: SA TR20 9103

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*GUNS, BIBLIOGRAPHIES),

(*BIBLIOGRAPHIES, GUNS), GUN COMPONENTS, ABSTRACTS,
REPORTS (U)

THE BIBLIOGRAPHY IS A COMPILATION OF TECHNICAL
REPORTS AND NOTES ON MATERIEL PREPARED AND
PUBLISHED BY SPRINGFIELD ARMORY RESEARCH AND
ENGINEERING DIVISION. THE BIBLIOGRAPHY COVERS
THE PERIOD FROM 1 JANUARY 1963 TO 31 DECEMBER
1963. ABSTRACTS OF TECHNICAL REPORTS ARE
INCLUDED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-618 131

AIR FORCE CAMBRIDGE RESEARCH LABS L & HANSCOM FIELD
MASS

A BIBLIOGRAPHY OF THE ELECTRICALLY EXPLODED CONDUCTOR
PHENOMENON. SUPPLEMENT NO. 1. (U)

DESCRIPTIVE NOTE: SPECIAL REPT.,

JUN 65 43P CHACE, WILLIAM G. I

WATSON, ELEANOR M. I

REPT. NO. SR-25 ,APCRL-65-384

PROJ: 8608

TASK: 860804

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*EXPLODING WIRES, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, EXPLODING WIRES), FOILS,
EXPLOSIVE MATERIALS, LIGHT, MATHEMATICS,
MEASUREMENT, PHOTOGRAPHY, SHOCK WAVES, SPARKS,
SPECTROSCOPY, ELECTRIC SWITCHES, TEMPERATURE,
THEORY, X RAYS, FILMS, PLASMA PHYSICS (U)

BIBLIOGRAPHY OF THE ELECTRICALLY EXPLODED CONDUCTOR
PHENOMENON. SUPPLEMENT NO. 1.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-622 195

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

SOVIET AEROBALLISTIC RANGES AND HYPERVELOCITY
RESEARCH: COMPREHENSIVE REPORT, (U)

SEP 65 71P BOYLAN, LEE I

REPT. NO. ATD-P-65-79

MONITOR: TT 65-64117

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPT. ON SURVEYS OF COMMUNIST
WORLD SCIENTIFIC AND TECHNICAL LITERATURE.
AVAILABLE COPY WILL NOT PERMIT FULLY LEGIBLE REPRODUCTION.
REPRODUCTION WILL BE MADE IF REQUESTED BY USERS OF DDC.
COPY IS AVAILABLE FOR PUBLIC SALE.

DESCRIPTORS: (*RANGES(ESTABLISHMENTS), EXTERIOR
BALLISTICS), (*EXTERIOR BALLISTICS,
RANGES(ESTABLISHMENTS)), (*HYPERVELOCITY GUNS,
USSR), IMPACT PREDICTION, HYPERVELOCITY
PROJECTILES, SHOCK TUBES, INSTRUMENTATION,
BIBLIOGRAPHIES, POLAND (U)

PART I DEALS PREDOMINANTLY WITH TWO BALLISTIC
RANGES MENTIONED IN OPEN SOVIET LITERATURE AS BEING
PRESENTLY IN USE IN THE SOVIET UNION. OTHER
MATERIAL DISCUSSED IN PART I DEALS WITH SEVERAL
RECENT ARTICLES DESCRIBING METHODS OF OBTAINING
EXTREMELY HIGH VELOCITIES (100 AND 90 KM/SEC).
THIS MATERIAL COVERS RECENT SOVIET AND POLISH
DEVELOPMENTS IN HYPERVELOCITY TECHNOLOGY. PART
II DISCUSSES SOVIET IMPACT TECHNIQUE, TRENDS, AND
EQUIPMENT, AND CONTAINS SOME MATERIAL ON IMPACT
STUDIES. OF PARTICULAR INTEREST IS A RECENT
ARTICLE DISCUSSING A 15-KM/SEC IMPACT ACHIEVED BY
USING WHAT IS DESCRIBED AS A 'MULTISTAGE' EXPLOSIVE
CHARGE. AT THE END OF PART II, A SELECTED
BIBLIOGRAPHY HAS BEEN INCLUDED WHICH CITES THE
ENGLISH TRANSLATIONS OF MANY OF THE FOREMOST
SOVIET WORKS DEALING WITH IMPACT. PARTS III
AND IV BRIEFLY DISCUSS SOVIET SHOCK TUBES AND
INSTRUMENTATION, LISTING SOME OF THE COMPONENTS MOST
FREQUENTLY FOUND IN SOVIET HYPERVELOCITY STUDIES.
THE MATERIAL COVERED IN THIS REPORT IS THE RESULT
OF AN EXHAUSTIVE AND COMPREHENSIVE SEARCH OF MORE
THAN 15 MAJOR SOVIET SCIENTIFIC PERIODICALS AND
OTHER PERTINENT SERIALS, MONOGRAPHS, ETC., PUBLISHED
OVER THE LAST SEVEN YEARS, AND INVOLVED THE REVIEW OF
OVER 3000 ARTICLES. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-623 242

AEROSPACE INFORMATION DIV LIBRARY OF CONGRESS WASHINGTON D
C

ACTIVITIES INVOLVING BLASTING OPERATIONS: REVIEW
ARTICLE AND ANNOTATED BIBLIOGRAPHY (USSR). (U)

DESCRIPTIVE NOTE: REPT. NO. 3 ON AID WORK ASSIGNMENT NO.
50-E.

MAR 64 24P

REPT. NO. AID-U-64-21

MONITOR: TT : 65-64453

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REFERENCES ARE TAKEN FROM SOVIET AND
SOVIET-BLOC OPEN-SOURCE MATERIALS PUB. 1963.

DESCRIPTORS: (*BLAST, REVIEWS), (*EXPLOSIVE
MATERIALS, BIBLIOGRAPHIES), ENGINEERING, MINING
ENGINEERING, CRATERING, DAMS, USSR (U)

THE REPORT IS ISSUED IN TWO PARTS. PART I
COMPRISES SUMMARY REVIEWS, WITH ILLUSTRATIONS, OF
THREE SELECTED SOVIET PAPERS WHICH AFFORD
CONSIDERABLE INSIGHT INTO THE CURRENT SOVIET STATE
OF THE ART IN THE ENGINEERING USES OF EXPLOSIVES.
PART II COMPRISES ABSTRACTS OF 13 PAPERS ON
VARIOUS APPLICATIONS OF EXPLOSIVES. CRATERING
TECHNIQUES, MINING, DRAINAGE, AND TECHNIQUES OF
'CONFINED' CHARGES ARE AMONG THE SUBJECTS COVERED.
ABSTRACTS OF THE PAPERS REVIEWED IN PART I ARE
INCLUDED IN PART II. (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-625 326 19/4 21/2 19/1
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
THE THEORY OF DETONATION, THE COMBUSTION MECHANISM,
AND THE PROPERTIES OF EXPLOSIVES, (U)
DEC 65 37P PARANDJUK, SERAPHIM I
REPT. NO. ATD-65-111
MONITOR: TT , 66-60085

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: COMPILATION OF ABSTRACTS BASED ON
SOVIET OPEN LITERATURE.

DESCRIPTORS: (*DETONATIONS, ABSTRACTS),
(*COMBUSTION, ABSTRACTS), (*EXPLOSIVE MATERIALS,
ABSTRACTS), BIBLIOGRAPHIES, USSR (U)

THEORY OF DETONATION, THE COMBUSTION MECHANISM, AND THE
PROPERTIES OF EXPLOSIVES: COMPILATION OF ABSTRACTS.

PHYSICS

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-403 137

AUTONETICS DOWNEY CALIF

A SURVEY OF LITERATURE ON TECHNIQUES AND INSTRUMENTATION FOR MEASURING ELECTRICAL PULSE INTERVALS, (U)

FEB 63 1V BRYCE, BARBARA ANN I

ALEVIZON, SARAH ANN I

REPT. NO. EM1163 106

UNCLASSIFIED REPORT

DESCRIPTORS: •ELECTROMAGNETIC PULSES, •BIBLIOGRAPHIES, ABSTRACTS, MEASUREMENT. (U)

THIS BIBLIOGRAPHY IS ON RISE TIME AND WIDTH RANGE OF VERY SHORT ELECTRICAL PULSES. EMPHASIS HAS BEEN PLACED ON HOW TO MEASURE TIME AND PEAK AMPLITUDE BY ACCURATE NANOSECOND MEASUREMENTS. SPECIAL EQUIPMENT AND TECHNIQUES ARE CITED. THE SCOPE COVERS APPROXIMATELY A 12-YEAR PERIOD WITH MOST OF THE LITERATURE ENCOMPASSING THE LAST FOUR YEARS. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-403 469

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF

THERMAL SHOCK: AN ANNOTATED BIBLIOGRAPHY,

(U)

SEP 62 20P BUGINAS, COMP. BY SCOTT J. I

REPT. NO. 6 19 62 41

UNCLASSIFIED REPORT

DESCRIPTORS: •BIBLIOGRAPHIES, •THERMAL
STRESSES, FATIGUE (MECHANICS), STABILITY,
THEORY, REFRACTORY MATERIALS, CERAMATERIALS,
SHOCK (MECHANICS), HIGH TEMPERATURE
RESEARCH.

(U)

IDENTIFIERS: THERMAL SHOCK.

(U)

THE SEARCH MADE BEGAN WITH THE LITERATURE OF 1956.
GLENNY IN 1961 AND MAJORS IN 1957 HAVE WRITTEN
EXTENSIVE REVIEW ARTICLES CONCERNING THERMAL FATIGUE.
SOME OF THE REFERENCES OF THESE AUTHORS APPLY
DIRECTLY OR ARE RELATED TO THE SUBJECT OF THIS
BIBLIOGRAPHY. THIS SEARCH WAS ORIENTED TOWARD
AIDING RESEARCHERS IN DEVELOPING A DEFINITION FOR
THERMAL SHOCK (THERE ARE CONFLICTS IN THE
LITERATURE) AND IN STUDYING THERMAL SHOCK VS.
FATIGUE CYCLING. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-404 834

DAVID TAYLOR MODEL BASIN WASHINGTON D C
CRITERIA FOR HUMAN REACTION TO ENVIRONMENTAL
VIBRATION ON NAVAL SHIPS,

(U)

JUN 62 11P BUCHMANN, E. I

PROJ: S FO13 11 01

MONITOR: DTMB 1635

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PRESENTED AT THE ANNUAL MEETING OF THE
INSTITUTE FOR ENVIRONMENTAL SCIENCES HELD IN CHICAGO
ON 10 APRIL 1962 AND IS PUBLISHED IN THE PROCEEDINGS OF
THE INSTITUTE.

DESCRIPTORS: •VIBRATION, •MAN, •NAVAL PERSON
NEL, •BIBLIOGRAPHIES, •MOTION, •MOTION SICK
NESS, NAVAL VESSELS (COMBATANT), DESTROYERS,
AIRCRAFT CARRIERS, OCEAN WAVES, ACCELERATION,
TIME, ROLL, PITCH (MOTION), FREQUENCY,
REACTION (PSYCHOLOGY), TOLERANCES
(PHYSIOLOGY), PHYSIOLOGY.

(U)

A SEARCH OF EXISTING LITERATURE ON HUMAN REACTIONS
TO VIBRATIONS WAS MADE TO OBTAIN A GUIDE FOR
ESTABLISHING NORMS FOR CREWS ON NAVAL SHIPS. SUCH
NORMS ARE RECOMMENDED AS A RESULT OF THIS STUDY.
FURTHER RESEARCH PROGRAMS ARE OUTLINED. THIS
REPORT DEFINES LEVELS OF MOTIONS AND VIBRATIONS TO
WHICH CREW MEMBERS ARE EXPOSED DURING SURFACE SHIP
OPERATIONS. THE LEVELS OF VIBRATION ARE ALSO
COMPARED WITH THOSE FOR STRUCTURAL ITEMS AND
MACHINERY. NO ATTEMPT IS MADE TO EVALUATE ALL WORK
IN THIS FIELD; ONLY THAT CONSIDERED PERTINENT TO
PROBLEMS ARISING FROM SHIPBOARD VIBRATION IS
INCLUDED. (AUTHOR)

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-407 047

NAVAL RESEARCH LAB WASHINGTON D C

A FAR INFRARED BIBLIOGRAPHY,

(U)

APR 63 BIP PALIK, E.D. I

MONITOR: NRL BIBLIOGRAPHY NO. 21

UNCLASSIFIED REPORT

DESCRIPTORS: •INFRARED RADIATION, INSTRUMENTA
TION, OPTICAL PROPERTIES, GASES, LIQUIDS,
SOLIDS, INFRARED SPECTROSCOPY, INFRARED EQUIP
MENT, BIBLIOGRAPHIES.

(U)

A CHRONOLOGICALLY ARRANGED BIBLIOGRAPHY OF 650 REFERENCES
ON FAR INFRARED RADIATION.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-407 521

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
ELECTROLUMINESCENCE: AN ANNOTATED
BIBLIOGRAPHY,

(U)

JUN 63 117P STROMER, COMP. BY PETER R. I
REPT. NO. REPT. NO. 5863 61

UNCLASSIFIED REPORT

DESCRIPTORS: •ELECTROLUMINESCENCE, •BIBLIOG
RAPHY, INJECTION, PHOSPHORUS, ELECTRIC FIELDS,
PHOTONS, EXCITATION, DISPLAY SYSTEMS, COMPUTER
LOGIC, CATHODE RAY TUBE SCREENS, CHEMICAL
COMPOUNDS, PHOTOCONDUCTIVITY, SONAR, OPTICAL
PROPERTIES, PHOSPHORESCENCE, DIRECT CURRENT,
ALTERNATING CURRENT.

(U)

THE RECENT LITERATURE OF CARRIER INJECTION (D.C.)
AND INTRINSIC (A.C.) ELECTROLUMINESCENCE HAS BEEN
REVIEWED. ELECTROLUMINESCENCE IS DEFINED AS THE
EXCITATION OF A PHOSPHOR BY AN ELECTRIC FIELD WHEREBY
THE ELECTRICAL ENERGY IS CONVERTED TO VISIBLE
RADIATION. OTHER FORMS OF ENERGY SUCH AS PHOTONS,
CATHODE RAYS, X-RAYS, ETC. GIVE RISE TO
PHOTOLUMINESCENCE, CATHODOLUMINESCENCE, AND X-RAY
LUMINESCENCE, RESPECTIVELY. REFERENCES TO THESE
OTHER FORMS OF LUMINESCENCE HAVE BEEN INCLUDED ONLY
IN THOSE INSTANCES WHERE THEY HAVE BEEN STUDIED IN
COMBINATION WITH ELECTROLUMINESCENCE. ENTRIES ARE
ARRANGED ALPHABETICALLY BY SENIOR PERSONAL AUTHOR.
BOTH A SOURCE AND SUBJECT INDEX ARE SUPPLIED TO
PROVIDE DIFFERENT APPROACHES TO THE USE OF THIS
MATERIAL. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-410 497

IIT RESEARCH INST CHICAGO ILL
LITERATURE ON DESIGN TECHNIQUES AND ANALYTICAL
METHODS FOR BRITTLE MATERIALS,

(U)

APR 63 258P BARNETT, RALPH L. I

REPT. NO. REPT. NO. 8259

TASK: 2

UNCLASSIFIED REPORT

DESCRIPTORS: (+BRITTLINESS, BIBLIOGRAPHIES),
STRESSES, ANALYSIS, DESIGN, CERAMIC MATERIALS,
REFRACTORY MATERIALS, GLASS TEXTILES, METALS,
ALLOYS, MATERIALS, COMPOSITE MATERIALS,
MECHANICAL PROPERTIES, GLASS, TEXTILES,
CONCRETE, AIR FRAMES, MECHANICS, STATISTICAL
ANALYSIS, STRUCTURES, FRACTURE(MECHANICS),
FATIGUE(MECHANICS), THERMAL STRESSES, CREEP,
JOINTS, THEORY, TEST METHODS,
FAILURE(MECHANICS), LOADING(MECHANICS),
DEFORMATION, STATISTICAL MECHANICS

(U)

IDENTIFIERS: 1963.

(U)

CONTENTS: STATISTICAL STATIC STRENGTH THEORIES
FATIGUE FRACTURE THEORY BRITTLE BEHAVIOR
THERMAL STRESS NOTCH SENSITIVITY AND STRESS
CONCENTRATION CREEP CRACK PROPAGATION MATERIALS
ENVIRONMENT JOINTS

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-411 512

MASSACHUSETTS INST OF TECH CAMBRIDGE ENGINEERING PROJECTS
LAB

AN INDEX TO THE TWO-PHASE GAS-LIQUID FLOW TEM
PERATURE. PART I,

(U)

MAY 63 315P GOUSE, S. WILLIAM I

REPT. NO. REPT. 8734 I

CONTRACT: NONR184173

UNCLASSIFIED REPORT

DESCRIPTORS: (*BIBLIOGRAPHIES, INDEXES),
(*GAS FLOW, FLUID FLOW), BOILING, BUBBLES,
CAPILLARY TUBES, COMPRESSIBLE FLOW, OSCILLATION,
HYDRODUCT ENGINES, ABSTRACTS.

(U)

IDENTIFIERS: 1963, TWO-PHASE FLOW.

(U)

A TOTAL OF 2000 SEPARATE REFERENCES ON CERTAIN
TYPES OF TWO-PHASE GAS-LIQUID FLOW PHENOMENA HAVE
BEEN FOUND, VERIFIED, LISTED, AND INDEXED BY SUB JECT
AND PRINCIPLE AUTHOR. THIS LITERATURE SUR VEY WAS
CARRIED OUT AS ONE PHASE OF A PROGRAM TO DETERMINE
THE STATE OF THE ART IN TWO-PHASE GAS LIQUID FLOW
PHENOMENA. IT IS EXPECTED THAT THIS PROGRAM WILL
CONTINUE WITH THE ADDITIONAL PUBLI CATION OF CRITICAL
REVIEWS AND EVALUATIONS OF VARIOUS PROBLEM AREAS IN
TWO-PHASE FLOW AS WELL AS WITH THE PUBLICATION OF
PART II OF THE INDEX. THE PROBLEM AREAS OF
CONDENSATION, CAVITATION, AND ATOMIZATION HAVE BEEN
EXCLUDED EXCEPT WHEN REFERENCES WERE OF SUCH A BASIC
CHARACTER AS TO BE GENERALLY USEFUL.

(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-412 411

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
METALWORKING APPLICATIONS OF LASERS: AN ANNOTATED
BIBLIOGRAPHY, (U)

FEB 63 25P HELEN, COMP. BY I

REPT. NO. SPECIAL BIBLIOGRAPHY SB63 221 REPT. NO. 5 73
63 5

UNCLASSIFIED REPORT

DESCRIPTORS: (•METALLURGY, LASERS), (•LASERS,
METALLURGY), WELDING, MACHINING, MELTING,
VAPORIZATION, MATERIAL REMOVAL, DRILLS, RUBY,
LASERS, CUTTING TOOLS, DESIGN, ELECTRICAL
ENGINEERING, MANUFACTURING METHODS, ELECTRONICS,
STAINLESS STEEL, ABSTRACTS, REPORTS, TITANIUM
ALLOYS, ALLOYS, TUNGSTEN, ALUMINUM, NICKEL,
DIAMONDS, MOLYBDENUM, CRYSTALS, CRYSTAL
STRUCTURE, LABORATORY EQUIPMENT, MEDICINE,
PHOTOGRAPHY, BIBLIOGRAPHIES (U)

IDENTIFIERS: 1963, LASERBEAM WELDING. (U)

APPLICATIONS OF LASERS IN METALWORKING ARE RE
PORTED WITH EXCERPTS, SUMMARIES AND QUOTATIONS
POINTING OUT THE MOST RELEVANT INFORMATION IN THE
ITEMS REVIEWED. METALWORKING APPLICATIONS INCLUDE
WELDING, MACHINING, PIERCING AND DRILLING, MELTING
AND VAPORIZING, FABRICATION OF REFRACTORY MATERIALS,
AND THE MICROWELDING AND MICROMACHINING OF FRAGILE
COMPONENTS AND INTER CONNECTIONS FOR ELECTRONICS AND
OPTICAL COMMUNICATIONS USES. MEASURING AND GAGING
APPLICATIONS, HIGH SPEED PHOTOGRAPHY, HIGH
TEMPERATURE TESTING OF MATERIALS CHARACTERISTICS ARE
OTHER LIKELY APPLICATIONS MENTIONED. REFERENCES
ARE MADE ALSO TO SAFETY PRECAUTIONS FOR USE, AND TO
COMPONENTS AND EQUIPMENT NOW AVAILABLE FOR
EXPERIMENTAL OR SHOP USE. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-412 458

AIR FORCE CAMBRIDGE RESEARCH LABS L G HANSCOM FIELD
MASS

A LITERATURE SURVEY OF THE PURIFICATION OF ELECTRONIC
MATERIALS, (U)

JUN 63 36P ARMINGTON, A. F. IDILLON
G. F. MITCHELL, R. F. I

PROJ: 5620

MONITOR: AFCL 63 160

UNCLASSIFIED REPORT

DESCRIPTORS: (*SEMICONDUCTOR, MATERIALS),
(*BIBLIOGRAPHIES, SEMICONDUCTOR), (*PURIFICA
TION, SEMICONDUCTORS), (*ELEMENTALS),
ALUMINUM, ANTIMONY, ARSENIC, BISMUTH,
BORON, CADMIUM, GALLIUM, GERMANIUM, INDIUM,
LEAD, MAGNESIUM, MERCURY, PHOSPHORUS,
SELENIUM, SILICON, SULFUR, TELLURIUM, TIN,
ZINC. (U)

IDENTIFIERS: 1963. (U)

THIS REPORT, THE SECOND IN A SERIES UNDER THE
GENERAL TITLE OF PURIFICATION, IS A LITERATURE SURVEY
ON THE PURIFICATION PROCEDURES APPLIED TO NINETEEN
ELEMENTS USED IN THE ELECTRONIC INDUSTRY. THERE IS
AN ADDITIONAL SECTION ON THE ATTAINMENT OF
STOICHIOMETRY IN COMPOUND SEMICONDUCTORS BY THE
INDUSTRY AND A SUMMARY CHART OF THE PROBABLE BEST
PURIFICATION PROCEDURE FOR EACH ELEMENT.

(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-412 953

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

LATTICE DYNAMICS ANNOTATED BIBLIOGRAPHY OF SOVIET
LITERATURE. (U)

AUG 63 34P

MONITOR: AID REPT. B63 101

UNCLASSIFIED REPORT

DESCRIPTORS: (*BIBLIOGRAPHIES, *CRYSTAL
LATTICES), COMPRESSIVE PROPERTIES, TEMPERATURE,
HIGH-PRESSURE RESEARCH, ENERGY, THERMAL
CONDUCTIVITY, SPECTRA(INFRARED), MOLECULES,
VIBRATION (U)

IDENTIFIERS: 1943, USSR. (U)

CONTENTS: CHARACTERISTIC TEMPERATURES HIGH
PRESSURES AND COMPRESSIBILITIES LATTICE ENERGIES
HEAT CAPACITIES INFRARED LATTICE VIBRATIONAL
SPECTRA THERMAL CONDUCTIVITY (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-412 971

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
VIBRATIONS OF THIN SHELLS: A PARTIALLY ANNOTATED
BIBLIOGRAPHY,

(U)

APR 63 97P GROS, COMP. BY CHARLES G. I

FORSBERG, KEVIN I

REPT. NO. SPECIAL BIBLIOGRAPHY SB63 431

CONTRACT: AFO4 695 59

UNCLASSIFIED REPORT

DESCRIPTORS: (BIBLIOGRAPHIES, VIBRATION),
(VIBRATION, STRUCTURAL SHELLS), ELASTIC
SHELLS, SPHERES, CONICAL BODIES, GEOMETRIC
FORMS, CYLINDRICAL BODIES, FLUTTER, THICKNESS,
FLUIDS.

(U)

IDENTIFIERS: 1963, THIN SHELLS.

(U)

THE VIBRATION OF THIN SHELLS IS THE SUBJECT OF THIS
BIBLIOGRAPHY. WITH THE EXCEPTION OF THE WORK ON
FLUTTER, AN A IS MADE TO PROVIDE AS COMPLETE COVERAGE
AS POSSIBLE. SINCE MUCH OF THE WORK ON THE FLUTTER
OF CYLINDRICAL SHELLS IS CONCERNED MORE WITH
AERODYNAMICS AND FLUID FLOW THAN WITH SHELL DYNAMICS
AS SUCH, ONLY FLUTTER MATERIAL OF GENERAL INTEREST
FROM THE STRUCTURAL POINT OF VIEW HAS BEEN CITED.
THE 215 CITATIONS GIVEN COVER THE PERIOD FROM 1957
THROUGH MARCH 1963. THE TWO BIBLIOGRAPHIES BY W.
A. NASH, TO WHICH REFERENCE IS MADE, COVER THE
PERIOD FROM 1880 THROUGH 1956. THERE IS, IN
ADDITION TO THE TEN MAJOR SUBJECT CATEGORIES INTO
WHICH MOST OF THE CITATIONS FALL, A SECONDARY
SUBJECT INDEX INDICATING NINE OTHER SUBJECTS.
PERSONAL AND CORPORATE AUTHOR INDEXES ARE IN
CLUDED. THE RESOURCES OF THE TECHNICAL INFORMA
TION CENTER, LOCKHEED MISSILES + SPACE
COMPANY, WERE UTILIZED. SEARCH COMPLETED APRIL
1963. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-414 327

AEROSPACE INFORMATION DIV LIBRARY OF CONGRESS WASHINGTON D
C

PLASMA SPECTROSCOPY, ANNOTATED BIBLIOGRAPHY. (U)

JUL 63 40P

MONITOR: AID B63 93

UNCLASSIFIED REPORT

DESCRIPTORS: (*PLASMA PHYSICS, BIBLIOGRA
PHIES), (*BIBLIOGRAPHIES, PLASMA PHYSICS),
(*SPECTROSCOPY, PLASMA PHYSICS), ELECTRIC ARCS,
ELECTRIC DISCHARGES, PLASMA OSCILLATIONS, GAS
DISCHARGES. (U)

IDENTIFIERS: 1963. (U)

ANNOTATED BIBLIOGRAPHY ON PLASMA SPECTROSCOPY RESEARCH IN
THE SOVIET UNION.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-416 376

MELLON INST PITTSBURGH PA

PROBLEMS IN RHEOLOGY AND PHYSICAL CHEMISTRY.

(U)

DESCRIPTIVE NOTE: FINAL REPT.,

IV

COLEMAN, BERNARD D. I

MONITOR: AFOSR

UNCLASSIFIED REPORT

FOR REFERENCE ONLY AT EACH OF THE DDC OFFICES. THIS

REPORT CANNOT BE SATISFACTORILY REPRODUCED DDC DOES NOT
FURNISH COPIES.

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*CONTINUUM MECHANICS, REPORTS),

(*THERMODYNAMICS, REPORTS), (*FLUID MECHANICS,

REPORTS), (*POLYMERS, PHYSICAL CHEMISTRY),

(*BIBLIOGRAPHIES, POLYMERS), FLUID FLOW,

VISCOELASTICITY, STRESSES, STRAIN (MECHANICS), FLUIDS,

FLUID DYNAMIC PROPERTIES, VISCOSITY, THERMAL

CONDUCTIVITY, ADSORPTION, POLYMERIZATION

(U)

IDENTIFIERS: 1963

(U)

COMPILATION OF REPRINTS AND PREPRINTS ON RHEOLOGY;

THERMODYNAMICS, CONTINUUM MECHANICS, AND THE PHYSICAL
CHEMISTRY OF POLYMERS: FINAL REPORT.

UNCLASSIFIED

ODC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-417 336

YERKES OBSERVATORY WILLIAMS BAY WIS
THE STUDY OF HYDROMAGNETIC PROBLEMS BEARING ON
GEOMAGNETISM.

(U)

DESCRIPTIVE NOTE: FINAL REPT.;

61 40P CHANDRASEKHAR, S. I

CONTRACT: AF19 604 2046

MONITOR: AFCL 62 1075

UNCLASSIFIED REPORT

DESCRIPTORS: (•ABSTRACTS, TERRESTRIAL
MAGNETISM), (•BIBLIOGRAPHIES, TERRESTRIAL
MAGNETISM), (•MAGNETOHYDRODYNAMICS, BIBLIO
GRAPHIES), HYDRODYNAMICS, THERMODYNAMICS,
PLASMA PHYSICS, MATHEMATICAL ANALYSIS,
STABILITY.

(U)

IDENTIFIERS: 1962.

(U)

FORTY-TWO ABSTRACTS OF PUBLICATIONS ON HYDROMAGNETIC
PROBLEMS BEARING ON GEOMAGNETISM; FINAL REPORT.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-419 449

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
SHOCK WAVE PROPAGATION IN SOLIDS: AN ANNOTATED
BIBLIOGRAPHY,

(U)

MAR 63 61P STROMER, COMP. BY PETER R. I
REPT. NO. SPECIAL BIBLIOGRAPHY NO. SB63 311
CONTRACT: N0W63 0050C

UNCLASSIFIED REPORT

DESCRIPTORS: (SHOCK WAVES, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, SHOCK WAVES), PROPAGATION,
SOLIDS, BLAST, IMPACT SHOCK, PLASTICITY, VIS
COELASTICITY, ELASTICITY, JETS, COMPRESSIVE
PROPERTIES.

(U)

IDENTIFIERS: 1963.

(U)

A BIBLIOGRAPHY HAS BEEN COMPILED ON SHOCK WAVE
PROPAGATION IN SOLIDS. THE EFFECTS OF EXPLOSIVE
BLAST WAVES AND/OR HYPERVELOCITY IMPACT ON PLASTIC,
VISCOELASTIC, AND ELASTOPLASTIC SOLIDS HAVE ALSO BEEN
INCLUDED. A DETAILED SUBJECT INDEX IS PROVIDED.
(AUTHOR)

(U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-419 491

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
PLASMA JET WELDING, COATING, AND CUTTING: AN
ANNOTATED BIBLIOGRAPHY, (U)

FEB 63 20P BUGINAS,COMP.BY SCOTT J.I
REPT. NO. S 73 63 41

UNCLASSIFIED REPORT

DESCRIPTORS: (*PLASMA JETS, WELDING), (*COAT
INGS, PLASMA JETS), (*CUTTING TOOLS, PLASMA
JETS), (*BIBLIOGRAPHIES, PLASMA JETS), ELEC
TRODES, CATHODES, BEARINGS, ALLOYS, CORROSION
INHIBITION, MACHINING, FLAME SPRAYING, UNDER
WATER CUTTING, TOXICITY, TORCHES, PROCESSING. (U)

IDENTIFIERS: 1963. (U)

THE SEARCH WAS MADE IN THE LITERATURE OF 1960
1962. NEWS-RELEASE TYPE ARTICLES WERE INCLUDED
BECAUSE OF OUR INTEREST IN MANUFACTURING APPLICA
TIONS. ANONYMOUS ARTICLES ARE INTERFILED ALPHA
BETICALLY BY TITLE WITHIN THE BIBLIOGRAPHY WHICH IS
ARRANGED ALPHABETICALLY BY AUTHOR. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-419 558

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF

EPITAXIAL GROWTH: AN ANNOTATED BIBLIOGRAPHY, (U)

APR 63

69P

ABBOTT, COMP. BY HELEN M. I

KERRIGAN, JAMES V. I

REPT. NO. SPECIAL BIBLIOGRAPHY SB63 321

UNCLASSIFIED REPORT

DESCRIPTORS: (•EPITAXIAL GROWTH, BIBLIOGRAPHIES), (•CRYSTAL GROWTH, BIBLIOGRAPHIES),
PROCESSING, THIN FILMS (STORAGE DEVICES),
SINGLE CRYSTALS, THICKNESS, SILICON, ARSENIC,
ANTIMONY, BISMUTH, COPPER, REACTION KINETICS,
FILMS, GERMANIUM, VAPORIZATION, DIFFUSION,
QUALITY CONTROL, DIAMONDS. (U)

IDENTIFIERS: 1963. (U)

THIS COMPILATION CONTAINS 169 SELECTED REFERENCES
AND A PREFACE ON EPITAXIAL CRYSTAL GROWTH. INCLUDED
ARE SUCH FACTORS AS CRYSTAL GROWTH AND FORMATION,
VAPOR GROWTH, TWINNING, AND THIN FILM PROCESSES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-419 845

NATIONAL BUREAU OF STANDARDS WASHINGTON D C
RESEARCH ON CRYSTAL GROWTH AND DEFECT
CHARACTERIZATION AT THE NATIONAL BUREAU OF STANDARDS
DURING THE PERIOD JULY TO DECEMBER 1962, (U)
MAP 43 32P PEISER, H. STEFFEN I
MONITOR: NBS TN174

UNCLASSIFIED REPORT

DISTRIBUTION: AVAILABLE FROM GPO WASHINGTON, 25,
D. C.

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•CRYSTAL GROWTH, REVIEWS), (•CRYSTAL
LATTICE DEFECTS, REVIEWS), (•REVIEWS, CRYSTAL GROWTH),
OPTICAL PROPERTIES, CRYOGENICS, EPITAXIAL GROWTH,
REACTION KINETICS, CRYSTALLIZATION, INSTRUMENTATION,
METALLIC CRYSTALS, CRYSTALS, SINGLE CRYSTALS,
POLYMERS, MAGNETIC PROPERTIES, SURFACE PROPERTIES,
CRYSTAL STRUCTURE, ABSTRACTS, BIBLIOGRAPHIES (U)
IDENTIFIERS: WHISKERS, 1963 (U)

THIS NOTE DESCRIBES PRINCIPALLY THE INDIVIDUAL
NBS RESEARCH ACTIVITIES DURING JULY TO DECEMBER
1962 COUPLED WITH STATEMENTS ON THE MOST IMMEDIATE
PLANS AT THE END OF THAT PERIOD. AN INTRODUCTORY
SECTION IS FOLLOWED BY TWO OTHER BRIEF GENERAL
SECTIONS DESCRIBING THE PROGRAM AREA AND THE NBS
BACKGROUND INTEREST IN THE FIELD OF CRYSTAL GROWTH
AND CHARACTERIZATION. A LIST OF NBS PUBLICATIONS
APPERTAINING TO THE PERIOD UNDER REVIEW AND A PARTIAL
LIST OF PARTICIPANTS ARE APPENDED. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-421 440

DOUGLAS AIRCRAFT CO INC SANTA MONICA CALIF

BIBLIOGRAPHY ON BOUNDARY LAYER TRANSITION, (U)

AUG 63 13P

DEEM, RALPH E. I

REPT. NO. SM43059

CONTRACT: AF33 657 10660

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BOUNDARY LAYER TRANSITION,
BIBLIOGRAPHIES), (*BIBLIOGRAPHIES, BOUNDARY LAYER
TRANSITION), LAMINAR FLOW, TURBULENCE, PLATE PLATE
MODELS, CYLINDERS, BODIES OF REVOLUTION, FLOW
VISUALIZATION (U)

IDENTIFIERS: 1963 (U)

A LIST OF ONE HUNDRED SEVENTEEN DOCUMENTS IS
PRESENTED THAT RELATE TO THE SUBJECT OF BOUNDARY
LAYER TRANSITION. THE DOCUMENTS ARE SEGREGATED
INTO CATEGORIES OF REVIEWS AND CORRELATIONS, THEORY,
NATURAL TRANSITION ON FLAT PLATES, NATURAL
TRANSITION ON BODIES, GENERAL BOUNDARY LAYER
INFORMATION, TRIPPING, AND FLOW VISUALIZATION
TECHNIQUES. THE BULK OF THE REPORTS IN THE
BIBLIOGRAPHY WERE PUBLISHED DURING THE TEN YEAR
PERIOD ENDING AUGUST 1963. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-421 701

JOHNS HOPKINS UNIV SILVER SPRING MD APPLIED PHYSICS
LAB

AN ANNOTATED BIBLIOGRAPHY OF SOVIET LITERATURE ON
MASERS AND LASERS,

SEP 63 68P BLAU, E. J. 1 (U)

REPT. NO. TG230B1

CONTRACT: N0W62 D604C

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•MASERS, BIBLIOGRAPHIES), (•LASERS,
BIBLIOGRAPHIES), (•BIBLIOGRAPHIES, MASERS), ABSTRACTS,
SUBJECT INDEXING (U)

IDENTIFIERS: 1963 (U)

THIS BIBLIOGRAPHY LISTS AND ABSTRACTS ALL OF THE
SOVIET LITERATURE DEALING DIRECTLY WITH MASERS AND
LASERS PUBLISHED BEFORE 1963. PERIPHERAL ARTICLES,
ARTICLES WHICH SERVE AS PARTIAL FOUNDATION AND
GENERAL BACKGROUND TO THE SUBJECT, HAVE BEEN OMITTED.
THE EARLIEST REFERENCE IS THE DOCTORAL DISSERTATION
BY V. A. FABRIKANT, DATED 1939. REFERENCES ARE
GIVEN TO A FEW TRANSLATIONS DATED 1963, BUT IN ALL
CASES THE ORIGINALS WERE PUBLISHED PRIOR TO THE END
OF 1962. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-422 890

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

NONLINEAR FIELD THEORIES (ANNOTATED
BIBLIOGRAPHY).

(U)

DESCRIPTIVE NOTE: REPT. JAN 58-FEB 63.

OCT 63 36P

MONITOR: AID 843 115

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•FIELD THEORY, NON-LINEAR SYSTEMS),
(•BIBLIOGRAPHIES, FIELD THEORY), PLASMA MEDIUM,
MATHEMATICAL MODELS, FERMIONS, GRAVITY, EQUATIONS,
ELEMENTARY PARTICLES, ANTI-PROTONS, PERTURBATION
THEORY, PIONS, QUANTUM STATISTICS, SCATTERING,
POLARIZATION, BOSONS, OSCILLATION, DIFFUSION
IDENTIFIERS: 1963

(U)

(U)

A PRELIMINARY SURVEY OF SOVIET-BLOC MATERIALS
ON NONLINEAR FIELD THEORIES (ELEMENTARY
PARTICLES) IS PRESENTED. IT CONSISTS OF
ANNOTATIONS TO 81 ARTICLES AND 2 BOOKS FROM THE
PERIOD JANUARY 1958-FEBRUARY 1963. THE ENTRIES
ARE ARRANGED BY YEAR AND WITHIN THE YEAR BROKEN DOWN
ALPHABETICALLY BY AUTHOR. A LIST OF THE
PERIODICALS EMPLOYED IN PREPARING THE REPORT WILL BE
FOUND BEFORE THE AUTHOR INDEX, TOGETHER WITH THEIR
LIBRARY OF CONGRESS CALL NUMBERS. THE CALL
NUMBERS OF THE BOOKS ARE GIVEN IN THE BODY OF THE
REPORT. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-423 294

MINNESOTA UNIV MINNEAPOLIS INST OF TECH
ANNOTATED BIBLIOGRAPHY ON ELASTIC WAVES,

SEP 63 14P DOOLEN, R. B. IANTHAN, S. I

CONTRACT: NOBS86783

(U)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPORT ON RESPONSE OF LARGE
ELASTIC BODIES TO VIBRATORY FORCES ON SMALL
AREAS.

DESCRIPTORS: (BIBLIOGRAPHIES, MECHANICAL WAVES),
(MECHANICAL WAVES, BIBLIOGRAPHIES), ELASTICITY,
PROPAGATION, STRESSES, RODS

(U)

IDENTIFIERS: 1563, ELASTIC WAVES, RAYLEIGH WAVES

(U)

THIS ANNOTATED BIBLIOGRAPHY IS THE RESULT OF A
LITERATURE SEARCH FOR METHODS OF SOLUTION OF
SINUSOIDALLY EXCITED, STEADY STATE, ELASTIC WAVE
PROPAGATION IN EXTENSIVE ELASTIC BODIES. TRANSIENT
EFFECTS WERE EXCLUDED. PAPERS ON FINITE SYSTEMS
SUCH AS BEAMS WITH DIFFERENT END CONDITIONS, PLATES
AND SHELLS WERE EXCLUDED UNLESS THEY CONTRIBUTED
METHODS USEFUL FOR THE WAVE PROPAGATION PROBLEM.
THE ANALYSIS OF DISSIPATIVE MEDIA WAS NOT
SPECIFICALLY EXCLUDED BUT LITTLE WAS FOUND. THE
PAPERS ARE ROUGHLY DIVIDED INTO TWO MAIN
CLASSIFICATIONS: THOSE DEALING WITH SPECIFIC WAVE
PROPAGATION PROBLEMS AND THOSE DEALING WITH MORE
GENERAL METHODS APPLICABLE TO A WIDE CLASS OF
PROBLEMS. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-423 735

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
SUPERCONDUCTIVITY, 1961-1962: AN ANNOTATED
BIBLIOGRAPHY, SUPPLEMENT 1,

(U)

91P GOLDMANN, COMP. BY JACK B. I

REPT. NO. 6 90 63 43 ,5863 33

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SUPERCONDUCTORS, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, SUPERCONDUCTORS), ABSTRACTS
IDENTIFIERS: 1963

(U)

(U)

CURRENT THEORY, PROPERTIES AND APPLICATIONS OF
SUPERCONDUCTORS AS PRESENTED IN THE LITERATURE FOR
THE YEARS 1961-1962 ARE COVERED IN THIS ANNOTATED
BIBLIOGRAPHY. THE 196 ENTRIES, REPRESENTING
ENGLISH AND FOREIGN LANGUAGE PUBLICATIONS ARE
ARRANGED IN ALPHABETICAL SEQUENCE ACCORDING TO
AUTHOR. AUTHOR AND SUBJECT INDEXES FACILITATE
LOCATION OF SPECIFIC ITEMS. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-427 135

WASHINGTON UNIV SEATTLE

CHEMICAL ACTIVATION,

(U)

JAN 64 IV

RABINOVITCH, B. S. I

FLOWERS, M. C. I

CONTRACT: NONR47736

TASK: DBI 217

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (REVIEWS, HEAT OF ACTIVATION), (HEAT OF ACTIVATION, CHEMICAL REACTIONS), (MOLECULES, HEAT OF ACTIVATION), (CHEMICAL REACTIONS, HEAT OF ACTIVATION), EXCITATION, REACTION KINETICS, SURFACES, ENERGY, DECOMPOSITION, MOLECULAR ASSOCIATION, EXCHANGE REACTIONS, LUMINESCENCE, RECOMBINATION REACTIONS, DISPLACEMENT REACTIONS, CYCLOALKANES, HYDROGEN, NITROGEN, OXYGEN, CHLORINE, DISSOCIATION, BIBLIOGRAPHIES, ALKENES, MONOCYCLIC COMPOUNDS, HIGH-TEMPERATURE RESEARCH, MOLECULAR ISOMERISM, NITROGEN COMPOUNDS, CHLORINE COMPOUNDS, CRYOGENICS, CHLORIDES, OXIDES (U)

THIS REVIEW BRINGS TOGETHER KNOWN EXAMPLES OF CHEMICAL ACTIVATIONS SYSTEMS, WHICH HAVE BEEN ACCUMULATING INCREASINGLY IN RECENT YEARS, IN ORDER TO CLARIFY THEIR NATURE AND TO EXEMPLIFY THEIR USEFULNESS. THE MAJOR EMPHASIS IS ON ACTIVATED MOLECULES PRODUCED IN ELECTRONIC GROUND STATES; THESE ARE THE SIMPLEST SYSTEMS. BRIEF MENTION OF SOME REACTIONS INVOLVING ELECTRONIC EXCITATION WILL BE GIVEN, HOWEVER, SINCE THESE INCLUDE IMPORTANT EXAMPLES OF CHEMICAL ACTIVATION. SOME SYSTEMS, SUCH AS ATOM RECOMBINATION, HAVE BEEN STUDIED IN GREAT DETAIL IN RECENT YEARS AND CANNOT BE CONSIDERED HERE AT LENGTH. ION-MOLECULE ACTIVATION REACTIONS ARE ARBITRARILY OMITTED. MANY CHEMICAL ACTIVATION SYSTEMS ARE NOT AMENABLE TO USEFUL DISCUSSION, EITHER BECAUSE OF THEIR COMPLEXITY OR BECAUSE INSUFFICIENT DATA ARE AVAILABLE. ONLY SOME OF THESE NEED BE MENTIONED. THE PRESENT REVIEW IS NOT CONCERNED WITH EXPERIMENTAL TECHNIQUES. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-427 157

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

LUMINESCENCE OF COMPLEX MOLECULES. ANNOTATED
BIBLIOGRAPHY BASED ON SOVIET OPEN LITERATURE.

(U)

DESCRIPTIVE NOTE: REPT. NO. 1, JULY-DEC 62.

DEC 63 74P

MONITOR: AID B63 125

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COMPLEX COMPOUNDS, LUMINESCENCE),
(*LUMINESCENCE, BIBLIOGRAPHIES), (*BIBLIOGRAPHIES,
LUMINESCENCE), (*FLUORESCENCE, BIBLIOGRAPHIES),
EXCITATION, LIFE EXPECTANCY, QUANTUM MECHANICS, DYES,
LASERS, MOLECULAR SPECTROSCOPY, ABSTRACTS (U)
IDENTIFIERS: 1963, USSR, CHEMILUMINESCENCE (U)

THIS BIBLIOGRAPHY IS BASED ON SOVIET OPEN-SOURCE
MATERIALS AVAILABLE AT THE AEROSPACE INFORMATION
DIVISION AND THE LIBRARY OF CONGRESS AND COVERS
THE PERIOD FROM JULY THROUGH DECEMBER 1962.
BECAUSE OF ITS BROAD IMPLICATIONS, PERTINENT
INFORMATION APPEARING BETWEEN JANUARY AND JUNE
1962 WAS ALSO INCLUDED AS WELL AS REFERENCES IN SOME
ENTRIES TO EARLIER WORK ON THE SAME SUBJECT. THE
SUBJECTS OF ELECTRONIC AND VIBRATIONAL SPECTRA OF
COMPLEX ORGANIC MOLECULES, LIFETIME OF EXCITED
STATES, QUANTUM YIELD, QUENCHING, POLARIZATION, AND
KINETICS OF LUMINESCENCE OF COMPLEX ORGANIC MOLECULES
ARE COVERED. CERTAIN PHYSICAL PROPERTIES OF MATTER
RELEVANT TO LUMINESCENCE AND WITH THEORETICAL ASPECTS
OF MOLECULAR SPECTROSCOPY, INTERNAL ENERGY-CONVERSION
PROCESSES, AND INTRA- OR INTERMOLECULAR ENERGY
TRANSFER IN LUMINESCENT COMPLEX ORGANIC MOLECULES ARE
ALSO PRESENTED. APPLICATIONS ARE INCLUDED OF
LUMINESCENCE, MAINLY TO GENERATION OF COHERENT LIGHT
(LASERS). ANNOTATIONS HAVE BEEN PROVIDED IN ALL
CASES WHERE ABSTRACTS ARE NOT AVAILABLE. (AUTHOR)

(U)

UNCLASSIFIED

ODC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-427 339

MIDWEST RESEARCH INST KANSAS CITY MO

THE STRUCTURE AND STRENGTH OF EPITAXIAL FILMS. (U)

DESCRIPTIVE NOTE: BIMONTHLY PROGRESS REPT. NO. 1, 17

OCT-17 DEC 63,

JAN 64 18P LAVIK, MELVIN I

CUNNINGHAM, ARTHUR I

CONTRACT: N0W64 00610

PROJ: 2742P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•EPITAXIAL GROWTH, FILMS), (•FILMS,

SINGLE CRYSTALS), (•REVIEWS, FILMS),

(•BIBLIOGRAPHIES, FILMS), CRYSTAL GROWTH,, SINGLE

CRYSTALS, SCIENTIFIC RESEARCH, CRYSTAL LATTICE

DEFECTS, IMPURITIES, MECHANICAL PROPERTIES (U)

IDENTIFIERS: 1964 (U)

LITERATURE HAS BEEN REVIEWED AND CATEGORIZED WITH A CODING SYSTEM. A SUMMARY OF THE LITERATURE IS INCLUDED ALONG WITH A BRIEF OUTLINE OF FUTURE WORK TO BE ACCOMPLISHED DURING THE SECOND REPORT PERIOD. THE CODED BIBLIOGRAPHY CONTAINING APPROXIMATELY ONE HUNDRED REFERENCES IS INCLUDED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-427 728

UNITED STATES RUBBER CO WAYNE N J
LITERATURE SEARCH INTO METHODS OF DAMPING OUT
INCIPIENT TURBULENCE IN THE FLOW OF LIQUIDS. (U)
DESCRIPTIVE NOTE; FINAL REPT.,
JAN 64 IV THOMPSEN, J. BOGGS, F. W. I
TOKITA, N. I
CONTRACT! DA30 069AMC287T
PROJ! RC100 63 23

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•TURBULENCE, FLUID FLOW), (•LIQUIDS,
DAMPING), (•DAMPING, BIBLIOGRAPHIES),
(•BIBLIOGRAPHICS, DAMPING), (•ABSTRACTS, DAMPING),
LAMINAR FLOW, TURBULENT BOUNDARY LAYER, INCOMPRESSIBLE
FLOW, FLAT PLATE MODELS, PIPES, TRANSITION
TEMPERATURE, COATINGS (U)
IDENTIFIERS: 1964 (U)

THE PROBLEM OF DELAYING TRANSITION FROM LAMINAR TO
TURBULENT FLOW HAS LONG BEEN UNDER INVESTIGATION.
THIS REPORT PRESENTS A BIBLIOGRAPHY ON THE WORK
THAT HAS BEEN DONE FOR THE LAST 40 TO 50 YEARS ON
THIS PROBLEM OF TRANSITION, SPECIFICALLY FOR
INCOMPRESSIBLE FLOW, OVER FLAT PLATES OR IN PIPES.
THE ARTICLES INCLUDED IN THIS LIST ARE CONCERNED
WITH TWO QUESTIONS: (1) WHAT IS THE MECHANISM
OF TRANSITION, AND (2) HOW CAN TRANSITION BE
DELAYED. ALTHOUGH AN EXTENSIVE AMOUNT OF WORK HAS
BEEN DONE AND IS STILL BEING DONE ON THE PROBLEM OF
DELAYING TRANSITION ON RELATIVELY FLAT SURFACES BY
MEANS OF COMPLIANT COATINGS, IT DOES NOT APPEAR
FEASIBLE TO EXTEND THIS METHOD TO PIPES EXCEPT TO A
LIMITED EXTENT. HOWEVER, RECENT WORK HAS INDICATED
THAT THE ADDITION OF NONNEWTONIAN ADDITIVES TO THE
FLOW MAY BE A PROMISING WAY OF DELAYING TRANSITION IN
PIPING SYSTEMS, SUCH AS HYDPAULIC LINE, NORMALLY
FOUND IN INDUSTRY. IT SHOULD BE NOTED THAT
REDUCTION OF NOISE IN PIPES IS POSSIBLE WITH THE USE
OF FLEXIBLE SURFACES. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-427 795

MARYLAND UNIV COLLEGE PARK
MANY-BODY PROBLEM.

(U)

DESCRIPTIVE NOTE: REPT. FOR DEC 62-DEC 63,
DEC 63 9P FERRELL, RICHARD A. I
CONTRACT: NONR1797 00

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*NUCLEAR PHYSICS, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, NUCLEAR PHYSICS), BREMSSTRAHLUNG,
ISOTOPIES, NUCLEAR SPINS, NUCLEAR RESONANCE, THEORY,
DYNAMICS, ERBIUM, NUCLEONS, DAMPING, VIBRATION,
ROTATION, NUCLEAR REACTIONS, PHOTONUCLEAR REACTIONS,
ANALYSIS

(U)

IDENTIFIERS: 1963, MANY-BODY PROBLEM

(U)

BIBLIOGRAPHY ON NUCLEAR PHYSICS, APPLICABLE TO THE MANY-
BODY PROBLEM.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-430 549

GEORGIA INST OF TECH ATLANTA ENGINEERING EXPERIMENT
STATION

MANUSCRIPT OF CATALOGUE, VOLUME 9. A SECOND RADIO
FREQUENCY INTERFERENCE BIBLIOGRAPHY, WITH ABSTRACTS.
ELECTRONIC EQUIPMENT INTERFERENCE CHARACTERISTICS-
COMMUNICATION TYPE, (U)

DEC 63 352P WOOD, E. W. ROSE, J. W. I

CONTRACT: DA36 039AMC02294E

PROJ: 3824 01 001, A670

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•RADIOFREQUENCY INTERFERENCE,
BIBLIOGRAPHIES), (•ELECTRONIC EQUIPMENT,
RADIOFREQUENCY INTERFERENCE), (•BIBLIOGRAPHIES,
RADIOFREQUENCY INTERFERENCE), ABSTRACTS, PULSE
COMMUNICATION SYSTEMS, ELECTROMAGNETIC WAVES,
INDEXES (U)

IDENTIFIERS: 1963 (U)

THIS BIBLIOGRAPHY, WITH ABSTRACTS, IS THE RESULT OF
A CONTINUED LITERATURE SEARCH BEING CONDUCTED IN
CONJUNCTION WITH THE MEASUREMENTS PORTION ON A
RESEARCH PROGRAM FOR DEVELOPING TESTS AND TEST
PROCEDURES FOR DETERMINING THE INTERFERENCE
CHARACTERISTICS OF U. S. ARMY PULSE TYPE
COMMUNICATIONS SYSTEMS. THE BIBLIOGRAPHY CONTAINS
OVER 1150 TITLES, SUMMARIES, AND ABSTRACTS OF
PUBLISHED WORKS RELATED TO RADIO FREQUENCY
INTERFERENCE AND ELECTROMAGNETIC COMPATIBILITY DURING
THE PERIOD FROM JANUARY 1960 TO JUNE 1963. THE
ACCUMULATED REFERENCES FROM MORE THAN 50 SOURCES
SHOULD BE USEFUL IN ALL PHASES OF RFI
INVESTIGATIONS RANGING FROM THE PRACTICAL ELIMINATION
OF TVI TO THE THEORETICAL DISCUSSION OF SIGNAL
DETECTION FOR VARIOUS INTERFERENCE ENVIRONMENTS.
AN AUTHOR INDEX AND A SUBJECT INDEX CONTAINING 68
CATEGORIES ARE INCLUDED TO AID THE RESEARCHER IN
FINDING PERTINENT SUBJECT INFORMATION. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-431 286

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

SUPERSONIC AND HYPERSONIC FLOW, ANNOTATED
BIBLIOGRAPHY OF SOVIET LITERATURE.

(U)

JAN 64 93P

MONITOR: AID B64 3, 1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•HYPERSONIC FLOW, BIBLIOGRAPHIES),
(•SUPERSONIC FLOW, BIBLIOGRAPHIES), (•AERODYNAMIC
CONFIGURATIONS, FLUID FLOW), BOUNDARY LAYER, BOUNDARY
LAYER PROBLEMS, SHOCK WAVES, TURBULENCE, NOZZLES,
DIFFUSERS, WIND TUNNELS, BLUNT BODIES, WEDGES, SPIKES,
ABLATION, HEAT TRANSFER, COMPRESSIBLE FLOW, GAS FLOW,
SLENDER BODIES, DISKS, STRUCTURAL SHELLS, BODIES OF
REVOLUTION, LIFT, DRAG, GEOMETRIC FORMS, CURVED
PROFILES, CYLINDRICAL BODIES

(U)

IDENTIFIERS: 1943, 1963, 1964, USSR, FREE MOLECULAR
FLOW, POTENTIAL FLOW THEORY

(U)

THIS REPORT IS DIVIDED INTO THREE MAIN SECTIONS:
AERODYNAMICS, GASDYNAMICS, AND GENERAL FLOW
PHENOMENA. AN ATTEMPT IS MADE IN THE FIRST
SECTION TO COVER DYNAMIC PHENOMENA ASSOCIATED WITH
THE HIGH-VELOCITY FLOW OF GASES OVER BODIES,
INCLUDING RAREFIED AND FREE-MOLECULAR FLOW. THE
SECOND SECTION COVERS THE PROBLEMS ASSOCIATED WITH
INTERNAL FLOW, E. G., FLOW IN NOZZLES, WIND TUNNELS,
AND SHOCK TUBES. SIMILARITY CONCEPTS ARE ALSO
INCLUDED IN THIS SECTION. THE THIRD SECTION DEALS
WITH GENERAL FLOW PHENOMENA AT SUPERSONIC AND
HYPERSONIC VELOCITIES. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-431 608

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
WIND WAVES AND SEA SLOPE MEASUREMENT: AN ANNOTATED
BIBLIOGRAPHY.

(U)

61P STROMER, PETER R. I

REPT. NO. 6 90 63 78 ,SRP63 4

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*WATER WAVES, BIBLIOGRAPHIES), WIND,
AERIAL PHOTOGRAPHY, LIGHT, LIGHT TRANSMISSION, OCEAN
WAVES, OCEANOLOGY, UNDERWATER LIGHT, UNDERWATER
PHOTOGRAPHY, WIND TUNNELS

(U)

IDENTIFIERS: 1963, SEA SLOPE

(U)

THIS BIBLIOGRAPHY CITES 134 REFERENCES ON THE
RELATED SUBJECTS OF WIND WAVES AND SEA SLOPE
MEASUREMENT. OCEANOGRAPHIC MEASUREMENTS REPORTED
IN THE BIBLIOGRAPHY HAVE EMPHASIZED OPTICAL
TECHNIQUES, LIGHT TRANSMISSION IN SEA WATER, ETC.
THE PERIOD OF LITERATURE COVERAGE IS FROM 1948
THROUGH JUNE 1963. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-434 712

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

DETECTION OF THE TRIPLET STATE BY EPR AND OTHER
METHODS. COMPILATION OF ABSTRACTS BASED ON SOVIET
OPEN LITERATURE. (U)

MAR 64 44P

MONITOR: AID P64 17

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*ABSTRACTS, SPECTROSCOPY),
(*LUMINESCENCE, ABSTRACTS), (*BIBLIOGRAPHIES,
LUMINESCENCE), (*REVIEWS, SPECTROSCOPY), DYES, ATOMIC
ENERGY LEVELS, ALKALI METAL COMPOUNDS, EXCITATION,
ELECTRON TRANSITIONS, LINE SPECTRUM (U)
IDENTIFIERS: 1964, ELECTRON PROTON RESONANCE, TRIPLET
STATE, USSR (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-436 090

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
AERODYNAMIC HEATING AND OTHER PARAMETERS AFFECTING
SPACE VEHICLE OPERATIONS: AN ANNOTATED
BIBLIOGRAPHY, (U)

FEB 63 44P GROS, CHARLES G. I

REPT. NO. 63 18, REPT. NO. 3 35 63 2

CONTRACT: AFO4 647 673

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, AERODYNAMIC HEATING),
(AERODYNAMIC HEATING, BIBLIOGRAPHIES), SPACECRAFT,
GUIDED MISSILES (SURFACE-TO-SURFACE), ABSTRACTS (U)
IDENTIFIERS: 1963 (U)

SINCE THIS WORK TREATS OF A COMPLEX OF SPACE
ENVIRONMENTAL PARAMETERS HAVING IN COMMON THE
INCLUSION OF AERODYNAMIC HEATING AS ONE OF THOSE
PARAMETERS, MATERIAL DEALING WITH AERODYNAMIC HEATING
AS AN ISOLATED PHENOMENON HAS NOT BEEN INCLUDED.
THE ABSTRACTS ARE ARRANGED ALPHABETICALLY BY
AUTHOR. CORPORATE AUTHOR, PERSONAL AUTHOR, AND
SUBJECT INDEXES ARE INCLUDED. THE PERIOD COVERED,
WITH ONE EARLIER EXCEPTION, IS FROM 1959 THROUGH
1962. THE RESOURCES OF THE TECHNICAL
INFORMATION CENTER, LOCKHEED MISSILES AND
SPACE COMPANY, WERE UTILIZED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-437 308

NATIONAL BUREAU OF STANDARDS WASHINGTON D C
RESEARCH ON CRYSTAL GROWTH AND CHARACTERIZATION AT
THE NATIONAL BUREAU OF STANDARDS, JULY TO DECEMBER
1963,

(U)

APR 64 67P PEISER, H. STEFFEN I
MONITOR: NBS TN236

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ALSO AVAILABLE FROM GOVERNMENT
PRINTING OFFICE, WASH., D. C. PRICE \$40.

DESCRIPTORS: (CRYSTAL GROWTH, SCIENTIFIC
RESEARCH), ABSTRACTS, DOCUMENTATION, PHYSICAL
PROPERTIES, RESEARCH PROGRAM ADMINISTRATION,
SCIENTIFIC PERSONNEL, CRYSTAL STRUCTURE, CRYSTAL
LATTICE DEFECTS, MATERIALS, SPECTROSCOPY,
SUPERCONDUCTIVITY, CHEMISTRY, NUCLEAR MAGNETIC
RESONANCE, BIBLIOGRAPHIES, CRYSTALLIZATION

(U)

THE NATIONAL BUREAU OF STANDARDS WITH PARTIAL
SUPPORT FROM THE ADVANCED RESEARCH PROJECTS
AGENCY IS CONTINUING DIVERSE RESEARCH PROJECTS ON
THE GROWTH AND CHARACTERIZATION OF CRYSTALS. THIS
NOTE SUMMARIZES THE INDIVIDUAL NBS ACTIVITIES IN
THIS AND CLOSELY RELATED FIELDS DURING JULY TO
DECEMBER, 1963. LISTS OF NBS PUBLICATIONS
APPERTAINING TO THAT PERIOD AND OF PARTICIPATING
NBS SCIENTISTS ARE APPENDED. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-438 180

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
SUPERCONDUCTIVITY JANUARY-JUNE 1963: AN ANNOTATED
BIBLIOGRAPHY.

(U)

118P GOLDMANN, JACK B. I

REPT. NO. 6 90 63 79 ,SRD 63 5

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (SUPERCONDUCTIVITY, BIBLIOGRAPHIES),
SUPERCONDUCTORS, CONDUCTIVITY, TRANSITION TEMPERATURE,
MAGNETIC FIELDS, DEFORMATION, THEORY (U)
IDENTIFIERS: THIN FILMS (U)

CURRENT THEORY, PROPERTIES, AND APPLICATIONS OF
SUPERCONDUCTORS AS PRESENTED IN THE LITERATURE FROM
JANUARY TO JUNE 1963, ARE COVERED IN THIS
ANNOTATED BIBLIOGRAPHY. THE 242 ENTRIES,
REPRESENTING ENGLISH AND FOREIGN LANGUAGE
PUBLICATIONS, ARE LISTED ALPHABETICALLY BY AUTHOR.
TO FACILITATE LOCATION OF SPECIFIC TERMS, AUTHOR
AND SUBJECT INDEXES ARE INCLUDED. THIS WORK IS THE
THIRD IN A SERIES OF BIBLIOGRAPHIES REPORTING CURRENT
PUBLICATIONS IN THE FIELD OF SUPERCONDUCTIVITY.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-438 181

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
SUPERCONDUCTIVITY, 1961-1962: AN ANNOTATED
BIBLIOGRAPHY,

(U)

APR 63 206P GOLDMANN, JACK B. I
REPT. NO. 6 90 63 43 SB63 33

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (=SUPERCONDUCTIVITY, BIBLIOGRAPHIES),
TRANSITION TEMPERATURE, DEFORMATION, THERMAL
CONDUCTIVITY, SUPERCONDUCTORS, THEORY
IDENTIFIERS: THIN FILMS

(U)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-447 717

FEDERAL AVIATION AGENCY WASHINGTON D C

SONIC BOOM BIBLIOGRAPHY,

(U)

SEP 64 11P FRIEDMAN, ROBERT K. I

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•SONIC BOOM, BIBLIOGRAPHIES),

(•BIBLIOGRAPHIES, SONIC BOOM), URBAN AREAS, ATTITUDES,

SUPERSONIC FLIGHT, TRANSPORT PLANES

(U)

IDENTIFIERS: 1964

(U)

THIS BIBLIOGRAPHY ON SONIC BOOM HAS BEEN COMPILED
IN RESPONSE TO A SPECIFIC REQUEST. NO CLAIM IS
MADE THAT THESE 193 CITATIONS COMPRISE AN EXHAUSTIVE
OR CRITICAL COMPILATION. THE INCLUSION OF ANY
REFERENCE TO MATERIAL IS NOT TO BE CONSTRUED AS AN
ENDORSEMENT OF THE INFORMATION CONTAINED IN THAT
MATERIAL. THE REFERENCE SEARCH WAS COMPLETED
AUGUST 28, 1964. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-451 321

BATTELLE MEMORIAL INST COLUMBUS OHIO

LATERAL VIBRATIONS IN MISSILES: A BIBLIOGRAPHY, (U)

47P HURLBERT, L. E. IBELTON, W. L.

TATTERBURY, T. J. I

CONTRACT: DA01 021AMC2032

MONITOR: RSIC 266

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (=VIBRATION, DAMPING), (=BIBLIOGRAPHIES,
VIBRATION), GUIDED MISSILES, CYLINDRICAL BODIES, BEAMS
(STRUCTURAL), MATERIALS, STRUCTURAL SHELLS (U)

IDENTIFIERS: LATERAL VIBRATIONS, TRANSVERSE
VIBRATIONS, CYLINDRICAL SHELLS (U)

THIS BIBLIOGRAPHY CONSISTS OF 377 ENTRIES, AND
CONTAINS THE RESULTS OF A TITLE SURVEY CONDUCTED TO
OBTAIN LITERATURE RELATED TO THE PROBLEM OF DAMPING
THE TRANSVERSE VIBRATION OF LARGE MISSILES. THE
TITLES ARE GROUPED INTO THREE CATEGORIES COVERING
FREE VIBRATIONS, DAMPED VIBRATIONS, AND MATERIAL
DAMPING PROPERTIES. ONLY PAPERS PUBLISHED IN
ENGLISH AFTER 1940 ARE INCLUDED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-451 426

JOHNS HOPKINS UNIV SILVER SPRING MD APPLIED PHYSICS
LAB

AN ANNOTATED BIBLIOGRAPHY ON PLASMAS IN CUSPED
MAGNETIC FIELDS AND SIMILAR GEOMETRIES, (U)

AUG 64 46P BLAU, E. J. I

REPT. NO. TG23084

CONTRACT: NON62 0604C

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•PLASMA MEDIUM, MAGNETIC FIELDS),

(•MAGNETIC FIELDS, BIBLIOGRAPHIES),

(•MAGNETOHYDRODYNAMICS, BIBLIOGRAPHIES),

(•BIBLIOGRAPHIES, MAGNETIC FIELDS), PLASMA PHYSICS,

THERMONUCLEAR REACTIONS, GEOMETRY, ABSTRACTING (U)

IDENTIFIERS: CONTROLLED NUCLEAR FUSION, CUSPED

GEOMETRY (U)

PLASMAS IN CUSPED MAGNETIC FIELDS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-451 643

NAVY UNDERWATER SOUND LAB NEW LONDON CONN
UNDERWATER REVERBERATION AS A FACTOR IN ASW
ACOUSTICS,

(U)

SEP 64 115P BARAKOS, PETER A. I

REPT. NO. 620

PROJ: 1 405 00 00

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (=UNDERWATER SOUND, SYMPOSIA),
(=SYMPOSIA, UNDERWATER SOUND), VIBRATION, GREAT
BRITAIN, CANADA, UNITED STATES, BIBLIOGRAPHIES,
ANTISUBMARINE WARFARE, SCATTERING, OCEAN BOTTOM, SONAR
RECEIVERS, PROPAGATION, FREQUENCY (U)

IDENTIFIERS: REVERBERATION (U)

IN SEPTEMBER 1961, EXPERTS ON REVERBERATION FROM
THE UNITED STATES, THE UNITED KINGDOM, AND
CANADA ATTENDED A FOUR-DAY SEMINAR AT THE NAVAL
RESEARCH ESTABLISHMENT IN DARTMOUTH, NOVA
SCOTIA. THIS REPORT PRESENTS A COMPREHENSIVE
REVIEW OF THE DISCUSSIONS AT THE MEETING AND
SUMMARIZES THE CONCLUSIONS AND RECOMMENDATIONS THAT
REPRESENT BASICALLY THE IDEAS AND THOUGHTS OF A GROUP
OF MANY OF THE FOREMOST AUTHORITIES ON REVERBERATION
AND ITS MANY RAMIFICATIONS. THE AUTHOR HAS ADDED
SOME MATERIAL, PRINCIPALLY ON THE STATISTICAL NATURE
AND MECHANISMS OF REVERBERATION. ALSO INCLUDED IS
AN EXTENSIVE BIBLIOGRAPHY DEALING WITH THE SUBJECT OF
REVERBERATION. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-455 161

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

COMPOUND SEMICONDUCTORS. ANNOTATED BIBLIOGRAPHY.

(U)

DESCRIPTIVE NOTE: REPT. NO. 2, 1 JAN-1 JUL 63.

AUG 64 39P

REPT. NO. U 64 90

TASK: 12

UNCLASSIFIED REPORT

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

DESCRIPTORS: (*SEMICONDUCTORS, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, SEMICONDUCTORS), USSR, MATERIALS,
ELECTRICAL PROPERTIES, SEMICONDUCTING FILMS, ANTIMONY
ALLOYS, ARSENIC ALLOYS, CRYSTALS, ELECTRICAL
CONDUCTANCE, LUMINESCENCE, OXIDES, PHOSPHIDES,
SELENIUM ALLOYS, SULFIDES, TELLURIUM ALLOYS

(U)

THIS ANNOTATED BIBLIOGRAPHY IS BASED ON SOVIET
OPEN-SOURCE MATERIAL AVAILABLE AT THE AEROSPACE
TECHNOLOGY DIVISION AND THE LIBRARY OF
CONGRESS, AND COVERS MAINLY THE PERIOD FROM 1
JANUARY TO 1 JULY 1963. IT IS SUPPLEMENTED BY
THREE APPENDICES: (1) A CLASSIFICATION OF
ENTRIES BY KEY WORDS, (2) AN INDEX OF
PERSONALITIES, AND (3) AN INDEX OF FACILITIES.
ITEMS IN THESE THREE APPENDICES ARE KEYED TO ENTRY
NUMBERS. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-455 166

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

ORGANIC SEMICONDUCTORS.

(U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR 1960-1963.

JUL 64 47P

REPT. NO. U64 82

UNCLASSIFIED REPORT

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

DESCRIPTORS: (.SEMICONDUCTORS, ORGANIC COMPOUNDS),
(.BIBLIOGRAPHIES, SEMICONDUCTORS), USSR,
PHthalOCYANINES, CHLOROPHYLLS, POLYMERS, AROMATIC
COMPOUNDS, ALKENES, VINYL PLASTICS, FERROCENES,
PYRIDINES, NITRILES, COMPLEX COMPOUNDS, ORGANIC SULFUR
COMPOUNDS, METALORGANIC COMPOUNDS, QUINONES (U)
IDENTIFIERS: CHELATE COMPOUNDS, ALKYNES (U)

THIS PRELIMINARY BIBLIOGRAPHY IS BASED ON SOVIET
OPEN SOURCE MATERIALS AVAILABLE AT THE AEROSPACE
TECHNOLOGY DIVISION AND THE LIBRARY OF
CONGRESS AND COVERS FIVE SOVIET PERIODICALS FOR
THE PERIOD 1960-1963. THE PERIODICALS, ALONG WITH
AVAILABLE TRANSLATION JOURNALS, ARE LISTED.
LIBRARY OF CONGRESS CALL NUMBERS ARE PROVIDED FOR
BOTH ORIGINAL SOURCES AND THE TRANSLATION JOURNALS.
THESE JOURNALS WERE SELECTED FOR THE PRELIMINARY
REPORT ON THE BASIS OF FREQUENCY OF REFERENCE TO THEM
IN THE MAJOR BOOK FOUND ON THE SUBJECT,
ORGANIC SKIYE POLUPROVODNIKI (ORGANIC
SEMICONDUCTORS), MOSCOW, 1963, EDITED BY THE LATE
ACADEMICIAN A. V. YOPCHIEV. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-456 758

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

COMPOUND SEMICONDUCTORS. ANNOTATED

BIBLIOGRAPHY.

(U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR 1961-1963.

JUN 64 148P

REPT. NO. AID U 64 58

TASK: 12

UNCLASSIFIED REPORT

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

DESCRIPTORS: (SEMICONDUCTORS, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, SEMICONDUCTORS), USSR, CHEMICAL
COMPOUNDS

(U)

THIS ANNOTATED BIBLIOGRAPHY IS BASED ON SOVIET
OPEN SOURCE MATERIAL OF THE PERIOD FROM 1961 TO 1963.
THE BIBLIOGRAPHY IS DIVIDED INTO THREE PARTS:

(1) AIIIBV COMPOUNDS, (2) AIIIBVI
COMPOUNDS, AND (3) AIVBIV COMPOUNDS.

SOURCES ARE GIVEN FOR ENGLISH TRANSLATIONS OR
ABSTRACTS, WHICH ARE AVAILABLE FOR ALL THE PAPERS.
THE ENTRIES ARE ARRANGED ALPHABETICALLY BY AUTHORS.
THEORETICAL AND EXPERIMENTAL MATERIAL AND REVIEW
ARTICLES WERE INCLUDED. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-456 759

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

LUMINESCENCE OF COMPLEX MOLECULES. ANNOTATED
BIBLIOGRAPHY.

(U)

DESCRIPTIVE NOTE: QUARTERLY REPT. NO. 1, JAN-MAR 63.

JUN 64 53P

REPT. NO. 2 U 64 59

TASK: 4

UNCLASSIFIED REPORT

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

DESCRIPTORS: (+LUMINESCENCE, BIBLIOGRAPHIES),

(+BIBLIOGRAPHIES, LUMINESCENCE), ABSTRACTS, USSR

(U)

ANNOTATED BIBLIOGRAPHY OF SOVIETBLOC LITERATURE ON
LUMINESCENCE COMPLEX MOLECULE.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-456 765

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

THEORETICAL PLASMA PHYSICS AND DYNAMICS. ANNOTATED
BIBLIOGRAPHY. (U)

DESCRIPTIVE NOTE; BIBLIOGRAPHY FOR 1958-MAY 64.

AUG 64 215P

REPT. NO. U64 83

TASK: 36A

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (PLASMA PHYSICS, BIBLIOGRAPHIES),
(USSR, PLASMA PHYSICS), THEORY, SHOCK WAVES,
PROPAGATION, KINETIC THEORY, OSCILLATION, STABILITY,
ABSTRACTING (U)

THIS REPORT HAS BEEN PREPARED IN RESPONSE TO ATD
WORK ASSIGNMENT NO. 35, TASK 36A. IT IS A
SURVEY IN THE FORM OF AN ANNOTATED BIBLIOGRAPHY OF
SOVIET LITERATURE ON WAVE PROPAGATION IN PLASMA,
SHOCK WAVES, AND THE KINETIC THEORY OF PLASMA. IT
HAS BEEN COMPILED FROM OPEN LITERATURE ON PLASMA
RESEARCH PUBLISHED IN THE SOVIET UNION AND
SOVIET-BLOC COUNTRIES DURING THE PERIOD 1958 TO
MAY 1964 AND AVAILABLE AT THE LIBRARY OF
CONGRESS AND THE AEROSPACE TECHNOLOGY
DIVISION. THE 452 ENTRIES ARE ARRANGED
CHRONOLOGICALLY IN 6 SECTIONS ACCORDING TO SPECIFIC
PROBLEMS IN ORDER TO PRESENT AN OUTLINE OF THE
PROGRESS OF SOVIET RESEARCH IN THE FIELD. A LIST
OF PERIODICALS EXPLOITED INCLUDING THEIR LIBRARY OF
CONGRESS CALL NUMBERS IS GIVEN AT THE END.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-460 445

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

GROWTH OF SINGLE CRYSTALS.

(U)

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

MAY 64 72P

REPT. NO. ATD-U-64-46

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*CRYSTAL GROWTH, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, SINGLE CRYSTALS), (*SCIENTIFIC
RESEARCH, EASTERN EUROPE), HIGH-PRESSURE RESEARCH (U)

THIS REPORT IS BASED ON SOVIET AND EAST
EUROPEAN OPEN SOURCE MATERIALS AVAILABLE AT THE
AEROSPACE INFORMATION DIVISION AND THE
LIBRARY OF CONGRESS AND COVERS 1962. THE 126
ENTRIES ARE DIVIDED INTO TWO PARTS AND ARRANGED IN
ALPHABETICAL ORDER BY AUTHOR WITHIN EACH PART, IN THE
SAME MANNER AS IN THE FIRST REPORT. ANNOTATIONS
HAVE BEEN PROVIDED IN ALL CASES WHERE ABSTRACTS ARE
NOT AVAILABLE, EXCEPT IN THE CASES WHERE THE ORIGINAL
SOURCES WERE NOT ON HAND. A MODIFIED FORMAT HAS
BEEN SELECTED FOR THIS REPORT IN ORDER TO FACILITATE
ITS USE. CODED TOPIC TAGS AND DESCRIPTORS ARE
ASSIGNED TO EACH ENTRY. THE TOPIC TAGS LOCATED
UNDER SUBJECT INDEX NO. AT THE BOTTOM OF EACH ENTRY
REPRESENT THE BROAD AND THE NARROW CONCEPTS RELEVANT
TO THE SUBJECT OF A PARTICULAR ENTRY, WHILE THE
DESCRIPTORS REFLECT THE CONTENTS OF THE ARTICLE
REPORTED AND ARE NOT NECESSARILY THE SAME AS TOPIC
TAGS. EACH TOPIC TAG IS CODED USING A BINARY SYSTEM
IN WHICH THE BROADER CONCEPT IS REPRESENTED BY A
NUMBER AND THE LIMITING OR NARROW CONCEPT OR SUBCLASS
BY A LETTER. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-461 871

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

PARTICLE-BEAM INTERACTION WITH PLASMA. COMPILATION
OF ABSTRACTS. (U)

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

APR 65 121P

REPT. NO. ATD-P-65-20

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•PARTICLE BEAMS, BIBLIOGRAPHIES),
(•BIBLIOGRAPHIES, PARTICLE BEAMS), USSR, PLASMA
PHYSICS, PLASMA OSCILLATIONS, MAGNETOHYDRODYNAMICS,
EXCITATION, ELECTRON BEAMS, MAGNETIC FIELDS, CHARGED
PARTICLES (U)

PARTICLE-BEAM INTERACTION WITH PLASMA.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-462 245

REDSTONE SCIENTIFIC INFORMATION CENTER REDSTONE ARSENAL
ALA

LASERS,

(U)

APR 64

42P

CARAS, GUS J. I

REPT. NO. RSIC-195

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*LASERS, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, LASERS), REVIEWS, RUBY, MEDICAL
RESEARCH, DETECTION, COMMUNICATION SYSTEMS, GUIDANCE,
MANUFACTURING METHODS, FIBER OPTICS, GALLIUM ALLOYS,
INDIUM ALLOYS, SILICON ALLOYS, ARSENIDES, PHOSPHIDES,
ANTIMONY ALLOYS, CRYOGENICS, PUMPING (ELECTRONICS),
FREQUENCY (U)

IDENTIFIERS: OPTICAL PUMPING, FOUR-LEVEL LASERS, GAS
LASERS, LIQUID LASERS, SEMICONDUCTOR LASERS, SOLID
STATE LASERS (U)

THIS STATE-OF-THE-ART SURVEY CONSISTS OF TWO
SECTIONS, A TECHNICAL SUMMARY AND A BIBLIOGRAPHY.
ALTHOUGH THE BIBLIOGRAPHY, WHICH CONSISTS OF 125
REFERENCES AND COVERS THE PERIOD OF 1 JANUARY 1963
TO 31 DECEMBER 1963 DEALS MOSTLY WITH THE SUBJECT
OF LASER PUMPING, THE SUMMARY REVIEWS OTHER TOPICS OF
LASER TECHNOLOGY INCLUDING A DESCRIPTION OF THE
VARIOUS TYPES OF LASERS AND THEIR POTENTIAL
APPLICATIONS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-462 668

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
NOZZLE EXHAUST GASES + BASE FLOW MIXING
PHENOMENA.

(U)

DESCRIPTIVE NOTE: SPECIAL BIBLIOGRAPHY,
OCT 59 9P CARROLL, K. D. I
REPT. NO. SB-59-8

UNCLASSIFIED REPORT

DISTRIBUTION: MICROFICHE ONLY AFTER ORIGINAL COPIES
EXHAUSTED.

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•JET MIXING FLOW, BIBLIOGRAPHIES),
(•BASE FLOW, BIBLIOGRAPHIES), ROCKET MOTOR NOZZLES,
NOZZLE GAS FLOW, EXHAUST GASES, SUPERSONIC FLOW,
TURBULENCE, VORTICES, TEMPERATURE, PRESSURE, VELOCITY,
HEAT TRANSFER (U)

IDENTIFIERS: BASE TEMPERATURE, BASE PRESSURE (U)

NOZZLE EXHAUST GASES BASE FLOW MIXING PHENOMENA.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-462 680

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
LIGHT, VISIBILITY AND VISION.

(U)

DESCRIPTIVE NOTE: SPECIAL BIBLIOGRAPHY,

JUL 59 20P CARROLL, K. D. I

REPT. NO. SB-59-23

UNCLASSIFIED REPORT

DISTRIBUTION: MICROFICHE ONLY AFTER ORIGINAL COPIES
EXHAUSTED.

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, LIGHT),
(*BIBLIOGRAPHIES, VISIBILITY), (*BIBLIOGRAPHIES,
VISION), (*LIGHT, BIBLIOGRAPHIES), (*VISION,
BIBLIOGRAPHIES), (*VISIBILITY, BIBLIOGRAPHIES),
SCATTERING, MOON, VISUAL PERCEPTION, EYE, COLORS,
CORRELATORS, XENON LAMPS, OPTICS, OPTICAL PROPERTIES,
ATMOSPHERE, SMOKE SCREENS, OPTICAL TRACKING, SOLAR
RADIATION

(U)

IDENTIFIERS: STARLIGHT

(U)

BIBLIOGRAPHY ON LIGHT, VISIBILITY, VISION.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-465 256

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

CHARGE-EXCHANGE COLLISIONS IN GASES. (U)

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

MAY 65 64P

REPT. NO. ATD-P-65-32

TASK: 37

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*GAS IONIZATION, SCIENTIFIC
RESEARCH), (*KINETIC THEORY, SCIENTIFIC
RESEARCH), (*ABSTRACTING, GAS IONIZATION),
GASES, ATOMS, IONS, ELECTRONS, PLASMA
PHYSICS, PLASMA MEDIUM, BIBLIOGRAPHIES,
PERIODICALS, USSR, PROBABILITY, ION BEAMS (U)

THIS REPORT DEALS WITH SOVIET RESEARCH ON
CHARGEEXCHANGE PROCESSES IN GASES COMPILED FROM THE
PERIODICALS ZHURNAL EKSPERIMENTAL'NOY I
TEORETICHESKOY FIZIKI (JOURNAL OF EXPERIMENTAL
AND THEORETICAL PHYSICS) AND ZHURNAL
TEKHNICHESKOY FIZIKI (JOURNAL OF TECHNICAL
PHYSICS) FOR THE PERIOD 1930-1963. THE
ABSTRACTS ARE ARRANGED ALPHABETICALLY. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-465 678

MICHIGAN UNIV ANN ARBOR INST OF SCIENCE AND
TECHNOLOGY

PROPAGATION OF SOUND IN AIR.

(U)

DESCRIPTIVE NOTE: A BIBLIOGRAPHY WITH ABSTRACTS 1929-1963.

JUN 66 632P

WESCOTT, JOHN W. I

KUSHNER, S. STEVEN I

REPT. NO. 2900-185-B

CONTRACT: DA36 039SCB2 654 , DA36 039SC78801

PROJ: 306801001

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SOUND TRANSMISSION,
BIBLIOGRAPHIES), (*BIBLIOGRAPHIES, SOUND
TRANSMISSION), SOUND, PROPAGATION,
ABSTRACTS, INDEXES, THEORY, SHOCK WAVES,
ACOUSTICS, ACOUSTIC PROPERTIES, ABSORPTION,
ACOUSTIC EQUIPMENT, ECHO RANGING,
INSTRUMENTATION, METEOROLOGICAL PARAMETERS,
ATMOSPHERIC PRESSURE, TRANSDUCERS, VELOCITY,
ULTRASONIC RADIATION

(U)

THIS BIBLIOGRAPHY CONTAINS SEVERAL THOUSAND
ABSTRACTS FROM THE UNCLASSIFIED LITERATURE ON THE
PROPAGATION OF SOUND IN AIR. THE SUBJECT IS
TREATED IN DEPTH FOR THE YEARS 1929 TO 1963. SOME
ABSTRACTS ON EARLIER WORKS OF LASTING INTEREST AND
MANY ABSTRACTS FROM ENGLISH TRANSLATIONS OF FOREIGN
JOURNALS ARE INCLUDED. THE ABSTRACTS ARE GROUPED
ACCORDING TO SUBJECT MATTER. SUBJECT AND AUTHOR
INDEXES ARE FURNISHED. ACCESSIONS DOCUMENT (AD
AND EARLIER AT) NUMBERS USED BY BOTH THE DEFENSE
DOCUMENTATION CENTER (FORMERLY ASTIA) AND THE
OFFICE OF TECHNICAL SERVICES (OTS) ARE
FURNISHED WHEREVER POSSIBLE. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-466 193

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

MIXING OF CONCENTRIC HIGH-VELOCITY AIRSTREAMS. (U)

DESCRIPTIVE NOTE; COMPILATION OF ABSTRACTS, JAN-OCT
64.

JUL 65 49P

REPT. NO. ATD-P-65-41

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (1)JET MIXING FLOW,
BIBLIOGRAPHIES), (1)BIBLIOGRAPHIES, JET MIXING
FLOW), NOZZLE GAS FLOW, INCOMPRESSIBLE FLOW,
BOUNDARY LAYER, STABILIZATION, JET FLAMES,
METHANE, AIR, STAGNATION POINT, PENETRATION,
JETS, SUPERSONIC FLOW (U)

IDENTIFIERS: PRANDTL THEORY, CONCENTRIC
STRUCTURES (U)

THIS REPORT IS THE FOURTH IN A SERIES DEALING WITH
PUBLISHED SOVIET RESEARCH ON THE SUBJECT OF MIXING
OF CONCENTRIC HIGH-VELOCITY AIRSTREAMS. IT
COMPRISES ABSTRACTS SELECTED FROM SOVIET OPEN
LITERATURE AVAILABLE AT THE AEROSPACE TECHNOLOGY
DIVISION AND THE LIBRARY OF CONGRESS AND COVERS
THE PERIOD FROM JANUARY 1964 THROUGH OCTOBER
1964. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-467 519

NATIONAL BUREAU OF STANDARDS BOULDER COLO
A BIBLIOGRAPHY OF REFERENCES FOR THE THERMOPHYSICAL
PROPERTIES OF HELIUM-4, HYDROGEN, DEUTERIUM, HYDROGEN
DEUTERIDE, NEON, ARGON, NITROGEN, OXYGEN, CARBON
DIOXIDE, METHANE, ETHANE, KRYPTON, AND REFRIGERANTS
13, 14, AND 23. (U)

MAY 65 139P

REPT. NO. NBS-8808

PROJ: 31502 40 3150121 ,31502 40 3150626

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•PHYSICAL PROPERTIES,
BIBLIOGRAPHIES), (•GASES, PHYSICAL PROPERTIES),
(•THERMAL PROPERTIES, GASES), HEAT OF FUSION,
CRYOGENICS, HELIUM, HYDROGEN, ATOMIC
STRUCTURE, DEUTERIUM, NEON, ARGON, NITROGEN,
OXYGEN, CARBON DIOXIDE, METHANE, KRYPTON,
REFRIGERANTS, HYDROCARBONS, HEAT OF
SUBLIMATION, ALIPHATIC COMPOUNDS, DENSITY,
COMPRESSIVE PROPERTIES, THERMAL EXPANSION, VAPOR
PRESSURE, TEMPERATURE, BOILING, MELTING, PHASE
STUDIES, ENTHALPY, ENTROPY, THERMAL
CONDUCTIVITY, VISCOSITY, SURFACE TENSION (U)
IDENTIFIERS: PARA AND ORTHO HYDROGEN, ETHANE (U)

THIS BIBLIOGRAPHY REPRESENTS A SEARCH OF THE
INFORMATION STORAGE AND RETRIEVAL SYSTEM OF THE
CRYOGENIC DATA CENTER. THE STORAGE AND
RETRIEVAL SYSTEM CONTAINS APPROXIMATELY 11,000
REFERENCES TO PROPERTIES OF MATERIALS AT CRYOGENIC
TEMPERATURES. THE BIBLIOGRAPHY CONTAINS REFERENCES
TO THE FOLLOWING FLUIDS AND THEIR MIXTURES: HELIUM-4,
NORMAL HYDROGEN, PARAHYDROGEN, ORTHOHYDROGEN,
DEUTERIUM AND HYDROGEN DEUTERIDE, NEON, ARGON,
NITROGEN, OXYGEN, CARBON DIOXIDE, METHANE, ETHANE,
KRYPTON, AND REFRIGERANTS 13, 14, AND 23. THE
PROPERTIES WHICH WERE SEARCHED FOR ARE: PVT DATA,
COMPRESSIBILITY, EXPANSIVITY, VAPOR PRESSURE, MELTING
LINE, TRIPLE POINT, BOILING POINT, CRITICAL POINT,
SOLID TRANSITION POINTS, PHASE DIAGRAM, LATENT HEATS,
HEAT CAPACITY, ENTHALPY, ENTROPY, VELOCITY OF SOUND,
THERMAL CONDUCTIVITY, VISCOSITY, EQUATIONS OF STATE,
JOULE-THOMSON COEFFICIENT, AND SURFACE TENSION.
THE CRYOGENIC DATA CENTER IS ENGAGED IN
MAINTAINING AN AWARENESS OF THE WORLD'S LITERATURE ON
THE PROPERTIES OF MATERIALS AT CRYOGENIC TEMPERATURES
AND IN PARTICULAR ON THE PROPERTIES OF THE CRYOGENIC
FLUIDS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-486 798 20/11 1/3
OHIO STATE UNIV RESEARCH FOUNDATION COLUMBUS DEPT OF
AERONAUTICAL AND ASTRONAUTICAL ENGINEERING
DEVELOPMENT OF EXPERIMENTAL TESTING PROGRAMS TO
VERIFY THERMAL STRESS ANALYSIS. (U)
DESCRIPTIVE NOTE: FINAL REPT. 15 JUN 65-15 MAY 66,
JUN 66 110P GATEWOOD, B. E. IGLASER, A.
R. IULRICH, B. H. JR.
CONTRACT: AF 33(615)-2314
PROJ: AF-1467
TASK: 146702
MONITOR: AFFDL TR-66-67

UNCLASSIFIED REPORT

DESCRIPTORS: (THERMAL STRESSES, TEST METHODS),
MATHEMATICAL ANALYSIS, RELIABILITY, EXPERIMENTAL
DATA, BEAMS(STRUCTURAL), STRUCTURES,
STRUCTURAL SHELLS, TEST EQUIPMENT, TEMPERATURE,
STRAIN(MECHANICS), DEFLECTION,
BUCKLING(MECHANICS), BIBLIOGRAPHIES,
REPORTS, TABLES, STATE-OF-THE-ART REVIEWS,
CYLINDRICAL BODIES, STIFFENED CYLINDERS, METAL
PLATES, STRUCTURAL PROPERTIES, AIRFRAMES,
JOINTS (U)

THIS REPORT CONTAINS A BIBLIOGRAPHICAL LIST FOR
TEST DATA ON THERMAL STRESS TESTING, AND EVALUATION
OF THE REPORTS IN THE LIST IN A SET OF TABLES, AND A
LIST OF PROPOSED EXPERIMENTAL TESTS TO VERIFY CERTAIN
THEORETICAL METHOD OF THERMAL STRESS ANALYSIS. SIX
OF THE PROPOSED TEST PROGRAMS, BEAM TEST FIXTURE WITH
CIRCULAR PLATE TEST, PLATE BENDING TEST FIXTURE
REDUNDANT TRUSS TEST, CURVED BEAM TEST, AND A JOINT
TEST WITH MIXED MATERIALS, ARE DESCRIBED IN DETAIL.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-600 095

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
OPTICAL IMAGE CONVERTERS: AN ANNOTATED BIBLIOGRAPHY,
1961-1963, (U)

JAN 64 24P GOLDMANN, JACK B. I
REPT. NO. 13 64 1 ,SB64 B

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*OPTICAL EQUIPMENT, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, OPTICAL EQUIPMENT), OPTICAL IMAGES,
IMAGE TUBES, IMAGE INTENSIFIERS (ELECTRONICS),
ABSTRACTING, INDEXES (U)

A LITERATURE SEARCH WAS MADE TO DETERMINE THE
VARIETY OF TECHNIQUES WHICH HAVE BEEN UTILIZED IN THE
DEVELOPMENT OF THE OPTICAL IMAGE CONVERTER. THIS
ANNOTATED BIBLIOGRAPHY OF 45 REFERENCES EMPHASIZES
THE ADVANCES AND INNOVATIONS FOR THE YEARS 1961-1963.
THE RESOURCES OF THE LOCKHEED MISSILES AND
SPACE COMPANY TECHNICAL INFORMATION CENTER
WERE USED IN THE PREPARATION OF THIS BIBLIOGRAPHY.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-600 405

CALIFORNIA UNIV LOS ANGELES

AN AEROSONICS BIBLIOGRAPHY. (U)

DESCRIPTIVE NOTE: SUPPLEMENT NO. 1

APR 64 23P POWELL, ALAN SMITH, T. J. B.

1
REPT. NO. DE64 20

CONTRACT: NONR233 62

PROJ: NR062 229

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BIBLIOGRAPHIES, AERODYNAMIC
CHARACTERISTICS), (AERODYNAMIC CHARACTERISTICS,
BIBLIOGRAPHIES), FLUID FLOW, FLUID MECHANICS,
AEROSTATICS, SUPERSONIC FLOW (U)

THIS SUPPLEMENTARY BIBLIOGRAPHY CONTAINS AVAILABLE
REFERENCES TO THE OPEN LITERATURE ON AEROSONICS UP TO
MARCH 1964 WHICH IS NOT INCLUDED IN THE MAIN
VOLUME. THE SCOPE OF THE BIBLIOGRAPHY HAS BEEN
ENLARGED TO INCLUDE REFERENCES TO THE FLUID DYNAMICS
OF SUPERSONIC JET FLOWS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-600 720

AEROSPACE CORP EL SEGUNDO CALIF

PROFESSIONAL PAPERS CLEARED FOR POSSIBLE PUBLICATION
AND/OR PRESENTATION. (U)

DESCRIPTIVE NOTE: REPT. FOR 16 APR-15 MAY 64,

MAY 64 6P BRADY, FRANCES A. I

CONTRACT: AFD4 695 269

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•FLUID MECHANICS), (•REPORTS,
BIBLIOGRAPHIES), (•BIBLIOGRAPHIES, SCIENTIFIC
RESEARCH), PHYSICS, MATERIALS (U)

BIBLIOGRAPHY OF PROFESSIONAL PAPERS CLEARED FOR POSSIBLE
PUBLICATION AND/OR PRESENTATION FROM AEROSPACE
CORPORATION.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-601 306

PREVENTION OF DETERIORATION CENTER NAS-NRC WASHINGTON D

C

OPTICAL SYSTEMS MICROBIOLOGY: MONOGRAPHIC
ELEMENTS.

(U)

DESCRIPTIVE NOTE: ORIGINAL BIBLIOGRAPHY.

JUN 62 41P LEE, RICHARD W. H. I

HEPT. NO. 562 032REV. 1 ,PDL 48991

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*OPTICAL EQUIPMENT, DEGRADATION),
(*OPTICAL EQUIPMENT, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, OPTICAL EQUIPMENT),
(*MICROORGANISMS, DEGRADATION), OPTICAL MATERIALS,
FUNGUS DETERIORATION, BACTERIA, ABSTRACTS

(U)

AN ANNOTATED BIBLIOGRAPHY OF 38 ITEMS CONCERNING
THE OCCURRENCE AND EFFECTS OF MICROORGANISMS ON
OPTICAL EQUIPMENT. A SUBJECT INDEX IS INCLUDED.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-601 690

HARVARD UNIV CAMBRIDGE MASS

STRUCTURES OF BIOLOGICALLY ACTIVE MOLECULES. (U)

DESCRIPTIVE NOTE: FINAL REPT., 1 DEC 59-30 NOV 63

NOV 63 6P LIPSCOMB, WILLIAM N. I

CONTRACT: AF49 638 809

MONITOR: AFOSR 64 1110

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MOLECULAR STRUCTURE, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, BIOCHEMISTRY), CRYSTAL STRUCTURE,
STEREOCHEMISTRY, X-RAY DIFFRACTION ANALYSIS, BORON
COMPOUNDS, ORGANIC COMPOUNDS, ALKALOIDS (U)

A BIBLIOGRAPHY OF 10 REFERENCES IS GIVEN ON THE
MOLECULAR AND CRYSTAL STRUCTURE OF SOME BIOLOGICALLY
ACTIVE MOLECULES. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-601 730

CORNELL UNIV ITHACA N Y GRADUATE SCHOOL OF AEROSPACE
ENGINEERING

FINAL REPORT (AEROSPACE ENGINEERING; GAS
DYNAMICS).

(U)

DESCRIPTIVE NOTE; REPT. FOR 1 MAY 62-30 APR 64.

JUN 64 3P SEARS, W. R. I

CONTRACT: AF AFOSR62 201

MONITOR: AFOSR 64 1138

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (MAGNETOHYDRODYNAMICS, GAS FLOW),
(SUPERAERODYNAMICS, GAS FLOW), GASES, HIGH-
TEMPERATURE RESEARCH, PLASMA PHYSICS, FLUID FLOW,
CHEMICAL REACTIONS, REVIEWS, BIBLIOGRAPHIES

(U)

SUMMARIES ARE GIVEN OF RESEARCHES IN THE FOLLOWING
FIELDS: MAGNETO-DYNAMICS OF HIGH-TEMPERATURE GASES;
GASDYNAMICS OF REAL AND CHEMICALLY REACTING GASES;
AND DYNAMICS OF RAREFIED GASES. A BIBLIOGRAPHY IS
GIVEN OF THE 18 PUBLICATIONS GENERATED UNDER THIS
GRANT.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-601 830

MASSACHUSETTS INST OF TECH LEXINGTON LINCOLN LAB
SOLID STATE RESEARCH,

(U)

JUN 64 75P

CONTRACT: AF19 620 500

MONITOR: ESD TDR64 48

UNCLASSIFIED REPORT

PLEMENTARY NOTE:

DESCRIPTORS: (SOLID STATE PHYSICS, SCIENTIFIC
RESEARCH), SEMICONDUCTOR DEVICES, LASERS, MATERIALS,
CRYSTALLOGRAPHY, SOLIDS, BAND SPECTRUM, SPECTROSCOPY,
MAGNETISM, RESONANCE, BIBLIOGRAPHIES (U)

A SURVEY OF SOLID STATE RESEARCH IS PRESENTED.
MAJOR AREAS COVERED ARE SOLID STATE DEVICES,
LASERS, MATERIALS, BAND STRUCTURE AND SPECTROSCOPY OF
SOLIDS, AND MAGNETISM AND RESONANCE. A
BIBLIOGRAPHY OF REPORTS BY AUTHORS ENGAGED IN SOLID
STATE RESEARCH IS ALSO PRESENTED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-601 884

INDIANA UNIV BLOOMINGTON

FINAL REPORT NUCLEAR SPECTROSCOPY .

(U)

DESCRIPTIVE NOTE: REPT. FOR 1 APR 55-31 MAR 64,

MAR 64 12P

CONTRACT: NONR1706 01 ,N60R148 01

PROJ: NRO24 006

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•NUCLEAR SPECTROSCOPY, BIBLIOGRAPHIES),
(•BIBLIOGRAPHIES, NUCLEAR SPECTROSCOPY), (•DECAY
SCHEMES), (•RADIOACTIVE DECAY), NUCLEAR FORCES,
NUCLEAR PROPERTIES, ATOMIC STRUCTURE, RADIOACTIVE
ISOTOPES, NUCLEAR REACTIONS, CYCLOTRONS, BETA-RAY
SPECTROSCOPY, GAMMA-RAY SPECTROSCOPY, BETA-RAY
SPECTRUM, PARTICLE ACCELERATION TECHNIQUES, SCIENTIFIC
PERSONNEL, TRAINING, CORRELATION TECHNIQUES, ATOMIC
ENERGY LEVELS (U)

INFORMATION ABOUT THE STRUCTURE OF THE NUCLEI OF
ATOMS AND THE NATURE OF BASIC NUCLEAR FORCES IS
RECORDED IN A SERIES OF REPORTS COVERING THE PERIOD 1
MARCH 1946 TO 31 MARCH 1956. MEASUREMENTS WERE
CARRIED OUT ON VARIOUS PHENOMENA ASSOCIATED WITH
RADIOACTIVE DECAY OF ISOTOPES PRODUCED EITHER BY
BOMBARDMENT IN THE CYCLOTRON OR IN A NUCLEAR REACTOR.
THE INVESTIGATIONS INVOLVED: (1) THE
DETERMINATION OF DECAY SCHEMES AND ENERGY LEVEL
ASSIGNMENTS; (2) STUDIES OF THE DETAILED SHAPES
OF BETA SPECTRA IN BOTH ALLOWED AND FORBIDDEN
TRANSITIONS; AND (3) BETA-GAMMA ANGULAR
CORRELATION MEASUREMENTS. A LIST OF 63 PUBLICATIONS
SUPPORTING THE RESULTS OF THESE INVESTIGATIONS IS
INCLUDED IN THE FINAL REPORT TOGETHER WITH THE NAMES
AND THESIS TITLES OF GRADUATE SCIENTIFIC PERSONNEL
ASSOCIATED WITH THE EXPERIMENTS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-603 139

POLYTECHNIC INST OF BROOKLYN N Y

AN ANNOTATED BIBLIOGRAPHY ON ABLATION AN RELATED TOPICS.

(U)

MAY 64 165P

ISRAEL, MARTIN H. INARDO, S.

V. 1

REPT. NO. 686

CONTRACT: NONR839 23

PROJ: NRO64 433

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*ABLATION, BIBLIOGRAPHIES), (*BIBLIOGRAPHIES, ABLATION), HEAT TRANSFER, LAMINAR BOUNDARY LAYER, HIGH-TEMPERATURE RESEARCH, COOLING, MELTING, SUBLIMATION, VAPORIZATION, HEAT SHIELDS, ATMOSPHERE ENTRY, HEAT-RESISTANT MATERIALS, PLASTICS, METALS, HYPERSONIC FLOW, HEAT-RESISTANT PLASTICS, MATERIALS, POLYMERS, GRAPHITE, REENTRY VEHICLES, CERAMIC MATERIALS, ORGANIC MATERIALS, POROUS MATERIALS, COATINGS, REFRACTORY MATERIALS, QUARTZ, LAMINATED PLASTICS, GLASS TEXTILES, COMPOSITE MATERIALS, RUBBER, THERMAL INSULATION, SATELLITES (ARTIFICIAL)

(U)

THE BIBLIOGRAPHY CONTAINS 700 ENTRIES (551 ANNOTATED, 133 UNANNOTATED, AND 16 CLASSIFIED REFERENCES), LISTING RESEARCH PERTINENT TO THERMAL ENVIRONMENTS AND THE THERMAL PROTECTION OF STRUCTURES, PRIMARILY BY ABLATIVE TECHNIQUES. TOPICS INCLUDED DEAL WITH HIGH TEMPERATURE ENVIRONMENT, RE-ENTRY DYNAMICS AND THERMODYNAMICS, COOLING METHODS, ABLATION COOLING, AND MATERIALS FOR HIGH TEMPERATURE APPLICATION.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-603 359

NAVAL ORDNANCE LAB CORONA CALIF
MAGNETORESISTANCE IN METALS, SEMICONDUCTORS, AND
ALLOYS: A BIBLIOGRAPHY ON THEORETICAL AND
EXPERIMENTAL ASPECTS, (U)

JUL 64 100P LEONARD, L. E. I
MONITOR: NAVWEPS 8191

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, RESISTANCE
(ELECTRICAL)), (*METALS, BIBLIOGRAPHIES),
(*SEMICONDUCTORS, BIBLIOGRAPHIES), (*ALLOYS,
BIBLIOGRAPHIES), SUBJECT INDEXING, MAGNETIC FIELDS,
HALL EFFECT, SINGLE CRYSTALS (U)
IDENTIFIERS: MAGNETORESISTIVE EFFECT (U)

THE COMPREHENSIVE BIBLIOGRAPHY COVERS THEORETICAL
AND EXPERIMENTAL WORK ON THE MAGNETORESISTANCE IN
METALS, SEMICONDUCTORS, AND ALLOYS OVER THE PERIOD
1930-1963. IN THE SUBJECT INDEX WHICH PRECEDES
THE MAIN BIBLIOGRAPHY, THE LISTINGS ARE BRIEF BUT
SUFFICIENT TO ENABLE THE READER TO FIND THE COMPLETE
ENTRIES IN THE BIBLIOGRAPHY SECTION. BECAUSE THE
NAME OF ONLY ONE AUTHOR IS GIVEN FOR EACH ENTRY, THE
SEQUENCE IS NOT STRICTLY ALPHABETICAL; FOR CONVENIENT
REFERENCE, IT PARALLELS THE SEQUENCE IN THE
BIBLIOGRAPHY PROPER. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-603 51*

MASSACHUSETTS INST OF TECH LEXINGTON LINCOLN LAB
DIVISION 6. SOLID STATE.

(U)

DESCRIPTIVE NOTE: QUARTERLY PROGRESS REPT. FOR 1 APR-30
JUN 64.

JUL 64 18P

CONTRACT: AF19 628 500

MONITOR: ESD 1 TDR64 349

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, SOLID STATE PHYSICS),
(*SOLID STATE PHYSICS, REPORTS), LASERS, SEMICONDUCTOR
DEVICES, SEMICONDUCTORS, CRYSTALS, OSCILLATION,
SPECTROSCOPY, MAGNETIC PROPERTIES, MAGNETIC FIELDS,
ELECTRONS, MAGNETIC RESONANCE (U)

RESEARCHES IN THE FOLLOWING FIELDS ARE SUMMARIZED:
SOLID STATE DEVICE RESEARCH; LASER RESEARCH;
MATERIALS RESEARCH; BAND STRUCTURE AND SPECTROSCOPY
OF SOLIDS; MAGNETISM AND RESONANCE. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-605 984

TRW SPACE TECHNOLOGY LABS LOS ANGELES CALIF
LOW PRESSURE ELECTRICAL DISCHARGE STUDIES, (U)

DEC 59 72P KREBS, W. H. FREED, A. C. I

REPT. NO. STL/TR-59-0000-09931

CONTRACT: AF04 647 309

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ELECTRIC DISCHARGES, HIGH ALTITUDE),
(GUIDED MISSILE COMPONENTS, MALFUNCTIONS), AIR, WATER
VAPOR, SPARKS, SECONDARY EMISSION, ELECTRICAL
EQUIPMENT, LOW-PRESSURE RESEARCH, ELECTRODES,
ELECTRICAL PROPERTIES, GEOMETRIC FORMS, ENCAPSULATION,
CASTING, REVIEWS, BIBLIOGRAPHIES (U)
IDENTIFIERS: BREAKDOWN (ELECTRICAL) (U)

THE REPORT CONCERNS ELECTRICAL BREAKDOWN OF AIR AT
LOW PRESSURES OR HIGH ALTITUDES (70,000 TO 250,000
FEET) DUE TO SECONDARY EMISSION. INFORMATION
PERTINENT TO THE PROBLEM OF LOW FREQUENCY (0 TO
1000 CPS) SPARKING WAS COMPILED THROUGH A
LITERATURE SURVEY. A BIBLIOGRAPHY CONCERNING
ELECTRICAL BREAKDOWN AT BOTH LOW AND HIGH FREQUENCIES
WAS COMPILED. A TEST PROGRAM YIELDED THE FOLLOWING
RESULTS: NO STATISTICALLY SIGNIFICANT DEVIATION
FROM PASCHEN'S LAW WAS DETECTED. THE ADDITION
OF WATER VAPOR TO THE AIR CONSTITUTING THE TEST
ENVIRONMENT CAUSED A SIGNIFICANT LOWERING OF THE
MINIMUM SPARKING VOLTAGE. RECOMMENDATIONS ARE MADE
RELATIVE TO TEST PROGRAMS FOR MISSILE ELECTRICAL
COMPONENTS EMPLOYING VOLTAGES HIGHER THAN 200 VOLTS.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-607 180

MASSACHUSETTS INST OF TECH CAMBRIDGE

AN INDEX TO THE TWO-PHASE GAS-LIQUID FLOW LITERATURE.

PART II.

(U)

SEP 64 318P

GOUSE, S. WILLIAM, JR.:

REPT. NO. DSR-8734-4

CONTRACT: NONR1841 73

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-411 512.

DESCRIPTORS: (*BIBLIOGRAPHIES, FLUID FLOW), (*FLUID
FLOW, BIBLIOGRAPHIES), REVIEWS, INDEXES, FLUID
MECHANICS, GAS FLOW, LIQUIDS

(U)

IDENTIFIERS: TWO-PHASE FLOW

(U)

A TOTAL OF 1800 SEPARATE REFERENCES ON CERTAIN
TYPES OF TWO-PHASE GAS-LIQUID FLOW PHENOMENA HAVE
BEEN FOUND, VERIFIED, LISTED, AND INDEXED BY SUBJECT
AND PRINCIPLE AUTHOR. THIS LITERATURE SURVEY WAS
CARRIED OUT AS ONE PHASE OF A CONTINUING PROGRAM TO
DETERMINE THE STATE OF THE ART IN TWO-PHASE GAS-
LIQUID FLOW PHENOMENA. IT IS EXPECTED THAT THIS
PROGRAM WILL CONTINUE WITH THE PUBLICATION OF
ADDITIONAL CRITICAL REVIEWS AND EVALUATIONS OF
VARIOUS PROBLEM AREAS IN TWO-PHASE FLOW AS WELL AS
WITH THE PUBLICATION OF PART III OF THE INDEX.
THE PROBLEM AREAS OF CONDENSATION, CAVITATION, AND
AUTOMIZATION HAVE BEEN GENERALLY EXCLUDED EXCEPT
THROUGH ERROR OR WHEN REFERENCES WERE OF SUCH A BASIC
CHARACTER AS TO BE GENERALLY USEFUL. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-607 420

YALE UNIV NEW HAVEN CONN

(LISTS OF PROGRESS REPORTS, PUBLICATIONS, AND MEN WHO
RECEIVED PH.D. DEGREES) (U)

DESCRIPTIVE NOTE; FINAL REPT. FOR 15 JUN 64-15 FEB 64.

OCT 64

7P

MARGENAU, HENRY I

CONTRACT: NONR609 22

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (PLASMA PHYSICS, BIBLIOGRAPHIES),
REPORTS, SCIENTIFIC PERSONNEL, ELECTRONICS (U)

(LISTS OF PROGRESS REPORTS, PUBLICATIONS, AND MEN WHO
RECEIVED PH.D. DEGREES)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-607 633

TRW SPACE TECHNOLOGY LABS LOS ANGELES CALIF
A BIBLIOGRAPHY FOR THE RESTRICTED THREEBODY
PROBLEM,

(U)

AUG 88 26P DUREN, PETER L. I
REPT. NO. STL/GM-TN-0165-00172

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (N-BODY PROBLEM, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, N-BODY PROBLEM), CELESTIAL
MECHANICS, LUNAR TRAJECTORIES, ORBITAL TRAJECTORIES,
EQUATIONS, MOTION, SERIES (U)

THE 78 REFERENCES IN THIS BIBLIOGRAPHY ARE ARRANGED
CHRONOLOGICALLY WITHIN EACH OF THREE HEADINGS:
EXPOSITORY, ANALYTICAL AND NUMERICAL. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-607 668

ARMY NUCLEAR DEFENSE LAB EDGEWOOD ARSENAL MD
A LISTING OF CINDA, AN INDEX TO THE LITERATURE ON
MICROSCOPIC NEUTRON DATA, (U)

JUL 64 790P GOLDSTEIN, HERBERT I

KALOS, MALVIN H. I

TASK: A2 11 029

MONITOR: DASA ,NDL

15351 ,SP10

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTES: PREPARED IN COOPERATION WITH
COLUMBIA UNIV., NEW YORK; COURANT INST. OF
MATHEMATICAL SCIENCES, NEW YORK UNIV., N. Y.;
AND UNITED NUCLEAR CORP., WHITE PLAINS, N. Y.
PART OF THE WORK WAS SUPPORTED BY CONTRACT AT 30 1
GEN72.

DESCRIPTORS: (*NEUTRON CROSS SECTIONS, INDEXES),
(*DATA PROCESSING SYSTEMS, NEUTRON CROSS SECTIONS),
NEUTRONS, COMPUTERS, BIBLIOGRAPHIES, DATA, ISOTOPES,
CHEMICAL ELEMENTS, NUCLEAR CROSS SECTIONS (U)

CINDA (COMPUTER INDEX NEUTRON DATA) IS A
BIBLIOGRAPHICAL INDEX OF INFORMATION CONCERNING
MICROSCOPIC NEUTRON CROSS SECTIONS AND ALLIED DATA
FOR SPECIFIC ELEMENTS AND ISOTOPES. IT COVERS THE
LITERATURE, BOTH PUBLISHED AND UNPUBLISHED, SINCE THE
BEGINNING OF 1956. WHILE THE REFERENCES COVERED
MOSTLY REPORT ON MEASUREMENTS, CINDA ALSO INCLUDES
THEORETICAL CALCULATIONS, CROSS SECTION EVALUATIONS
AND COMPILATION INSOFAR AS THEY REFER TO SPECIFIC
TARGET NUCLEI. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-607 815

TRW SPACE TECHNOLOGY LABS LOS ANGELES CALIF
A COLLECTION OF INFORMATION ON SHOCK SPECTRUM OF A
LINEAR SYSTEM, (U)

JUL 61 56P BARTON, H. V. ICHOBOTOV, V. I

FUNG, Y. C. I

REPT. NO. STL/ZH-11-9

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTES:

DESCRIPTORS: (*SHOCK (MECHANICS), LINEAR SYSTEMS),
MECHANICAL WAVES, LOADING (MECHANICS), GRAPHICS,
BIBLIOGRAPHIES (U)

THIS IS A COLLECTION OF DEFINITIONS AND CHARTS OF
THE RESPONSE SPECTRA FOR A ONE-DEGREE-OF-FREEDOM
LINEAR SYSTEM SUBJECTED TO SHOCK LOADING.
AVAILABLE NUMERICAL RESULTS ARE COLLECTED TOGETHER
AND ILLUSTRATED GRAPHICALLY. ANALYTICAL RESULTS ARE
NOT REPRODUCED, BUT REFERENCES TO CONVENIENT SOURCES
ARE GIVEN. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-608 695

YALE UNIV NEW HAVEN CONN

FINAL REPORT. PARTICLE PHYSICS, BIBLIOGRAPHY OF
PUBLICATIONS.

(U)

61 11P

BREIT, GREGORY I

CONTRACT: NONR1338 00

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*NUCLEAR PHYSICS, BIBLIOGRAPHIES),
(*BIBLIOGRAPHIES, NUCLEAR PHYSICS), NUCLEAR
SCATTERING, NUCLEAR PARTICLES, LINEAR ACCELERATORS,
ISOTOPES, X-RAY SPECTRUM, POLARIZATION, ELECTRON
CAPTURE, NUCLEONS, PROTONS, EXCITATION, NUCLEAR
REACTIONS

(U)

FINAL REPORT. PARTICLE PHYSICS, BIBLIOGRAPHY OF
PUBLICATIONS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-609 136

FOREIGN TECHNOLOGY DIV WRIGHT-PATTERSON AFB OHIO
BIBLIOGRAPHY OF PUBLICATIONS ON THE SUBJECT OF HEAT
AND MASS EXCHANGE, (U)

NOV 64 21P DOLINSKAYA, R. A. 1
MONITOR: FTD ,TT TT64 3951 ,65 60431

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: UNEDITED ROUGH DRAFT TRANS. OF
INZHENERNO-FIZICHESKII ZHURNAL (USSR) 1963, V. 6,
NO. 12, P. 127-134. LEGIBILITY OF THIS DOCUMENT IS IN PART
UNSATISFACTORY. REPRODUCTION HAS BEEN MADE FROM BEST
AVAILABLE COPY.

DESCRIPTORS: (•TRANSPORT PROPERTIES, BIBLIOGRAPHIES),
(•HEAT TRANSFER, BIBLIOGRAPHIES), (•BIBLIOGRAPHIES,
TRANSPORT PROPERTIES), MATHEMATICAL ANALYSIS,
THERMODYNAMICS, PHASE STUDIES, HIGH-TEMPERATURE
RESEARCH, MAGNETOHYDRODYNAMICS, DESIGN, THERMAL
CONDUCTIVITY, DRIERS (APPARATUS), NUCLEAR REACTORS,
USSR (U)
IDENTIFIERS: MASS TRANSFER (U)

CONTENTS: MATHEMATICAL ANALYTIC METHODS;
THERMODYNAMICS; EXPERIMENTAL METHODS; PROCESSES
WITH PHASE CONVERSION, CHEMICAL CONVERSION, AND SUPER
HIGH SPEEDS; DRYING PROCESSES; THERMOPHYSICAL AND
THERMODYNAMIC CHARACTERISTICS OF VARIOUS MATERIALS,
HEAT CONDUCTORS AND METHODS OF DETERMINING THEM;
PHYSICS OF HIGH TEMPERATURE PROCESSES AND MAGNETIC
HYDRODYNAMICS; PROCESSES IN NUCLEAR REACTORS;
DESIGN PROCESSES AND APPARATUS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-610 079

UPPSALA UNIV (SWEDEN)

QUANTUM THEORY OF MANY-PARTICLE SYSTEMS.

(U)

DESCRIPTIVE NOTE: ANNUAL SUMMARY REPT. FOR 1 SEP 63-31
AUG 64.

AUG 64 8P

CONTRACT: AF61 052 701

MONITOR: ARL , 65 25

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-429 228.

DESCRIPTORS: (QUANTUM MECHANICS, ELEMENTARY
PARTICLES), (ELEMENTARY PARTICLES, QUANTUM
MECHANICS), N-BODY PROBLEM, CHEMISTRY, MOLECULAR
PROPERTIES, MOLECULAR STRUCTURE, SOLID STATE PHYSICS,
ATOMIC ENERGY LEVELS, ATOMIC STRUCTURE, ATOMS,
MOLECULES, PROTONS, ELECTRONS, THEORY, SPIN, VALENCE,
PERTURBATION THEORY, MATRIX ALGEBRA, OPERATORS
(MATHEMATICS), CRYSTAL LATTICES, HARMONIC OSCILLATORS,
ATOMIC ORBITALS, SYMPOSIA, SWEDEN, BIBLIOGRAPHIES (U)

A CHRONOLOGICAL LIST IS PRESENTED OF THE
CONFERENCES, RESEARCH REPORTS, AND PUBLISHED PAPERS
OF THE QUANTUM CHEMISTRY GROUP FOR RESEARCH IN
ATOMIC, MOLECULAR, AND SOLID-STATE THEORY AT
UPPSALA UNIVERSITY, UPPSALA, SWEDEN.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-612 912

DOUGLAS AIRCRAFT CO INC SANTA MONICA CALIF
ELECTRON FRACTOGRAPHY HANDBOOK. (U)
DESCRIPTIVE NOTE: FINAL REPT. FOR 10 MAY 63-31 JAN 66.

JAN 66 910P WHITESON, B. V. I PHILLIPS, A.
IKERLINS, V. I
CONTRACT: AF33 657 11127
PROJ: 7381
TASK: 738103
MONITOR: ML, TR-64-416

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: AVAILABLE COPY WILL NOT PERMIT FULLY
LEGIBLE REPRODUCTION. REPRODUCTION WILL BE MADE IF
REQUESTED BY USERS OF DDC. A COPY IS AVAILABLE FOR PUBLIC
SALE.

DESCRIPTORS: (1) FRACTOGRAPHY, HANDBOOKS), (2) ELECTRON
MICROSCOPY, FRACTOGRAPHY), FRACTURE (MECHANICS),
FATIGUE (MECHANICS), ENVIRONMENTAL TESTS, EXPERIMENTAL
DATA, TEST METHODS, METALS, ALUMINUM ALLOYS, STEEL,
TITANIUM ALLOYS, NICKEL ALLOYS, MAGNESIUM ALLOYS,
BERYLLIUM ALLOYS, MOLYBDENUM ALLOYS, NIOBIUM ALLOYS,
TANTALUM ALLOYS, TUNGSTEN ALLOYS, BIBLIOGRAPHIES,
MICROSTRUCTURE (U)

THE HANDBOOK IS DIVIDED INTO FIVE SECTIONS.
THESE ARE: (1) TECHNIQUES - A DETAILED
DESCRIPTION OF THE MOST COMMONLY USED REPLICATION
TECHNIQUES, FRACTURE ANALYSIS TECHNIQUES, AND A GUIDE
TO DISTINGUISH FALSE OR 'ARTIFACT' STRUCTURE. (2)
FRACTURE MODES - A GUIDE TO THE VARIOUS MODES OF
FRACTURE (OR FRACTURE MORPHOLOGY), THEIR
APPEARANCE IN THE ELECTRON MICROSCOPE, AND A GLOSSARY
OF TERMS COMMONLY USED IN ELECTRON FRACTOGRAPHY.
(3) ENVIRONMENTAL EFFECTS A REVIEW OF THE ROLE
OF ENVIRONMENTAL INFLUENCE ON THE FRACTURE
APPEARANCE. (4) ATLAS OF ELECTRON FRACTOGRAPHS
A DETAILED COMPILATION OF OVER 300 SPECIMENS FAILED
UNDER KNOWN CONDITIONS, WITH THE RELATED
FRACTOGRAPHS. A GENERAL INDEX AS WELL AS A
COMPLETE CROSS-REFERENCING INDEX IS ALSO INCLUDED TO
PROVIDE EASY ACCESS TO INFORMATION RELATED TO
SPECIFIC ALLOY, STRENGTH LEVEL, TYPE OF TEST AND/OR
ENVIRONMENT AND TEST TEMPERATURE. (5)
BIBLIOGRAPHY - A BIBLIOGRAPHY OF OPEN LITERATURE
RELATED TO THE FIELD OF ELECTRON FRACTOGRAPHY. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-612 962

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
OPTICAL AND INFRARED ABSORPTANCE AND EMISSION
PROPERTIES OF SOLID H₂O, CO₂, N₂, AND O₂: AN
ANNOTATED BIBLIOGRAPHY, 1958-1962.

(U)

NOV 62 9P BUGINAS, SCOTT J. I

REPT. NO. 5-10-62-53 ,SB-62-59

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•CRYOGENICS, OPTICAL PHENOMENA),
(•INFRARED RADIATION, SOLID STATE PHYSICS),
(•LUMINESCENCE, SOLID STATE PHYSICS),
(•BIBLIOGRAPHIES, OPTICAL PHENOMENA), (•SPECTROSCOPY,
OPTICAL PHENOMENA), CRYSTALS, ICE, SOLIDIFIED GASES,
NITROGEN, OXYGEN, CARBON COMPOUNDS, GASES, XENON,
ARGON, METHANE, AMMONIA, OPTICAL EQUIPMENT (U)
IDENTIFIERS: OPTICAL FREQUENCIES (U)

OPTICAL AND INFRARED ABSORPTANCE AND EMISSION PROPERTIES
OF SOLID H₂O, CO₂, N₂, AND O₂: AN ANNOTATED
BIBLIOGRAPHY, 1958-1962.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-614 429

NAVAL WEAPONS LAB DANLIGREN VA
SOME RECENT DEVELOPMENTS IN THE THEORY OF VISCOUS
FLUID FLOW WITH TECHNOLOGICAL AND GEOPHYSICAL
APPLICATIONS,

(U)

APR 68 70P SCHWIDERSKI, ERNST W. I

LUGT, HANS J. I

REPT. NO. NWL-1963

TASK: R360FR103 2101RC110101

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•FLUID FLOW, MATHEMATICAL ANALYSIS),
(•PARTIAL DIFFERENTIAL EQUATIONS, FLUID MECHANICS),
(•NUMERICAL METHODS AND PROCEDURES, FLUID MECHANICS),
VISCOSITY, INCOMPRESSIBLE FLOW, BOUNDARY LAYER,
STAGNATION, WAKE, VORTICES, INTEGRATION, INTEGRAL
EQUATIONS, BIBLIOGRAPHIES, GEOPHYSICS

(U)

THREE GENERAL MATHEMATICAL TECHNIQUES, WHICH HAVE
RECENTLY BEEN INTRODUCED BY THE AUTHORS FOR
SYSTEMATIC SOLUTION OF THE NAVIER-STOKES
EQUATIONS OF INCOMPRESSIBLE VISCOUS FLUID FLOW, ARE
BRIEFLY REVIEWED. IN PARTICULAR, THE APPLICATIONS
OF THESE METHODS TO VARIOUS FUNDAMENTAL FLOW PROBLEMS
OF THEORETICAL AND TECHNOLOGICAL INTEREST ARE
HIGHLIGHTED AND ANALYZED WITH RESPECT TO THE MAJOR
PHYSICAL FEATURES OF REALISTIC SMALL-SCALE AND
LARGESCALE FLUID MOTIONS. A COMPLETE BIBLIOGRAPHY
OF ALL ORIGINAL PAPERS PUBLISHED OR IN PUBLICATION,
WHICH CONTAIN ALL DETAILED DERIVATIONS AND RESULTS,
IS GIVEN AT THE END OF THIS REPORT. (AUTHOR)

(U)

UNCLASSIFIED

DOC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-614 594

CALIFORNIA UNIV LOS ANGELES DEPT OF ENGINEERING
AN AEROSONICS BIBLIOGRAPHY. (U)

DESCRIPTIVE NOTE: SUPPLEMENT NO. 2,

APR 65 27P POWELL, ALAN ISLOMON, LOUIS :

REPT. NO. 65-3

CONTRACT: NONR23362

PROJ: RR009 01 01 ,NR062 229

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUPPLEMENT TO ENGINEERING REPTS.
NO. 63-51, AD-425 670, AND NO. 64-20, AD-600 455.

DESCRIPTORS: (*AERODYNAMIC CHARACTERISTICS,
BIBLIOGRAPHIES), ACOUSTICS, SUPERSONIC FLOW, JETS,
FLUID MECHANICS, INDEXES, SONIC BOOM, SHOCK WAVES,
SONIC FATIGUE, VORTICES, BOUNDARY LAYER, TURBULENCE,
NOISE, HYDRODYNAMICS, STRUCTURES, PROPELLERS (AERIAL) (U)
IDENTIFIERS: AEROSONICS (U)

A BIBLIOGRAPHY OF 363 REFERENCES IS GIVEN ON THE
FOLLOWING TOPICS: AERODYNAMIC SOUND; STRUCTURAL
EXCITATION BY FLOWS AND SOUND, FATIGUE; FLOW PAST
BODIES, BOUNDARY LAYER; FLUID INSTABILITY, ACOUSTIC
STREAMING, VORTICAL FLOW; JET FLOWS AND WAKES,
TURBULENCE; JET NOISE SUPPRESSION DEVICES; PROPELLERS
AND ROTORS; ROCKET NOISE; RESONANCE AND OSCILLATION;
SONIC BOOM AND SHOCK WAVES; SOUND PROPAGATION,
SCATTERING, TRANSMISSION ATTENUATION AND REFLECTION;
STRUCTURAL AND WAVE DYNAMICS; THERMOACOUSTICS;
HYDRODYNAMICS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-615 177

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

SOVIET LASER BIBLIOGRAPHY: ANALYTICAL SURVEY. (U)

MAY 65 59P

REPT. NO. ATD-P-65-23

MONITOR: TT , 65-62200

UNCLASSIFIED REPORT

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

DESCRIPTORS: (LASERS, BIBLIOGRAPHIES), PARAMAGNETIC
MATERIALS, GASES, SEMICONDUCTOR DEVICES, SPECTROSCOPY,
X-RAYS, OPTICS, QUANTUM MECHANICS, USSR,
REVIEWS (U)

THE BIBLIOGRAPHY ON SOVIET LASER RESEARCH COVERS
THE PERIOD FROM JANUARY 1961 TO SEPTEMBER 1964.
THE FOLLOWING TOPICS ARE DISCUSSED: GASEOUS
LASERS, LASERS BASED ON PARAMAGNETIC MATERIALS,
LASERS BASED ON SEMICONDUCTOR MATERIALS, EXOTIC
LASERS, SPECTROSCOPY OF PARAMAGNETIC LASER MATERIALS,
LASER THEORY, AND LASER APPLICATIONS AND EFFECTS.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-617 913

AUTONETICS DOWNEY CALIF

OCCUPATIONAL LASER HAZARDS- A SURVEY OF THE
LITERATURE, (U)

DESCRIPTIVE NOTE: REPT. FOR 1956-1965,

JUL 65 23P KINNEY, MARNELLE I

REPT. NO. T5-1245/3111

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: AVAILABLE COPY WILL NOT PERMIT FULLY
LEGIBLE REPRODUCTION. REPRODUCTION WILL BE MADE IF
REQUESTED BY USERS OF DDC. COPY IS AVAILABLE FOR PUBLIC
SALE.

DESCRIPTORS: (LASERS, HAZARDS),
(BIBLIOGRAPHIES, LASERS), SAFETY DEVICES, EYE,
VISION, RETINA, EYE GLASSES, PROTECTIVE
CLOTHING, SKIN, BURNS, TISSUES(BIOLOGY),
PATHOLOGY, OPHTHALMOLOGY, PHYSIOLOGY,
INDUSTRIAL MEDICINE, INDEXES, ABSTRACTING,
REVIEWS (U)

THE NEED FOR GUIDELINES TO PROTECT PERSONNEL
INVOLVED IN LASER RESEARCH IS GENERALLY RECOGNIZED.
THE LITERATURE REVEALS, HOWEVER, THAT VIEWS DIFFER
AS TO WHAT PRECAUTIONS SHOULD BE REQUIRED. THIS
BIBLIOGRAPHY CONTAINS 48 ENTRIES ARRANGED
ALPHABETICALLY BY AUTHOR, AND INCLUDES PAPERS
PUBLISHED IN THE OPEN LITERATURE AND REPORTS WHICH
MAY BE OBTAINED THROUGH THE DEFENSE DOCUMENTATION
CENTER. THE PERIOD OF TIME COVERED IS FROM 1956
THROUGH MAY 1965. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-618 067

CHICAGO UNIV ILL ENRICO FERMI INST FOR NUCLEAR
STUDIES

HIGH ENERGY PHYSICS RESEARCH USING A 460 MEV
SYNCHROCYCLOTRON. (U)

DESCRIPTIVE NOTE; FINAL REPT.,

JUL 65 15P ANDERSON, HERBERT L. I

CONTRACT: N60P102022

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (NUCLEAR PHYSICS,
SYNCHROCYCLOTRONS), (BIBLIOGRAPHIES, NUCLEAR
PHYSICS), ELEMENTARY PARTICLES, PIONS, MUONS,
MESON BOMBARDMENT, PROTON BEAMS, NEUTRON BEAMS,
RADIOCHEMISTRY (U)

DOCTORAL DISSERTATIONS ARE LISTED FOR STUDENTS WHO
CONDUCTED THEIR RESEARCH WITH THE CYCLOTRON. ALSO
GIVEN IS A CHRONOLOGICAL LIST OF PUBLISHED RESEARCH. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-618 503

MASSACHUSETTS INST OF TECH LEXINGTON LINCOLN LAB
AC BREAKDOWN IN GASES.

(U)

DESCRIPTIVE NOTE: TECHNICAL REPT.,

FEB 65 30P HUEHE, C. E. I

REPT. NO. TR-380

CONTRACT: AF19 628 500

MONITOR: ESD, TDR-65-53

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*GAS DISCHARGES, HELIUM GROUP
GASES), (*GAS IONIZATION, HELIUM GROUP GASES),
(*HELIUM GROUP GASES, GAS DISCHARGES), VOLTAGE,
ELECTRONS, SECONDARY EMISSION, ALTERNATING
CURRENT, PLASMA PHYSICS, BIBLIOGRAPHIES,
IONIZATION POTENTIALS

(U)

THE BREAKDOWN POTENTIAL OF HELIUM, NEON, ARGON AND
XENON WAS MEASURED OVER THE FREQUENCY RANGE FROM DC
TO 1000 MCPS, AND THE PRESSURE RANGE FROM 10 TO THE
MINUS 8TH POWER TO 600 MMHG EMPLOYING A GLASS
BREAKDOWN CELL WITH 1-CM SPACING. GRAPHS SHOWING
CONTOURS OF CONSTANT BREAKDOWN POTENTIAL AS A
FUNCTION OF PD AND D/GAMMA ARE PRESENTED. THESE
GRAPHS SHOW THREE DISTINCT BREAKDOWN REGIONS:
(1) THE DIFFUSION-CONTROLLED REGION, (2) THE
SECONDARY-ELECTRON-EMISSION (MULTIPACTOR) REGION,
AND (3) THE LOW-FREQUENCY REGION. THE
BREAKDOWN MECHANISM IN EACH OF THESE REGIONS IS
EXPLAINED. AN EXTENSIVE BIBLIOGRAPHY ON AC
BREAKDOWN IN GASES IS INCLUDED. (AUTHOR)

(U)

UNCLASSIFIED

ODC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-619 027

AEROSPACE RESEARCH LABS WRIGHT-PATTERSON AFB OHIO

A BIBLIOGRAPHY ON MOVING STRIATIONS,

(U)

JUN 68 33P PALMER, RICHARD E. I

GARSCADDEN, ALAN I

REPT. NO. ARL-68-120

PROJ: 7073

TASK: 707303

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*GAS DISCHARGES, BIBLIOGRAPHIES),
(*PLASMA MEDIUM, BIBLIOGRAPHIES), LOW-PRESSURE
RESEARCH, REVIEWS

(U)

IDENTIFIERS: PLASMA STRIATIONS

(U)

A BRIEF SUMMARY OF PRESENT RESEARCH AND A
BIBLIOGRAPHY CONCERNING MOVING STRIATIONS IN LOW
PRESSURE (APPROX. 1 TORR) GASEOUS DISCHARGES IS
PRESENTED. CHRONOLOGICAL ORDER HIGHLIGHTS THE MORE
RECENT WORK IN THE FIELD OF MOVING STRIATIONS BY
PEKAREK AND WOJACZEK. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-620 727

MASSACHUSETTS INST OF TECH LEXINGTON LINCOLN LAB
MILLIMETER WAVE RESEARCH: PAST, PRESENT, AND
FUTURE.

(U)

DESCRIPTIVE NOTE: TECHNICAL REPT.,
MAY 65 27P MEYER, J. W. I
REPT. NO. TR-389
CONTRACT: AF19 628 500
MONITOR: ESD , TDR-65-72

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (MILLIMETER WAVES, SCIENTIFIC
RESEARCH), BIBLIOGRAPHIES, REVIEWS,
COMMUNICATION SYSTEMS, RADAR EQUIPMENT, RADIO
ASTRONOMY, SOLID STATE PHYSICS, ELECTROMAGNETIC
WAVES, PROPAGATION, SPECTRUM ANALYZERS

(U)

THIS REPORT IS THE EDITED TRANSCRIPT OF A SEMINAR
GIVEN AT LINCOLN LABORATORY ON 2 MARCH 1965.
THE CYCLICITY OF INTEREST IN MILLIMETER WAVE
RESEARCH IS TRACED FROM THE TIME OF HERTZ, WHEN
INVESTIGATIONS OF THIS PART OF THE ELECTROMAGNETIC
SPECTRUM BEGAN. THE WAXING AND WANING OF
MILLIMETER WAVE RESEARCH ARE TRACED AS EXCITING NEW
FIELDS ARE DISCOVERED WHICH DIVERTED THE INTEREST OF
PHYSICISTS. EACH RE-EMERGENCE OF MILLIMETER WAVE
RESEARCH HAS BEEN MORE ROBUST, OFTEN BECAUSE THE
RESULTS OF THE DIVERSIONS WERE IMPORTANT TO IMPROVED
TECHNIQUES. EARLY MILLIMETER WAVE APPARATUS IS
DESCRIBED. THE NARRATIVE OF THE DEVELOPMENT OF A
MILLIMETER WAVE RADAR FOR THE DETECTION OF THE MOON
RELATES THE OPENING OF THIS SPECTRAL REGION TO RADAR
ASTRONOMY. OTHER APPLICATIONS ARE MENTIONED, ALONG
WITH FUTURE POSSIBILITIES. A CHRONOLOGY, A LIST OF
LARGE MILLIMETER WAVE ANTENNAS, AND A BIBLIOGRAPHY OF
REVIEW PAPERS ARE INCLUDED. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-622 090

MASSACHUSETTS INST OF TECH CAMBRIDGE LAB FOR INSULATION
RESEARCH

MATERIALS RESEARCH.

(U)

DESCRIPTIVE NOTE; FINAL REPT.,

NOV 68 67P VON HIPPEL, A. I

REPT. NO. TR-204

CONTRACT: NONR184110

PROJ: NR018 801

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (SOLID STATE PHYSICS),
(BIBLIOGRAPHIES, MATERIALS), (MATERIALS,
REPORTS), (SCIENTIFIC RESEARCH, MATERIALS),
ELECTRICAL PROPERTIES, DIELECTRICS,
SPECTROSCOPY, CRYSTALS, CRYSTAL STRUCTURE,
SEMICONDUCTORS, FERROELECTRIC MATERIALS,
MAGNETIC MATERIALS, CERAMIC MATERIALS,
INSTRUMENTATION, ELECTRIC INSULATION

(U)

A BIBLIOGRAPHY OF MATERIAL RESEARCH REPORTS BY THE
LABORATORY FOR INSULATION RESEARCH IS
PRESENTED.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-622 225

NAVAL RESEARCH LAB WASHINGTON D C

A BIBLIOGRAPHY OF CERTAIN OPTICAL PROPERTIES OF
LIQUID WATER IN THE INFRARED REGION (1-2000
MICRONS),

(U)

AUG 65 18P DAVIS, P. W. I

REPT. NO. NRL B1B-25

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (WATER, OPTICAL PROPERTIES),
(INFRARED SPECTROSCOPY, WATER), BIBLIOGRAPHIES,
LIQUIDS, ABSORPTION SPECTRUM, REFLECTION,
REFRACTIVE INDEX, SALINITY, SEA WATER

(U)

A SELECTIVE BIBLIOGRAPHY WAS COMPILED OF REFERENCES
PERTAINING TO THE ABSORPTION SPECTRA, REFLECTANCE
SPECTRA AND OPTICAL CONSTANTS OF LIQUID WATER IN THE
INFRARED FROM 1 MICRON TO 2000 MICRONS.
REPRESENTATIVE CURVES ARE PRESENTED FOR ABSORPTION,
REFLECTANCE AND INDEX OF REFRACTION. THERE IS A
SERIOUS DEFICIENCY IN THE SCIENTIFIC LITERATURE ON
THE INFRARED OPTICAL PROPERTIES OF SEA WATER.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-623 246

AEROSPACE INFORMATION DIV LIBRARY OF CONGRESS WASHINGTON D
C

ULTRASONIC ATTENUATION STUDIES OF IRRADIATED
MATERIALS: ANNOTATED BIBLIOGRAPHY. (U)

DESCRIPTIVE NOTE: AID WORK ASSIGNMENT NO. 43, TASK 25.

APR 64 11P

REPT. NO. AID-U-64-28

MONITOR: TT , 65-64457

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET OPEN LITERATURE
AVAILABLE AT THE AEROSPACE INFORMATION DIV., LIBRARY
OF CONGRESS.

DESCRIPTORS: (BIBLIOGRAPHIES, ULTRASONIC
RADIATION), (ULTRASONIC RADIATION, ATTENUATION),
ABSTRACTING, USSR, ABSORPTION, GASES, CRYSTALS,
PARAMAGNETIC MATERIALS, MAGNETIC RESONANCE,
METALS, ELECTROLYTES, SEMICONDUCTORS, MAGNETIC
PROPERTIES (U)

ULTRASONIC ATTENUATION STUDIES OF IRRADIATED MATERIALS:
ANNOTATED BIBLIOGRAPHY.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-624 439 20/6 6/4
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
OPTICAL DETECTION; COMPILATION OF ABSTRACTS. (U)
DESCRIPTIVE NOTE; REPT. NO. 2 ON ATD WORK ASSIGNMENT NO.
79.
DEC 65 15P PINDY, FREDERICK I
REPT. NO. ATD-65-84
MONITOR: TT, 65-64725

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: CONSISTS OF ABSTRACTS OF ARTICLES
PUBLISHED IN THE SOVIET LITERATURE DURING JUNE 1964 AND
EARLY 1965. REPT. ON SURVEYS OF SOVIET SCIENTIFIC
AND TECHNICAL LITERATURE.

DESCRIPTORS: (OPTICAL SCANNING, BIBLIOGRAPHIES),
(IMAGES, VISUAL PERCEPTION), (VISUAL
PERCEPTION, IMAGES), OPTICS, EYE, VISION,
BIONICS, PATTERN RECOGNITION, INFORMATION
THEORY, USSR (U)

CONTENTS: IMAGE PERCEPTION AND SCANNING,
INFORMATIONAL CONTENT OF IMAGES, IMAGE
IMPROVEMENT. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-625 075 20/2 7/3
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
STRUCTURE OF ORGANIC CRYSTALS. (U)
DESCRIPTIVE NOTE: BIBLIOGRAPHY,
DEC 65 41P KOURILO, JOHN I
REPT. NO. ATD-65-77 ,1
MONITOR: TT , 65-64858

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPT. ON SURVEYS OF SOVIET
SCIENTIFIC AND TECHNICAL LITERATURE, COVERING OPEN
LITERATURE SOURCES IN 1963.

DESCRIPTORS: (•ORGANIC COMPOUNDS, CRYSTAL
STRUCTURE), (•CRYSTAL STRUCTURE,
BIBLIOGRAPHIES), USSR (U)

THE BIBLIOGRAPHY OF 109 ENTRIES IS ARRANGED BY THE
FOLLOWING SECTIONS: GENERAL REVIEWS, HYDROCARBONS,
HALOGENATED HYDROCARBONS, ALCOHOLS, ESTERS, KETONES
AND QUINONES, AMINES AND AMINO ACIDS, AMIDES AND
IMIDES, AZO COMPOUNDS, OXONIUM COMPOUNDS,
HETEROCYCLIC COMPOUNDS, ORGANOMETALLIC COMPOUNDS,
POLYMERS. CORPORATE AUTHOR, PERSONAL AUTHOR, AND
SUBJECT INDEXES ARE INCLUDED. (U)

1

AD-625 846 20/6 7/4
ARMY MISSILE COMMAND REDSTONE ARSENAL ALA ADVANCED
SYSTEMS LAB
A BIBLIOGRAPHY ON MICROWAVE (ROTATIONAL)
SPECTROSCOPY, (U)
AUG 65 106P WOLLRAB, JAMES E. :
REPT. NO. RD-TM-65-14

SUPPLEMENTARY NOTE:

DESCRIPTORS: (MICROWAVE SPECTROSCOPY, BIBLIOGRAPHIES), INSTRUMENTATION, LINE SPECTRUM, CHEMICAL BONDS, MOLECULAR STRUCTURE, QUADRUPOLE MOMENTS, STEREOCHEMISTRY, ELECTRONIC PROPERTIES, MAGNETIC PROPERTIES (U)

THE REFERENCES LISTED IN THE BIBLIOGRAPHY INCLUDE A MAJORITY OF THE IMPORTANT PAPERS AND BOOKS THAT ARE RELATED TO THE DEVELOPMENT OF MICROWAVE SPECTROSCOPY. GENERAL REFERENCES RELATING TO THE BASIC CONCEPTS OF ROTATIONAL AND, IN A LIMITED WAY, VIBRATIONAL SPECTROSCOPY ARE ALSO INCLUDED. THE REFERENCES HAVE BEEN PLACED UNDER SPECIFIC TOPIC HEADINGS WHENEVER POSSIBLE. A CHRONOLOGICAL ORDER UNDER THESE HEADINGS IS MAINTAINED. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-626 597 20/2 7/3
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
STRUCTURE OF ORGANIC CRYSTALS: ANNOTATED
BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE; REPT. NO. 2 ON ATD WORK ASSIGNMENT NO.
79, TASK 29,
DEC 65 20P SEEMANN, VICTOR I
REPT. NO. ATD-65-104
MONITOR: TT, 66-60263

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BIBLIOGRAPHY BASED ON SOVIET OPEN-
SOURCE MATERIALS FOR 1964. APPENDICES 1 AND 2 ARE INDICES
OF AUTHORS AND ASSOCIATIONS RESPECTIVELY. REPT. ON
SURVEYS OF SOVIET SCIENTIFIC AND TECHNICAL
LITERATURE.

DESCRIPTORS: (ORGANIC COMPOUNDS, CRYSTAL
STRUCTURE), (CRYSTAL STRUCTURE,
BIBLIOGRAPHIES), USSR (U)

THE ANNOTATED BIBLIOGRAPHY WAS COMPILED FROM
SOVIET OPEN SOURCES PUBLISHED IN 1964. IT IS THE
SECOND IN A SERIES AND ENTRIES ARE ARRANGED
ALPHABETICALLY BY AUTHOR. ARTICLES DEALING WITH
ELECTRON MICROSCOPY WERE NOT INCLUDED. 83 ENTRIES
CONTAIN BRIEF ANNOTATIONS INDICATING THE METHOD OF
INVESTIGATION, EQUIPMENT USED, ETC. MATERIALS
INVESTIGATED INCLUDE: DINITRONAPHTHALENE,
QUASIAROMATIC COPPER COMPLEXES, ALPHA-PINENE
MOLECULES, POLYACRYLONITRILE,
DIACIDODIETHYLENEDIAMINE COMPOUNDS, VISCOSE CORD
FIBER, PEPSIN, LIQUID CRYSTALS, ROCHELLE SALT,
POLYTRIFLUOROCHLOROETHYLENE, L-PHENYLALANINE
HYDROCHLORIDE, BIFERROCENYL STRUCTURE,
POLYBENZIMIDAZOLES, PENTAERYTHRITOL, DINITROALKANES,
DIURENES, DIGUANIDINES, CELLULOSE NITRATES,
DICYANDIAMIDE, CELLULOSE ETHERS, POLYPROPYLENE
SPHERULITES, FERROCENEDISULFONYL CHLORIDE, STEARATES
OF CO(III) AND NI(III), AND DIPHENYLMERCURY.
THERE ARE TWO APPENDICES: 1. AUTHOR INDEX,
AND 2. ASSOCIATION INDEX. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-626 615 2U/3
JOHNS HOPKINS UNIV SILVER SPRING MD APPLIED PHYSICS
LAB
BIBLIOGRAPHY ON THERMOELECTRICITY, (U)
NOV 58 25P GOLDMAN, S. I
REPT. NO. TG-324
CONTRACT: NORD-7386
MONITOR: TT, 66-60265

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (THERMOELECTRICITY,
BIBLIOGRAPHIES), (BIBLIOGRAPHIES,
THERMOELECTRICITY), SEMICONDUCTORS, REPORTS,
USSR, GREAT BRITAIN, FRANCE, SWITZERLAND,
NETHERLANDS (U)

BIBLIOGRAPHY ON THERMOELECTRICITY.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-627 167 20/12
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
COMPOUND SEMICONDUCTORS: ANALYTICAL SURVEY. (U)
DESCRIPTIVE NOTE: REPT. NO. 1 ON ATD WORK ASSIGNMENT NO.
79, TASK 3D.
DEC 68 73P
REPT. NO. ATD-68-99
MONITOR: TT , 66-60385

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET-BLOC OPEN SOURCE
MATERIAL FOR THE PERIOD 1 JUL-31 DEC 63, AND ALSO
MATERIAL FOR 1 JAN-30 JUN 63 WHICH WAS NOT INCLUDED IN
REPT. 2 OF AID WORK ASSIGNMENT NO. 41, TASK NO. 12.

DESCRIPTORS: (*SEMICONDUCTORS, REVIEWS),
BIBLIOGRAPHIES, SCIENTIFIC ORGANIZATIONS, USSR (U)

THE ANALYTICAL SURVEY IS BASED ON SOVIET-
SATELLITE OPEN SOURCES PUBLISHED 1963-1964. IT
IS THE FIRST REPORT IN THIS SERIES AND IT CONSISTS OF
A FORWARD, AN ANALYSIS OF DATA FOR THE ENTIRE
YEAR 1963, AND AN ANNOTATED BIBLIOGRAPHY WITH 139
ENTRIES. SECTION 1 OF THE BIBLIOGRAPHY (A11BV
COMPOUNDS) IS COMPRISED OF 46 ENTRIES, SECTION 2
(A11BV1 COMPOUNDS) OF 70 ENTRIES, AND SECTION 3
(A1VB1V COMPOUNDS) OF 3 ENTRIES. THERE ARE 3
APPENDIXES: (1) TOPIC TAGS INDEX (2)
AUTHOR INDEX (3) ASSOCIATIONS INDEX. THE
FOLLOWING COMPOUNDS ARE COVERED: INDIUM PHOSPHIDE,
INDIUM ANTIMONIDE, GALLIUM ANTIMONIDE, GALLIUM
ARSENIDE, GALLIUM PHOSPHIDE, ALUMINUM NITRIDE,
CADMIUM TELLURIDE, GALLIUM NITRIDE, INDIUM NITRIDE,
BORON PHOSPHIDE, CADMIUM SELENIDE, CADMIUM SULFIDE,
MERCURY SULFIDE, ZINC SULFIDE, ZINC TELLURIDE,
MERCURY TELLURIDE, AND SILICON CARBIDE. ACCORDING
TO THE ANALYST THE FOLLOWING TRENDS HAVE BECOME
APPARENT: (1) THE NUMBER OF STUDIES MADE BY
NONCENTRALLY LOCATED SCIENTIFIC INSTITUTIONS HAS
INCREASED AT THE EXPENSE OF THE CENTRAL INSTITUTES;
(2) A CERTAIN SPECIALIZATION OF RESEARCH
INSTITUTIONS IS APPARENT; (3) NEW FACILITIES ARE
BEING DEVELOPED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-627 901 20/9
GRADUATE AERONAUTICAL LABS CALIF INST OF TECH
PASADENA
BIBLIOGRAPHY ON MHD CHANNEL FLOW. (U)
DESCRIPTIVE NOTE: FINAL REPT., PT. 3.
65 18P HARSTAD, K. I
CONTRACT: AF49(638)-1348
PROJ: AF-4661
TASK: 4661246
MONITOR: AFOSR , 65-2019

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*MAGNETOHYDRODYNAMICS,
BIBLIOGRAPHIES), FLUID FLOW, MAGNETIC FIELDS,
MAGNETOHYDRODYNAMIC GENERATORS (U)

A BIBLIOGRAPHY OF ONE HUNDRED AND SEVENTY
REFERENCES IS PRESENTED ON MAGNETOHYDRODYNAMIC
CHANNEL FLOW. THE REFERENCES ARE ARRANGED
ALPHABETICALLY BY AUTHOR, GENERALLY WITH BRIEF
ANNOTATIONS. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-628 200 20/14 4/2 17/9 20/5

LINCOLN LAB MASS INST OF TECH LEXINGTON
SCATTERING AND ATTENUATION BY PRECIPITATION
PARTICLES.

(U)

AUG 65 72P BOUDREAU, CAROL A. I

STONE, MELVIN L. I

REPT. NO. REF BIBLIOGRAPHY-26

CONTRACT: AF 19(628)-5167,

PROJ: AF-649L

MONITOR: ESD , TDR-65-598

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*RADAR SIGNALS, SCATTERING),
(*LASERS, SCATTERING), (*ATMOSPHERIC
PRECIPITATION, INTERFERENCE), (*METEOROLOGICAL
RADAR, BIBLIOGRAPHIES), RADAR INTERFERENCE,
OPTICAL PHENOMENA, ATTENUATION, MICROWAVES,
PROPAGATION, CLOUDS, FOG, THERMAL RADIATION,
DIELECTRICS, PARTICLES

(U)

THIS BIBLIOGRAPHY IS OFFERED TO ENCOURAGE THE
FURTHER APPLICATION OF RADAR METEOROLOGICAL
TECHNIQUES AND DATA IN CONNECTION WITH THE STUDY OF
THE EFFECTS OF HYDROMETEORS, PRECIPITATION, CLOUDS
AND FOG ON MICROWAVE PROPAGATION. IT COMBINES
MATERIAL DEVELOPED IN REGARD TO WEATHER RADAR
RESEARCH WITH THE MORE CONVENTIONAL WORKS ON
ATTENUATION. IN ADDITION TO THE WEATHER RADAR
MATERIAL, THE BIBLIOGRAPHY INCLUDES REFERENCES ON
THERMAL RADIATION FROM PRECIPITATION, CLOUD PHYSICS,
AND DIELECTRIC AND SCATTERING PROPERTIES OF
HYDROMETEORS. SOME OF THE REFERENCES ARE PERTINENT
TO THE STUDY OF PROPAGATION AT OPTICAL WAVELENGTHS
AND ARE USEFUL IN EVALUATING THE PERFORMANCE OF LASER
COMMUNICATIONS SYSTEMS. THE 494 REFERENCES
INCLUDED ARE FROM THE LITERATURE PUBLISHED BETWEEN
JANUARY 1950 AND OCTOBER 1964.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-630 295 20/4
MASSACHUSETTS INST OF TECH CAMBRIDGE ENGINEERING PROJECTS
LAB
AN INDEX TO THE TWO-PHASE GAS-LIQUID FLOW LITERATURE.
PART III, (U)
JAN 66 262P GOUSE, S. WILLIAM, JR. I
REPT. NO. DSR-8734-6,
CONTRACT: NONR-184.173),

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-607 180.

DESCRIPTORS: (TWO-PHASE FLOW, BIBLIOGRAPHIES),
STATE-OF-THE-ART REVIEWS, GAS FLOW, FLUID FLOW,
INDEXES (U)

A TOTAL OF 1,453 SEPARATE REFERENCES ON CERTAIN
TYPES OF TWO-PHASE GAS-LIQUID FLOW PHENOMENA WERE
FOUND, VERIFIED, LISTED, AND INDEXED BY SUBJECT AND
PRINCIPAL AUTHOR. THIS LITERATURE SURVEY WAS
CARRIED OUT AS ONE PHASE OF A CONTINUING PROGRAM TO
DETERMINE THE STATE OF THE ART IN TWO-PHASE GAS-
LIQUID FLOW PHENOMENA. THIS IS THE TERMINAL REPORT
OF A PROGRAM THAT HAS SEEN THE PUBLICATION OF TWO
PRIOR INDICES, TOTALING 5,235 REFERENCES ON TWO-PHASE
GAS-LIQUID FLOW. THE PROBLEM AREAS OF
CONDENSATION, CAVITATION, AND ATOMIZATION HAVE BEEN
GENERALLY EXCLUDED, EXCEPT THROUGH ERROR OR WHEN
REFERENCES WERE OF SUCH A BASIC CHARACTER AS TO BE
GENERALLY USEFUL. A FREQUENCY OF CITATION ANALYSIS
WAS CARRIED OUT TO DETERMINE WHICH OF THE 5,235
REFERENCES HAVE BEEN MOST FREQUENTLY CITED.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-630 602 20/8

AIR FORCE INST OF TECH WRIGHT-PATTERSON AFB OHIO
THE MEASUREMENTS OF E/M, AN ANNOTATED
BIBLIOGRAPHY.

(U)

DESCRIPTIVE NOTE: TECHNICAL REPT.,

MAY 60 B3P VINCZE, TIBOR I

REPT. NO. TR-60-3.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (ELECTRONS, PHYSICAL PROPERTIES),
BIBLIOGRAPHIES, ELECTROSTATICS, MEASUREMENT,
REVIEWS, ELECTRON BEAMS

(U)

IDENTIFIERS: MASS

(U)

A HISTORICAL REVIEW IS PRESENTED OF LITERATURE FROM
1897 TO 1957.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-632 594 20/4
MASSACHUSETTS INST OF TECH CAMBRIDGE ENGINEERING PROJECTS
LAB
DETERMINATION OF THE STATE OF THE ART IN TWO-PHASE
GAS-LIQUID FLOW PHENOMENON. (U)
DESCRIPTIVE NOTE: FINAL REPT., 1 FEB 61-31 DEC 65,
APR 66 6P GOUSE, S. W., JR. I
CONTRACT: NONR-1841(73),
PROJ: DSR-8734,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•TWO-PHASE FLOW, STATE-OF-THE-ART
REVIEWS), (•GAS FLOW, TWO-PHASE FLOW),
(•LIQUIDS, TWO-PHASE FLOW), RESEARCH PROGRAM
ADMINISTRATION, BIBLIOGRAPHIES (U)

THE PURPOSE OF THE PROGRAM WAS TO CONDUCT AN
EXTENSIVE AND DETAILED STUDY OF THE LITERATURE ON
TWO-PHASE GAS-LIQUID FLOW PHENOMENA AND TO COMPILE
THE RESULTS OF SUCH A STUDY IN A USEFUL FORM. A
THREE-PART BIBLIOGRAPHY AND SUBJECT INDEX TO THE
LITERATURE WERE PUBLISHED LISTING AND INDEXING BY
SUBJECT 5,253 SEPARATE REFERENCES ON TWO-PHASE GAS-
LIQUID FLOW PHENOMENA, EXCLUDING THE PROBLEM AREAS OF
CONDENSATION, CAVITATION, AND ATOMIZATION. FOUR
TECHNICAL REPORTS, PRESENTING REVIEWS OF VARIOUS
PROBLEM AREAS WERE ALSO COMPLETED AND DISTRIBUTED.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-633 101 20/9
STANFORD UNIV CALIF INST FOR PLASMA RESEARCH
BIBLIOGRAPHY OF STANFORD REPORTS, PAPERS AND
CONFERENCE PRESENTATIONS ON PLASMA PHYSICS. (U)
FEB 66 66P
REPT. NO. SU-IPR-52.

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*PLASMA PHYSICS, *BIBLIOGRAPHIES),
SCIENTIFIC RESEARCH, REPORTS, SYMPOSIA (U)

CONTENTS: PUBLICATIONS SINCE FORMATION OF
INSTITUTE FOR PLASMA RESEARCH. PUBLICATIONS
BEFORE FORMATION OF INSTITUTE FOR PLASMA
RESEARCH: AERONAUTICS AND ASTRONAUTICS
DEPARTMENT, MECHANICAL ENGINEERING
DEPARTMENT, MICROWAVE LABORATORY, STANFORD
ELECTRONICS LABORATORY. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-633 139 20/4 1/3
DAVID TAYLOR MODEL BASIN WASHINGTON D C AERODYNAMICS
LAB
LITERATURE SEARCH AND COMPREHENSIVE BIBLIOGRAPHY OF
WINGS IN GROUND EFFECT AND RELATED PHENOMENA, (U)
MAR 66 106P FOSHAG, WILLIAM F. I
REPT. NO. AERO-1098,
MONITOR: DTMB, 2179

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*WINGS, BIBLIOGRAPHIES), (*GROUND
EFFECT, WINGS), SEAPLANES, AERODYNAMIC
CHARACTERISTICS, LIFT, GROUND EFFECT MACHINES,
HYDROFOILS, VERTICAL TAKE-OFF PLANES, SHORT
TAKE-OFF PLANES, HYDRODYNAMICS, METEOROLOGY,
AIRFOILS, WIND TUNNELS (U)
IDENTIFIERS: KATZHAYER EFFECT (U)

A COMPREHENSIVE SURVEY AND LITERATURE SEARCH IS
MADE OF THE GENERAL FIELD OF WINGS OPERATING IN
GROUND EFFECT AND RELATED PHENOMENA. COMMENTS ARE
INCLUDED OF SOME OF THE PAPERS PUBLISHED, TO PRESENT
A SKETCH OF THE METHODS OF APPROACH OF A NUMBER OF
AUTHORS. THE BIBLIOGRAPHY PRESENTS SOURCES WHICH
CONSIDER THE PROBLEM FROM THE THEORETICAL,
EXPERIMENTAL, AND/OR APPLICATIONS POINT OF VIEW.
TABLES ARE INCLUDED WHICH PROVIDE A CONVENIENT
BREAKDOWN OF THE VARIOUS SOURCES, FOR A QUICKER
METHOD OF LOCATING SPECIFIC REFERENCES DEALING WITH
AN AREA OF SPECIAL INTEREST TO THE READER.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-634 013 20/6
UNIVERSITY OF SOUTHERN CALIFORNIA LOS ANGELES DEPT OF
ELECTRICAL ENGINEERING
RESEARCH IN OPTICAL COHERENCE. (U)
DESCRIPTIVE NOTE; FINAL REPT.,
DEC 65 20P MACHILLAN, ROBERT S. I
YOUNG, GREGORY O. IARNETT, JAMES D. I
PRATT, WILLIAM K. I
REPT. NO. USCEE-168,
CONTRACT: AF-AFOSR-188-65,
PROJ: AF-9768,
TASK: 976802,
MONITOR: AFOSR , 66-0917

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (OPTICS, STATE-OF-THE-ART REVIEWS),
LIGHT COMMUNICATION SYSTEMS, INFORMATION THEORY,
BIBLIOGRAPHIES (U)
IDENTIFIERS: OPTICAL COHERENCE (U)

CONTENTS: COHERENCE STUDIES, FUNCTIONAL
TRANSFORMATIONS, OPTICAL POLARIZATION
MODULATION, A TEST FOR ERGODICITY FOR A
CERTAIN CLASS OF RANDOM PROCESSES, LENS
SYSTEM OPTIMIZATION, BIBLIOGRAPHY OF
PUBLICATIONS. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AU-635 197 20/3
NAVAL ORDNANCE LAB CORONA CALIF
BIBLIOGRAPHY ON THE HALL EFFECT THEORY, DESIGN AND
APPLICATIONS. SUPPLEMENT II. (U)
JUN 66 33P TURNBULL, W. R. I
REPT. NO. NOLC-659,
TASK: RREN-04-012/211-1/F008-21-01,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (HALL EFFECT, BIBLIOGRAPHIES),
ELECTRONIC EQUIPMENT, ELECTRICAL ENGINEERING (U)

THIS SUPPLEMENT CONTINUES THE INTERNATIONAL SURVEY
OF UNCLASSIFIED SCIENTIFIC PAPERS AND REPORTS ON
RESEARCH AND DEVELOPMENT OF THE HALL EFFECT, AND ON
ELECTRONIC DEVICES BASED ON THE HALL EFFECT, TO 1
APRIL 1966. THE BASIC DOCUMENT WAS NAVWEPS
REPORT 7233 (AD-283 808); SUPPLEMENT 1 WAS
NAVWEPS REPORT 8168 (AD-420 105). (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-635 495 20/2 20/12 13/8
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
ULTRAHIGH PRESSURE STUDIES AND CRYSTAL GROWTH
TECHNIQUES: ANALYTICAL SURVEY. (U)
DESCRIPTIVE NOTE: REPT. NO. 1 ON ATD WORK ASSIGNMENT NO.
79, TASK 25.
MAY 66 64P KOURILO, JOHN J. I
REPT. NO. ATD-66-56,
MONITOR: TT 66-61772

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET-SATELLITE OPEN
SOURCES PUB. IN 1963. REPT. ON SURVEYS OF FOREIGN
SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (*CRYSTALS, *HIGH-PRESSURE
RESEARCH), (*CRYSTAL GROWTH, SINGLE CRYSTALS),
USSR, ABSTRACTS, BIBLIOGRAPHIES, FILMS,
SEMICONDUCTORS, EPITAXIAL GROWTH, SEMICONDUCTING
FILMS, LASERS, PIEZOELECTRIC CRYSTALS,
LUMINESCENCE, FERROELECTRIC CRYSTALS,
FERROMAGNETIC MATERIALS, DIELECTRICS, INORGANIC
COMPOUNDS (U)

IDENTIFIERS: THIN FILMS (M)

THIS REPORT IS DIVIDED INTO TWO MAIN PARTS
(ANALYTICAL EVALUATION OF DATA AND ANNOTATED
BIBLIOGRAPHY), EACH HAVING THREE SECTIONS. THE
THREE SECTIONS ARE: GENERAL STUDIES, ULTRAHIGH
PRESSURE STUDIES, AND CRYSTAL GROWTH TECHNIQUES, IN
THAT ORDER. SECTION 3 WAS FURTHER SUBDIVIDED, FOR
THE PURPOSE OF RETRIEVAL, INTO SIX CHAPTERS ACCORDING
TO THE CATEGORY OF THE GROWTH TECHNIQUE. THE
CHAPTERS ARE: A. GROWTH FROM MELTS; B. GROWTH
FROM SOLUTION (FLUX); C. HYDROTHERMAL GROWTH;
D. GROWTH FROM VAPOR PHASE; E. EPITAXIAL GROWTH
OF THIN FILMS; F. OTHER GROWTH TECHNIQUES. THE
REPORT INCLUDES MATERIAL DEALING WITH ULTRAHIGH
PRESSURE STUDIES AND TECHNIQUES OF SINGLE CRYSTAL
GROWTH (INCLUDING DEPOSITION OF SINGLE CRYSTALLINE
THIN FILMS) OF THE ELEMENTAL SEMICONDUCTORS AND
SEMICONDUCTING, LASING, LUMINESCENT, FERROELECTRIC,
FERROMAGNETIC, PIEZOELECTRIC, DIELECTRIC, AND OTHER
INORGANIC COMPOUNDS WHICH MAY BE OF INTEREST FOR
AEROSPACE TECHNOLOGY. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-640 270 20/8
NAVAL RESEARCH LAB WASHINGTON D C
BIBLIOGRAPHY OF TRITON INDUCED REACTIONS, (U)
AUG 65 35P OWEN, DAVID I
REPT. NO. NRL-BIB-28,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*TRITONS, *NUCLEAR REACTIONS),
BIBLIOGRAPHIES, ABSTRACTS, INDEXES, TRITON (U)
BOMBARDMENT

THE BIBLIOGRAPHY CONTAINS SUMMARIES OF THE ARTICLES
PUBLISHED ON TRITON INDUCED REACTION BETWEEN 1961 AND
1965. ALSO INCLUDED IS BOTH AN AUTHOR AND A
SUBJECT INDEX TO INCREASE THE UTILITY OF THE (U)
BIBLIOGRAPHY. (AUTHOR)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-640 465 20/11 11/6 11/2 11/9
BATTELLE MEMORIAL INST COLUMBUS OHIO COLUMBUS LABS
DAMPING CAPACITY OF MATERIALS, (U)
JAN 66 391P MARINGER, ROBERT E. ;
CONTRACT: DA-01-021-AMC-11706(Z),
MONITOR: RSIC 508-VOL-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (MATERIALS, INTERNAL FRICTION),
(DAMPING, MATERIALS), SOLIDS, METALS,
ALLOYS, POLYMERS, CERAMIC MATERIALS,
BIBLIOGRAPHIES, PLASTICS (U)

THE REPORT CONTAINS A BRIEF INTRODUCTION TO THE
FIELD OF DAMPING CAPACITY IN MATERIALS AND AN
EXTENSIVE, ANNOTATED BIBLIOGRAPHY. THE INTRODUCTORY
MATERIAL PRESENTS THE FUNDAMENTALS OF DAMPING,
GENERAL METHODS OF MEASURING INTERNAL FRICTION OR
DAMPING CAPACITY, AND SOME REPRESENTATIVE DAMPING
PROPERTIES. THE BIBLIOGRAPHY CONTAINS OVER 2300
REFERENCE TO PERTINENT LITERATURE PUBLISHED FROM 1955
THROUGH 1965, AND IS CROSS-INDEXED BY BOTH AUTHOR AND
SUBJECT. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-640 689 20/11 11/6 11/2 11/4
11/9

BATTELLE MEMORIAL INST COLUMBUS OHIO

DAMPING CAPACITY OF MATERIALS, (U)

JAN 66 394P MARINGER, ROBERT E. I

CONTRACT: DA-01-021-AMC-11706(Z),

MONITOR: RSIC 508-VOL-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-640 465.

DESCRIPTORS: (*MATERIALS, *DAMPING),
BIBLIOGRAPHIES, INTERNAL FRICTION, METALS,
ALLOYS, CERAMIC MATERIALS, PLASTICS, COMPOSITE
MATERIALS (U)

THIS REPORT CONTAINS A BRIEF INTRODUCTION TO THE
FIELD OF DAMPING CAPACITY IN METALS AND AN EXTENSIVE,
ANNOTATED BIBLIOGRAPHY. THE INTRODUCTORY MATERIAL
PRESENTS THE FUNDAMENTALS OF DAMPING, GENERAL METHODS
OF MEASURING INTERNAL FRICTION OR DAMPING CAPACITY,
AND SOME REPRESENTATIVE DAMPING PROPERTIES. THE
BIBLIOGRAPHY CONTAINS OVER 2300 REFERENCES TO
PERTINENT LITERATURE PUBLISHED FROM 1955 THROUGH
1965, AND IS CROSS-INDEXED BY BOTH AUTHOR AND
SUBJECT. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-641 176 20/4
NAVAL ORDNANCE LAB WHITE OAK MD
THE WATER ENTRY PROBLEM WITH BIBLIOGRAPHY, (U)
AUG 66 BSP PARR, WALLACE E. I
REPT. NO. NOLTR-66-173, MATHEMATICS DEPT-M-65

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (WATER ENTRY, MATHEMATICAL
MODELS), (BIBLIOGRAPHIES, WATER ENTRY),
HYDRODYNAMICS (U)

THE REPORT IS A SURVEY OF THE WATER ENTRY PROBLEM
AND ITS VARIOUS MATHEMATICAL FORMULATIONS.
INCLUDED ARE DISCUSSIONS ON THE INCOMPRESSIBLE
CASE, THE COMPRESSIBLE CASE, THE LINEARIZED
INCOMPRESSIBLE, THE LINEARIZED COMPRESSIBLE,
REFLECTED LINEARIZED INCOMPRESSIBLE, LAGRANGIAN,
TWO-DIMENSIONAL AND AXIALLY-SYMMETRIC CASES. ALSO
DISCUSSED ARE THE SOURCE AND DIPOLE FORMULATIONS,
CALCULATION OF ADDED MASSES, SIMILAR SOLUTIONS,
PROBLEMS RELATED TO WATER ENTRY, AND A NOTE OF
CAUTION CONCERNING THE CONSERVATION OF MASS IN AN
INFINITE REGION. FINALLY, A FAIRLY EXTENSIVE
BIBLIOGRAPHY IS GIVEN PRIMARILY COVERING THEORETICAL
WORK ON THE WATER ENTRY AND RELATED PROBLEMS.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-641 504 20/14 20/10
JOHNS HOPKINS UNIV SILVER SPRING MD APPLIED PHYSICS
LAB
RELATIVISTIC EFFECT ON THE CLASSICAL DOPPLER SHIFT: (U)
AN ANNOTATED BIBLIOGRAPHY,
FEB 64 10P BLAU, EDMUND J. I
REPT. NO. TG-230-B2
CONTRACT: N0W-62-0604

UNCLASSIFIED REPORT

DESCRIPTORS: (*BIBLIOGRAPHIES, *DOPPLER EFFECT),
(*RELATIVITY THEORY, DOPPLER EFFECT), ABSTRACTS, (U)
PHYSICS (U)
IDENTIFIERS: DOPPLER SHIFT

THE CLASSICAL PROBLEM OF THE DOPPLER SHIFT OF RADIATION TRANSMITTED BETWEEN TWO BODIES MOVING RELATIVE TO EACH OTHER TOOK ON A NEW ASPECT WITH THE ADVENT OF THE SPACE AGE IN 1957. WHEN MEASUREMENTS ARE MADE BETWEEN THE EARTH AND AN ARTIFICIAL SATELLITE, THE DISTANCE BETWEEN THE OBJECTS IS LARGE ENOUGH SO THAT THE FINITE TIME OF PROPAGATION OF A SIGNAL BETWEEN THE TWO MUST BE TAKEN INTO ACCOUNT. THE CLASSICAL EQUATIONS FOR THE DOPPLER EFFECT MUST ACCORDINGLY BE MODIFIED OR GENERALIZED TO TAKE INTO ACCOUNT THIS RELATIVISTIC EFFECT. WHILE THE CONCEPT OF SIMULTANEITY IN RELATION TO MEASUREMENT AT A DISTANCE WAS NOT NEGLECTED IN EARLIER PAPERS ON RELATIVITY, THE RECENT PRACTICAL IMPORTANCE OF THE PROBLEM HAS GIVEN RISE TO A NUMBER OF NEW PAPERS IN WHICH THE THEORETICAL AND MATHEMATICAL ASPECTS OF THE DOPPLER EFFECT ARE EXAMINED CRITICALLY IN THE LIGHT OF RELATIVITY THEORY. IT IS THESE NEW INVESTIGATIONS WHICH FORM THE SUBJECT MATTER OF THE PRESENT BIBLIOGRAPHY. THE REFERENCES INCLUDED WERE OBTAINED FROM PHYSICS ABSTRACTS AND ELECTRICAL ENGINEERING ABSTRACTS AND THE PERIOD COVERED WAS 1956 THROUGH 1963. THE ABSTRACTS WERE TAKEN FROM THE ABSTRACT JOURNALS, AS NOTED, EXCEPT FOR THAT OF ARTICLE 10, WHICH WAS WRITTEN BY THE COMPILER. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-642 54: 20/12 11/6
FEDERAL AVIATION AGENCY OKLAHOMA CITY OKLA AERONAUTICAL
CENTER
CRACK PROPAGATION: SELECTED REFERENCES. (U)
JAN 65 57P
REPT. NO. FAA BIBLIOGRAPHIC LIST-3

UNCLASSIFIED REPORT

DESCRIPTORS: (FRACTURE(MECHANICS),
BIBLIOGRAPHIES), ACOUSTICS, ALUMINUM,
CORROSION, LOADING(MECHANICS), STRESSES,
MATERIALS, STEEL, STRUCTURES, TEMPERATURE,
TITANIUM, TESTS (U)

CONTENTS: ACOUSTICS; ALUMINUM COMPONENTS;
CORROSION; LOADING AND STRESS; MATERIALS; STEEL;
STRUCTURES; TEMPERATURE; TITANIUM TESTING. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-643 127 20/8 18/8
ARMED FORCES RADIOBIOLOGY RESEARCH INST BETHESDA MD
GAMMA RAY SPECTRAL ANALYSIS: A SELECTED
BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE: SPECIAL PUBLICATION.
SEP 66 26P MASON, G. F. I
REPT. NO. AFRR1-SP66-10

UNCLASSIFIED REPORT

DESCRIPTORS: (GAMMA-RAY SPECTROSCOPY,
BIBLIOGRAPHIES), RADIOACTIVE ISOTOPES,
RADIOACTIVE FALLOUT, NUCLEAR RADIATION
SPECTROMETERS, RADIOACTIVATION ANALYSIS (U)

THIS BIBLIOGRAPHY IS A COLLECTION OF REFERENCES
WHICH DEALS WITH THE ANALYSIS OF GAMMA SPECTRA BY ALL
METHODS. ENTRIES ARE LIMITED TO THOSE SOURCES
WHICH DEAL WITH THE ACTUAL ANALYSIS PHASE OF GAMMA
SPECTROSCOPY BUT SOME DETAILS ARE PRESENT CONCERNING
EQUIPMENT AND SAMPLE PREPARATION BECAUSE MANY GROUPS
HAVE PUBLISHED SYSTEMS IN THEIR ENTIRETY. IN EVERY
CASE, HOWEVER, THERE IS A SECTION ON DATA ANALYSIS
AFTER ACQUISITION. SOME REFERENCES CONTAIN
THEORETICAL MATERIAL NECESSARY FOR THE DEVELOPMENT OF
AN OPERATING SYSTEM, OR THE RESULTS OF STUDIES OF
THEORETICAL METHODS. ALL OF THE REFERENCES ARE
FROM THE PERIOD 1956 TO 1966. AN AUTHOR INDEX IS
INCLUDED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-643 212 20/3
POLYTECHNIC INST OF BROOKLYN N Y MICROWAVE RESEARCH
INST
BIBLIOGRAPHY ON THE ENGINEERING OF HIGH INTENSITY
MAGNETIC FIELDS, (U)
MAR 60 BP KRAMARENKO, PETER I
REPT. NO. MEMO-14, PIBHRI-822-60
CONTRACT: AF-30(602)-2149

UNCLASSIFIED REPORT

DESCRIPTORS: (MAGNETIC FIELDS, BIBLIOGRAPHIES),
COILS, DESIGN, INTENSITY (U)

ANYBODY INTERESTED IN THE PROBLEMS ASSOCIATED WITH
THE VARIOUS ASPECTS OF THE DESIGN OF COILS FOR HIGH
INTENSITY MAGNETIC FIELDS WILL FIND THAT THE SUBJECT
MATTER INVOLVED IS SCATTERED THROUGHOUT THE AVAILABLE
LITERATURE. PAPERS HAVE BEEN LISTED IN
CHRONOLOGICAL ORDER AND SOME NOTES ABOUT THE CONTENTS
HAVE BEEN ADDED WHEREVER THE PAPERS WERE AVAILABLE. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-644 489 20/14 17/2
JOHNS HOPKINS UNIV SILVER SPRING MD APPLIED PHYSICS
LAB
ELECTROMAGNETIC WAVE PROPAGATION IN CONDUCTING MEDIA:
AN ANNOTATED BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE; APL LIBRARY BULLETIN,
SEP 66 64P BLAU, E. J. ILUN, M. J. 1
REPT. NO. TG-230-B4
CONTRACT: NOW-62-0604

UNCLASSIFIED REPORT

DESCRIPTORS: (*RADIO TRANSMISSION, OCEANS),
(*ELECTROMAGNETIC WAVES, PROPAGATION),
(*BIBLIOGRAPHIES, ELECTROMAGNETIC WAVES),
ABSTRACTS, UNDERWATER COMMUNICATION SYSTEMS,
ANTENNAS, THEORY (U)

THIS DOCUMENT IS AN ANNOTATED BIBLIOGRAPHY OF THE
JOURNAL AND TECHNICAL REPORT LITERATURE (TO
AUGUST 1966) ON ELECTROMAGNETIC WAVE PROPAGATION
IN CONDUCTING MEDIA, WITH EMPHASIS ON THE OCEAN.
REFERENCES ON ANTENNA THEORY AND PERFORMANCE ARE
ALSO INCLUDED. THIS WORK INCLUDES 164 REFERENCES
AND AN AUTHOR INDEX. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-645 393 20/8 18/2
CALIFORNIA INST OF TECH PASADENA
ENERGY LEVELS OF LIGHT NUCLEI (VII). A=5-10, (U)
SEP 65 178P LAURITSEN, T. IAJZENBERG-
SELOVE, F. I
CONTRACT: NONR-220(47)

UNCLASSIFIED REPORT
AVAILABILITY: PUBLISHED IN NUCLEAR PHYSICS V78 N1
P1-176 1966.
SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH
HAVERFORD COLL., PA. SEE ALSO AD-287 127.

DESCRIPTORS: (*NUCLEAR ENERGY LEVELS, REVIEWS),
(*HYDROGEN, NUCLEAR ENERGY LEVELS), (*HELIUM,
NUCLEAR ENERGY LEVELS), (*LITHIUM, NUCLEAR
ENERGY LEVELS), (*BERYLLIUM, NUCLEAR ENERGY
LEVELS), (*BORON, NUCLEAR ENERGY LEVELS),
NUCLEAR STRUCTURE, NUCLEAR PROPERTIES, NUCLEAR
REACTIONS, TABLES, DIAGRAMS, BIBLIOGRAPHIES,
NUCLEAR ISOBARS (U)

THE ARTICLE IS A SUMMARY OF EXISTING EXPERIMENTAL
INFORMATION ON THE STRUCTURE AND PROPERTIES OF THE
NUCLEI WITH MASS NUMBERS FIVE THROUGH TEN. EACH
NUCLEUS IS REPRESENTED BY A DIAGRAM AND A TABLE
EXHIBITING THE KNOWN PROPERTIES OF THE ENERGY LEVELS
AND THE NUCLEAR REACTIONS FROM WHICH THE INFORMATION
DERIVES. THE ACCOMPANYING TEXT CONTAINS AN
ABBREVIATED DISCUSSION AND A SELECTED BIBLIOGRAPHY
FOR EACH RELEVANT REACTION. SINCE MOST NUCLEAR
REACTIONS PROVIDE INFORMATION ON MORE THAN ONE
NUCLEUS EACH REACTION IS LISTED UNDER BOTH THE
COMPOUND AND THE RESIDUAL NUCLEI, WITH DIFFERENTLY
ORIENTED DISCUSSIONS AND PARTIALLY OVERLAPPING
BIBLIOGRAPHIES. AT THE BEGINNING OF THE TEXT
MATERIAL ON EACH NUCLEUS, A 'GENERAL' BIBLIOGRAPHY IS
LISTED. THIS LISTING CONSISTS MAINLY OF
THEORETICAL PAPERS DEALING WITH THIS NUCLEUS,
ALTHOUGH SOME EXPERIMENTAL PAPERS NOT OTHERWISE
CLASSIFIABLE ARE ALSO INCLUDED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-649 862 20/8 7/4
NATIONAL BUREAU OF STANDARDS BOULDER COLO LAB ASTROPHYSICS
DIV
BIBLIOGRAPHY OF LOW ENERGY ELECTRON COLLISION CROSS
SECTION DATA, (U)
MAR 67 96P KIEFFER, L. J. ;
MONITOR: NBS MISCELLANEOUS PUB-289

UNCLASSIFIED REPORT
AVAILABILITY: HARD COPY AVAILABLE FROM
SUPERINTENDENT OF DOCUMENTS, GPO, WASHINGTON, D.
C. 20402 80-50.

DESCRIPTORS: (*ELECTRONS, SCATTERING),
(*ELECTRON BOMBARDMENT, BIBLIOGRAPHIES),
PROBABILITY, INTERACTIONS, POSITRONS, ELASTIC
SCATTERING, ATOMIC ENERGY LEVELS, MOLECULAR ENERGY
LEVELS, GAS IONIZATION, RECOMBINATION REACTIONS, (U)
EXCITATION (U)
IDENTIFIERS: DEFENDER PROJECT

A BIBLIOGRAPHY OF LOW ENERGY ELECTRON COLLISION
CROSS SECTION DATA IS PRESENTED. ONLY REFERENCES
WHICH REPORT ORIGINAL MEASUREMENTS OR CALCULATIONS OF
ELECTRON COLLISION CROSS SECTIONS ARE INCLUDED.
THE CROSS SECTION DATA FOR EACH PROCESS ARE LISTED
BY ATOMIC SPECIES IN ORDER OF THEIR ATOMIC NUMBER.
THE DATA FOR MOLECULES ARE LISTED IN ARBITRARY
ORDER. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-651 376 20/3
STANFORD RESEARCH INST MENLO PARK CALIF
SUPERCONDUCTING DEVICES: A LITERATURE SURVEY. (U)
MAR 67 72P GOREE, WILLIAM S. I
EDELSACK, EDGAR A. I

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: PREPARED IN COOPERATION WITH OFFICE
OF NAVAL RESEARCH, WASHINGTON, D. C.

DESCRIPTORS: (SUPERCONDUCTORS,
BIBLIOGRAPHIES), SUPERCONDUCTIVITY, REVIEWS (U)

THIS BIBLIOGRAPHY OF THE LITERATURE OF
SUPERCONDUCTING DEVICES AND RELATED RESEARCH COVERS
MOST EXTENSIVELY THE PERIOD FROM 1959 TO MARCH,
1967, AND CONTAINS APPROXIMATELY 1,000 ENTRIES
REPRESENTING ENGLISH AND FOREIGN LANGUAGE
PUBLICATIONS. ABOUT 300 ENTRIES ARE ON SPECIFIC
SUPERCONDUCTING DEVICES. SOME 150 UNITED
STATES PATENTS ARE ALSO LISTED. SO MANY
REFERENCES WERE AVAILABLE RELATING SOLELY TO
SUPERCONDUCTING MAGNETS AND COMPUTER ELEMENTS THAT
THE LISTING OF THESE WAS RESTRICTED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-652 881 20/11
ARMY MATERIALS RESEARCH AGENCY WATERTOWN MASS
A REPORT GUIDE TO FATIGUE TESTING LITERATURE. (U)
DESCRIPTIVE NOTE; MONOGRAPH SERIES;
MAY 67 69P MERHIB, CHARLES P. I
REPT. NO. AMRA-MS-67-05

UNCLASSIFIED REPORT

DESCRIPTORS: (FATIGUE(MECHANICS), TESTS),
BIBLIOGRAPHIES, ABSTRACTS, NON-DESTRUCTIVE
TESTING, FAILURE(MECHANICS), TEST METHODS, (U)
CRACKS

THE MAIN OBJECTIVE OF THE COMPILATION IS TO PROVIDE
SIMPLE AND FAST ACCESS TO INFORMATION ON THE SUBJECT
OF FATIGUE TESTING AND YET PROVIDE SUFFICIENT
INFORMATION IN THE FORM OF ABSTRACTS AND WORD
DESCRIPTORS TO MAKE THE LISTING USEFUL. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-655 066 20/4 1/1
RAND CORP SANTA MONICA CALIF
ENERGY TRANSFER IN PARTICLE-SURFACE INTERACTIONS IN
HYPERVELOCITY FLIGHT: COMMENTARY AND
BIBLIOGRAPHY, (U)
JUL 67 77P HURLBUT, F. C. ;
REPT. NO. RM-4885-PR
CONTRACT: F44620-67-C-0045

UNCLASSIFIED REPORT

DESCRIPTORS: (HEAT TRANSFER, FLIGHT),
PARTICLES, SURFACES, INTERACTIONS,
BIBLIOGRAPHIES, ENERGY, GAS FLOW, THERMAL
CONDUCTIVITY (U)
IDENTIFIERS: HYPERVELOCITY FLIGHT (U)

THE MEMORANDUM REVIEWS THERMAL-ENERGY TRANSFER IN
PARTICLE-SURFACE INTERACTIONS AND PRESENTS AN
EXTENSIVE, PARTIALLY ANNOTATED BIBLIOGRAPHY OF
LITERATURE RELEVANT TO THIS FIELD. THE SUBJECT
AREA IS LIMITED TO NONREACTIVE ENERGY TRANSFER
BETWEEN NEUTRAL GAS MOLECULES AND SURFACES AT ENERGY
LEVELS OF INTEREST TO GAS DYNAMICISTS AND HENCE IS
EXTENDED, IN THESE TERMS, FROM THE ENERGIES
ASSOCIATED WITH GASES AT LOW TEMPERATURES TO THOSE
ASSOCIATED WITH THE VELOCITIES OF SATELLITES. A
SUMMARY OF VALUES OF THE THERMAL ACCOMMODATION
COEFFICIENTS OBTAINED OVER THE YEARS IS GIVEN, AND
THE EXPERIMENTAL METHODS USED AND THE CURRENT
INTERPRETATION OF THE RESULTS ARE REVIEWED. A
DISCUSSION AND EVALUATION OF CURRENT AND PAST
THEORETICAL WORK IN THIS AREA IS ALSO INCLUDED.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-655 100 20/12 20/6 20/2 20/3

NAVAL ORDNANCE LAB CORONA CALIF

SEMICONDUCTING THIN FILMS: AN ANNOTATED
BIBLIOGRAPHY, 1956-1966.

(U)

JUN 67 291P TURNBULL, W. R. I

REPT. NO. NOLC-712

TASK: R-360-FR-104/211-1/RO11-01-01

UNCLASSIFIED REPORT

DESCRIPTORS: (•SEMICONDUCTING FILMS,
•BIBLIOGRAPHIES), REVIEWS, SOLID STATE
PHYSICS, PHYSICAL PROPERTIES, PREPARATION,
THEORY, GERMANIUM, SILICON, BORON, OPTICAL
PROPERTIES, GALLIUM COMPOUNDS, INDIUM COMPOUNDS,
CADMIUM COMPOUNDS, ZINC COMPOUNDS, MERCURY
COMPOUNDS, SILICON CARBIDES, EPITAXIAL GROWTH

(U)

A COMPREHENSIVE BIBLIOGRAPHIC SURVEY OF THE
PREPARATION, PROPERTIES, APPLICATIONS, AND THEORY OF
SEMICONDUCTING THIN FILMS IS PRESENTED. IT IS
COMPRISED OF 976 REFERENCES PUBLISHED IN ENGLISH
AND FOREIGN LANGUAGE PERIODICAL LITERATURE BETWEEN
1956 AND DECEMBER 1966. THE ABSTRACTS ARE
ARRANGED BY AUTHOR UNDER THE FOLLOWING CLASSES:
(1) ELEMENTAL, (2) GROUP III-V,
(3) GROUP II-V, (4) GROUP IV-VI,
(5) GROUP IV-IV, AND (6) MISCELLANEOUS
COMPOUNDS. ALL OF THE MATERIALS ARE INDEXED WITH
THE EXCEPTION OF THE MISCELLANEOUS COMPOUNDS
(GROUPS I-V, I-VI, AND I-VII).
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-655 774 20/5 17/2 17/8 13/8
14/5

AIR FORCE CAMBRIDGE RESEARCH LABS L G HANSCOM FIELD
MASS

A BIBLIOGRAPHY OF LASER APPLICATIONS. (U)

DESCRIPTIVE NOTE; SPECIAL REPORTS NO. 62.

APR 67 46P STICKLEY, C. MARTIN I

GINGRANDE, ARTHUR I

REPT. NO. AFCRL-67-0223

PROJ: AF-4645

TASK: 464502

UNCLASSIFIED REPORT

DESCRIPTORS: (LASERS, BIBLIOGRAPHIES),
MEASUREMENT, LIGHT COMMUNICATION SYSTEMS, OPDAR,
INSTRUMENTATION, CHEMISTRY, PHOTOGRAPHY,
MATERIAL FORMING (U)

THE BIBLIOGRAPHY OF LASER APPLICATIONS CONTAINS 644
ENTRIES FROM THE OPEN LITERATURE FOR THE PERIOD 1961
THROUGH SEPTEMBER 1966. THE ENTRIES ARE DIVIDED
INTO THE FOLLOWING MAJOR AREAS: MECHANICAL
MEASUREMENTS AND STANDARDS; COMMUNICATIONS
APPLICATIONS; RADAR AND TRACKING APPLICATIONS;
MILITARY APPLICATIONS; OPTICAL SIGNAL PROCESSING;
INTERFEROMETRY AND TESTING OF OPTICAL COMPONENTS;
APPLICATIONS TO SCIENTIFIC STUDIES; APPLICATIONS IN
CHEMISTRY; PHOTOGRAPHIC APPLICATIONS; METALWORKING;
AND MISCELLANEOUS APPLICATIONS. THE ENTRIES ARE
FURTHER SUBDIVIDED INTO 78 OTHER CATEGORIES.
APPLICATIONS IN MEDICAL AND BIOLOGICAL RESEARCH ARE
NOT INCLUDED; COMPLETE COVERAGE IN THE OTHER AREAS IS
NOT GUARANTEED. UNDER SOME TOPICS (DETECTION
TECHNIQUES, SPECTROSCOPY, INTERACTION WITH ACOUSTIC
WAVES, PLASMA DIAGNOSTICS, NONLINEAR OPTICS, GAS
BREAKDOWN, SCATTERING, HOLOGRAPHY) SO MUCH HAS BEEN
PUBLISHED THAT ONLY REVIEW ARTICLES, ARTICLES OF
MAJOR IMPORTANCE, AND VERY RECENT ARTICLES COULD BE
INCLUDED. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-656 759 20/8 20/10 20/2
KAMAN NUCLEAR COLORADO SPRINGS COLO
X-RAY SCATTERING BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE; REPT. FOR 1 SEP 66-31 AUG 67.
JUN 67 76P VEIGELE, WILLIAM J. I
REPT. NO. KN-738-67-2(R)
CONTRACT: N00014-67-C-0154

UNCLASSIFIED REPORT

DESCRIPTORS: (X RAYS, SCATTERING),
BIBLIOGRAPHIES, INCOHERENT SCATTERING, COHERENT
SCATTERING, PHOTONS, INTERACTIONS, PROBABILITY,
X-RAY DIFFRACTION ANALYSIS, X-RAY SPECTROSCOPY,
CRYSTALLOGRAPHY (U)

THE DOCUMENT CONTAINS A BIBLIOGRAPHY OF
EXPERIMENTAL AND THEORETICAL PAPERS ON INCOHERENT AND
COHERENT SCATTERING OF X RAYS. ENTRIES ARE CROSS
INDEXED FOR THEORETICAL AND EXPERIMENTAL PAPERS, AND
ALL ENTRIES ARE VERIFIED IN SCIENCE ABSTRACTS,
MATHEMATICAL REVIEWS, OR NUCLEAR SCIENCE
ABSTRACTS TO FACILITATE OBTAINING LISTED PAPERS OR
INTERLIBRARY LOAN. (AUTHOR) (U)

PROPULSION AND FUELS

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-402 666

PENNSYLVANIA STATE UNIV UNIVERSITY PARK
BIBLIOGRAPHY ON COMPRESSION IGNITION ENGINE LOW
TEMPERATURE PROBLEMS. INDEX VOLUME. (U)

DESCRIPTIVE NOTE: SECOND EDITION,

62 40P MEYER, W.E.1

CONTRACT: DA36 0340RD3199RD

UNCLASSIFIED REPORT

DESCRIPTORS: •INTERNAL COMBUSTION ENGINES,
•DIESEL ENGINES, •BIBLIOGRAPHIES, COMPRESSED
AIR, LOW TEMPERATURE RESEARCH, IGNITION,
INDEXES. (U)

THIS BIBLIOGRAPHY CONSISTS OF THIS INDEX VOLUME AND
A SET OF ABSTRACT CARDS. THIS SECOND EDITION IS A
COMPLETE AND THOROUGH REVISION OF THE FIRST EDITION.
THE SCOPE OF THE BIBLIOGRAPHY REMAINS UNCHANGED,
BUT ITS INTERPRETATION IS SLIGHTLY DIFFERENT IN THAT
IT IS MORE RIGOROUS. THE BIBLIOGRAPHY DEALS WITH
ALL ASPECTS OF LOW TEMPERATURE (OR COLD WEATHER)
OPERATION OF COMPRESSION IGNITION ENGINES. IT
LIES IN THE NATURE OF THE SUBJECT THAT THE LITERATURE
ON IT DEALS HEAVILY WITH THE STARTING PROBLEM.
(AUTHOR) (U)

266

UNCLASSIFIED

000362

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-406 958

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA
CHEMICAL AND NUCLEAR PROPELLANT MATERIALS.

(U)

JUN 63 17P

UNCLASSIFIED REPORT

DESCRIPTORS: *BIBLIOGRAPHIES, *ROCKET PROPEL
LANTS, *NUCLEAR PROPULSION, MATERIALS.

(U)

BIBLIOGRAPHY ON CHEMICAL AND NUCLEAR PROPELLANT MATERIALS.
INCLUDES PERIPHERAL MATERIAL DEALING WITH CHEMICAL AND
NUCLEAR PROPELLANT TRANSLATION LITERATURE.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-410 510

AIR FORCE WEAPONS LAB KIRTLAND AFB N MEX
BIBLIOGRAPHY OF EXTRATERRESTRIAL RESEARCH,

(U)

JUN 63 IV HENNY, ROBERT W. I

PROJ: 1080

MONITOR: AFWL

RTD TDR63 3025,

UNCLASSIFIED REPORT

DESCRIPTORS: (*BIBLIOGRAPHIES, EXTRATERRES
TRIAL BASES), (*ASTROPHYSICS, BIBLIOGRAPHIES),
(*EXTRATERRESTRIAL BASES, BIBLIOGRAPHIES),
(*MOON, BIBLIOGRAPHIES), (*PLANETS, BIBLIOG
RAPHIES), (*SPACE ENVIRONMENTAL CONDITIONS,
BIBLIOGRAPHIES), (*SPACECRAFT,
BIBLIOGRAPHIES),

(U)

IDENTIFIERS: 1963.

(U)

THE PURPOSE OF THIS BIBLIOGRAPHY IS TO PROVIDE A
REFERENCE SOURCE ON ALL EXTRATERRESTRIAL RESEARCH
PERTINENT TO PLANETARY EXPLORATION, SCIENTIFIC
INVESTIGATION, AND BASE CONSTRUCTION, AND TO INCLUDE
ALL KNOWN REFERENCES IN THESE AND RELATED AREAS.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-416 634

MERCULES POWDER CO KENVIL N J

BIBLIOGRAPHY ON WING II MINUTEMAN REVERSE THRUST
SYSTEM WEAPON SYSTEM 133A.

(U)

JUL 63 23P

REPT. NO. K35/MR 34

CONTRACT: AFD4 647 243

UNCLASSIFIED REPORT

DESCRIPTORS: (•BIBLIOGRAPHIES, ROCKET MOTORS
(SOLID PROPELLANT)), (•ROCKET MOTORS (SOLID
PEPELLANT), BIBLIOGRAPHIES), RETRO ROCKETS,
THRUST REVERSE, GUIDED MISSILES (SURFACE TO
SURFACE), RCKET MOTORS, DOCUMENTATION.

(U)

IDENTIFIERS: 1963, MINUTEMAN.

(U)

ALL DOCUMENTS PREPARED BY TH KENVIL WORKS OF
MERCULES POWDER COMPANY FOR THE WING II
MINUTE MAN REVERSE THRUST SYSTEM ROCKET
MOTORS THROUGH 31 JULY 1963 ARE LISTED. THE
BIBLIOGRAPHY REPORT PROVIDES A SYSTEM THROUGH WHICH
DOCUMENTED INFORMATION PERTAINING TO RETRO AND
TUMBLE ROCKET MOTORS IS READILY AVAILABLE.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-421 903

VIRGINIA UNIV CHARLOTTESVILLE

BIBLIOGRAPHY OF SQUID PUBLICATIONS JUNE 1961

SEPTEMBER 1963.

(U)

OCT 63 74P

CONTRACT: NONR362300

PROJ: NR098 038

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (JET PROPULSION, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, JET PROPULSION), MATERIALS, PHYSICAL
PROPERTIES, GASES, LIQUIDS, SOLIDS, MATHEMATICS,
PHYSICS, CHEMISTRY, THERMODYNAMICS, THERMOCHEMISTRY,
COMBUSTION, INSTRUMENTATION (U)
IDENTIFIERS: 1963, SQUID PROJECT (U)

THE FOLLOWING LIST OF PROJECT SQUID
PUBLICATIONS REPRESENTS THE FOURTH SUPPLEMENT TO THE
INITIAL BIBLIOGRAPHY, "TEN YEARS OF PROJECT
SQUID - A BIBLIOGRAPHY", WHICH APPEARED IN
"JET PROPULSION", AUGUST 1956, AND WAS
DESIGNATED AS PROJECT SQUID TECHNICAL REPORT
PR-67-P. THIS SUPPLEMENT (PROJECT SQUID
TECHNICAL REPORT UVA-3-R) COVERS THE PERIOD 1
JUNE 1961 TO 30 SEPTEMBER 1963. THREE PREVIOUS
SUPPLEMENTS, PROJECT SQUID TECHNICAL REPORTS
PR-67-P-A, PR-67-P-B, AND PR-67-P-C COVERED
THE PERIODS 1 JUNE 1956 TO 1 JUNE 1957, 1 JUNE
1957 TO 1 JUNE 1959, AND 1 JUNE 1959 TO 1 JUNE
1961, RESPECTIVELY. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-423 550

DEFENSE DOCUMENTATION CENTER ALEXANDRIA VA
COMBUSTION AND EXHAUST PRODUCTS. A DDC REPORT
BIBLIOGRAPHY.

(U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR APR 51-MAY 63,
DEC 63 IV NICHOLS, OWEN D. I
RICE, RANDALL G. I

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, COMBUSTION PRODUCTS),
(*ABSTRACTS, EXHAUST GASES), (*EXHAUST GASES,
BIBLIOGRAPHIES), (*COMBUSTION PRODUCTS,
BIBLIOGRAPHIES), (*COMBUSTION CHAMBER GASES,
BIBLIOGRAPHIES), (*CONDENSATION TRAILS,
BIBLIOGRAPHIES), COMBUSTION DEPOSITS, THERMODYNAMICS,
EXHAUST NOZZLES, DIFFUSION, COMPATIBILITY (U)
IDENTIFIERS: 1963 (U)

THIS IS THE SECOND OF A SERIES OF BIBLIOGRAPHIES
COVERING TWO BROAD SUBJECTS - FLAMES AND COMBUSTION.
PART I APPEARS UNDER TWO SEPARATE COVERS AS AD-
422 075 AND AD-344 535, ENTITLED "FLAMES AND
FLAME PROPERTIES". THE UNCLASSIFIED,
UNLIMITED AD-422 075 CONTAINS ABOUT 800 REFERENCES.
AD-344 535 IS CONFIDENTIAL AND UNCLASSIFIED
LIMITED, AND CONTAINS ABOUT 250 REFERENCES. THE
PRESENT BIBLIOGRAPHY COVERS CONDENSATION TRAILS,
COMBUSTION CHAMBER GASES, COMBUSTION DEPOSITS,
EXHAUST FLAMES, AND EXHAUST GASES. DATES OF REPORTS
REFERENCED COVER THE TIME SPAN APRIL 1951 TO MAY
1963. ABOUT 500 REFERENCES ARE CITED. THESE ARE
RESTRICTED TO THE DDC UNCLASSIFIED, UNLIMITED
COLLECTION. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-429 317

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

ELECTROSTATIC ROCKET TECHNOLOGY. COMPREHENSIVE REPORT
ON SOVIET PERIODICAL LIT TURE. (U)

DEC 63 70P

MONITOR: AID P63 121

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*ROCKET RESEARCH, ION ENGINES),
(*ABSTRACTS, ROCKET RESEARCH), (*REPORTS, ROCKET
RESEARCH), (*ION ENGINES, ELECTROSTATICS), MODELS
(SIMULATIONS), SURFACE PROPULSION, CESIUM,
IONIZATION, TUNGSTEN, POROUS METALS, IONIC CURRENT,
ION BEAMS, SPACE CHARGES, PLASMA OSCILLATIONS,
SECONDARY EMISSION, ION SOURCES, ION EXCHANGE,
REVIEWS, PERIODICALS, BIBLIOGRAPHIES, ELECTRON
BOMBARDMENT, ALKALI METALS (U)

IDENTIFIERS: 1963, USSR, AID (U)

CONTENTS: LABORATORY MODEL OF AN ION-
PROPULSION MOTOR; ION PRODUCTION; ION
OPTICS; ION BEAM NEUTRALIZATION; CHARGE
EXCHANGE; AND SECONDARY EMISSION. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-435 541

MONSANTO RESEARCH CORP DAYTON OHIO

SURVEY OF RECENT RESEARCH ON FLAME

EXTINGUISHMENT.

(U)

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

FEB 64 24P SKINNER, G. B. I

CONTRACT: AF33 657 10304

PROJ: 6075

TASK: 607505

MONITOR: ASD TR61 408, SUPPL. 2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*COMBUSTION, BIBLIOGRAPHIES),

(*REACTION KINETICS, COMBUSTION), FLAME PROPAGATION,
INHIBITION, ALKENES, BENZENE, ARGON, NITROGEN, IODINE
COMPOUNDS, SHOCK TUBES, AMMONIA, FORMALDEHYDE, BROMINE
COMPOUNDS, FLUORINE COMPOUNDS, HYDROCARBONS, CHLORINE
COMPOUNDS, HYDROGEN COMPOUNDS, NITRATES, ESTERS,
CHLOROFORM, CARBON TETRACHLORIDE, BORON COMPOUNDS,
METALORGANIC COMPOUNDS, IRON COMPOUNDS, CARBONYL
GROUPS, LEAD COMPOUNDS, FIRE EXTINGUISHERS,
HALOGENATED HYDROCARBONE, BROMIDES, CHLORIDES (U)

IDENTIFIERS: 1963, ISOBUTENE, ETHYLENE,

IODOMETHANE, METHANE, ETHANE, METHANE BROMOTRIFLUORO,
METHANE TRIFLUORO, ETHANE DIBROMOTETRAFLUORO, ETHANE
HEXAFLUORO, METHYL CHLORIDE, METHYL BROMIDE, ETHYLENE
CHLORIDE, HYDROGEN CHLORIDE, ISOPROPYL NITRATE,
HYDROGEN BROMIDE, BORON TRIFLUORIDE, IRON
PENTACARBONYL, TETRAETHYLLEAD, LEAD BROMIDE, LEAD
CHLORIDE (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-451 712

PENNSYLVANIA STATE UNIV UNIVERSITY PARK COLL OF
ENGINEERING AND ARCHITECTURE
BIBLIOGRAPHY ON COMPRESSION IGNITION ENGINE LOW
TEMPERATURE PROBLEMS, (U)

SEP 64 109P MEYER, W. E. I

REPT. NO. ERB B90

CONTRACT: DA36 0340RD3199RD

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: ALSO AVAILABLE FROM PENNSYLVANIA
STATE UNIV., UNIVERSITY PARK, ATTN: ENGINEERING
PUBLICATIONS, PRICE \$3.00.

DESCRIPTORS: (DIESEL ENGINES, BIBLIOGRAPHIES),
(BIBLIOGRAPHIES, DIESEL ENGINES), COLD WEATHER TESTS,
STARTING, OPERATIONS, ARMY RESEARCH, POLAR REGIONS (U)
IDENTIFIERS: 1964 (U)

THOUGH THE TITLE INDICATES THE GENERAL SCOPE OF THE
BIBLIOGRAPHY, IT DOES NOT SHARPLY DEFINE WHAT HAS
BEEN INCLUDED AND WHAT HAS NOT. THE SUBJECT AREA
IS ONE IN WHICH EMPIRICISM AND PAST EXPERIENCE STILL
PLAY AN IMPORTANT ROLE. REPORTS OF FIELD OPERATIONS
AND TRIAL-AND-ERROR EXPERIMENTS ARE THEREFORE WORTH
NOTHING IF THE DOCUMENTATION OF SIGNIFICANT DETAILS
IS SUFFICIENT TO BE OF POSSIBLE VALUE TO ANYONE
FACING THE SAME OR A SIMILAR PROBLEM OR SITUATION.
AT THE OTHER END OF THE SPECTRUM ARE SOME TITLES
THAT MAY APPEAR TO HAVE LITTLE RELATION TO THE
GENERAL SUBJECT. MOST OF THESE REFER TO RESEARCH
TECHNIQUES OR STUDIES OF FUNDAMENTAL PHENOMENA WHICH,
IN THE COMPILER'S OPINION, SUGGEST NEW APPROACHES TO
CERTAIN PROBLEMS OF LOW TEMPERATURE STARTING OR
OPERATION OF COMPRESSION IGNITION ENGINES. THEY
ARE INCLUDED IN THE HOPE THAT THEY MAY STIMULATE AN
INCREASED APPRECIATION OF THE UTILITY OF MORE
SCIENTIFIC, OR AT LEAST MORE SOPHISTICATED, METHODS
OF INVESTIGATION. EACH CITATION HAS A LOCATING
KEY, MADE UP OF ITS SOURCE AND DATE. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-609 240

VIRGINIA UNIV CHARLOTTESVILLE

BIBLIOGRAPHY OF SQUID PUBLICATIONS, OCTOBER 1963-

SEPTEMBER 1964.

(U)

DESCRIPTIVE NOTE; TECHNICAL REPT.

NOV 64 42P

REPT. NO. UVA-6-R

CONTRACT: NONR362300

PROJ: NR098 038

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPT. ON PROJ. SQUID.

DESCRIPTORS: (BIBLIOGRAPHIES, JET ENGINES), (JET
PROPULSION, BIBLIOGRAPHIES), GASES, TRANSPORT
PROPERTIES, STRUCTURAL PROPERTIES, FLUID FLOW,
REACTION KINETICS, COMBUSTION, INSTRUMENTATION,
MATERIALS

(U)

IDENTIFIERS: SQUID PROJECT

(U)

THE FOLLOWING LIST OF PROJECT SQUID
PUBLICATIONS REPRESENTS A CONTINUATION OF PROJECT
SQUID TECHNICAL REPORT UVA-3-R, OCTOBER 1963
(AD-421 903). (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000367

AD-610 260

THIOLKOL CHEMICAL CORP ELKTON MD
EXPERIMENTS FOR THE MEASUREMENT OF THE ACOUSTIC
IMPEDANCE OF A BURNING SOLID PROPELLANT. (U)

DESCRIPTIVE NOTE; QUARTERLY TECHNICAL REPT. NO. 3, 15
NOV 61-15 FEB 62;

MAR 62 36P STERN, EDWARD S. I

WOODYARD, JAMES R. I CONVERSE, ALVIN O. I

REPT. NO. E47-62

CONTRACT: NONR347300

PROJ: ARPA ORDER 23 61

TASK: 5

MONITOR: N62 , 10406

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (SOLID ROCKET PROPELLANTS, ACOUSTICAL
IMPEDANCE), (COMBUSTION, SOLID ROCKET PROPELLANTS),
STABILITY, COMBUSTION CHAMBERS, TEST EQUIPMENT,
TRANSDUCERS, MICROPHONES, BIBLIOGRAPHIES (U)

THE REPORT DESCRIBES THE PROGRESS MADE DURING A
RESEARCH PROGRAM TO MEASURE THE ACOUSTIC IMPEDANCE OF
A BURNING SOLID PROPELLANT. THE ACOUSTIC IMPEDANCE
OF ACOUSTICAL MATERIALS CAN BE DETERMINED WITH THE
PRESENT INSTRUMENTATION. DATA OBTAINED USING THE
ELKTON TEST CHAMBER ARE COMPARED WITH TYPICAL DATA
OBTAINED FROM THE LITERATURE. VARIATIONS DUE TO
MOUNTING AND THICKNESS OF TEST SPECIMENS ARE
DISCUSSED. DETAILS OF THE MICROPHONE AND SOUND
DRIVER PERFORMANCE ARE PRESENTED. LINEARITY TESTS
OF THE EQUIPMENT HAVE INDICATED POSSIBLE OPERATIONAL
PROBLEMS WHICH MUST BE CHECKED FURTHER. A
SUPPLEMENTARY BIBLIOGRAPHY OF APPLICABLE REFERENCES
IS INCLUDED AS AN APPENDIX TO THE REPORT.
(AUTHOR) (U)

UNCLASSIFIED

000367

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000342

AD-614 133

MELPAR INC FALLS CHURCH VA

COMPREHENSIVE BIBLIOGRAPHY FOR MECHANISM OF
MICROBIOLOGICAL CONTAMINATION OF JET FUEL AND
DEVELOPMENT OF TECHNIQUES FOR DETECTION OF
MICROBIOLOGICAL CONTAMINATION, APPENDIX C. (U)

DESCRIPTIVE NOTE: QUARTERLY PROGRESS REPT. NO. 2, APP. 1

JUN-1 SEP 63,

SEP 63

93P

BLANCHARD, GORDON C. I

CONTRACT: AF33 657 9186

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (FUEL CONTAMINATION, BIBLIOGRAPHIES),
(JET ENGINE FUELS, BIOLOGICAL CONTAMINATION),
MICROORGANISMS, BACTERIA, PSEUDOMONAS, CORROSION,
CORROSION INHIBITION, POLYMERS, LUBRICANTS,
DEGRADATION, PURIFICATION, HYDROCARBONS, FUEL
ADDITIVES, OXIDATION, ELASTOMERS, AROMATIC COMPOUNDS,
PETROLEUM, FUEL TANKS (U)

COMPREHENSIVE BIBLIOGRAPHY FOR MECHANISM OF
MICROBIOLOGICAL CONTAMINATION OF JET FUEL AND DEVELOPMENT OF
TECHNIQUES FOR DETECTION OF MICROBIOLOGICAL CONTAMINATION.
APPENDIX C.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-621 383

AEROSPACE INFORMATION DIV LIBRARY OF CONGRESS WASHINGTON D
C

THERMAL STABILITY OF JET FUELS (BIBLIOGRAPHY). (U)

DESCRIPTIVE NOTE: REPT. NO. 1 ON AID WORK ASSIGNMENT
NO. 28.

SEP 61 9P

REPT. NO. AID-61-165A

MONITOR: TT , 65-64076

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•JET ENGINE FUELS, USSR),
BIBLIOGRAPHIES, AVIATION FUELS, PETROLEUM
INDUSTRY (U)

THIS REPORT CONTAINS THE SELECTIVE BIBLIOGRAPHY AND
CRITICAL EVALUATION OF MATERIALS EXAMINED DURING A
PRELIMINARY SCANNING OF THE OPEN SOVIET LITERATURE
FOR INFORMATION SATISFYING THE TASK REQUIREMENT.
THE PERIOD OF INVESTIGATION REPRESENTED IS THE
THIRD QUARTER OF 1961. THE SIX ITEMS DISCUSSED
ARE CONSIDERED TO BE RELEVANT TO THE EVALUATION OF
SOVIET EFFORTS TO IMPROVE THE THERMAL STABILITY OF
JET FUELS. THE USE OF SEQUENCE NUMBERS FOR THE
INDIVIDUAL ITEMS WILL BE CONTINUED IN FUTURE REPORTS
FOR THE SAKE OF SIMPLIFYING THE SYSTEM OF REFERENCE.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-622 245

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

AKADEMIYA NAUK SSSR. INSTITUT DVIGATELEY. A
PRELIMINARY UNEDITED REPORT.

(U)

DEC 64 BIP

REPT. NO. ATD-U-64-155

MONITOR: TT , 65-64133

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: COMPILATION OF SOVIET MATERIAL PUB.
1954-64.

DESCRIPTORS: (ENGINES + MOTORS, SCIENTIFIC
RESEARCH), (INTERNAL COMBUSTION ENGINES,
SCIENTIFIC RESEARCH), USSR, BIBLIOGRAPHIES,
HISTORY, PERSONNEL, SCIENTIFIC ORGANIZATIONS

(U)

THE REPORT IS A PRELIMINARY, PARTIALLY EDITED.
COMPILATION OF SOVIET MATERIAL ON INSTITUT
DVIGATELEY (ENGINE INSTITUTE) PUBLISHED
DURING 1954-1964. THE MATERIAL IS DIVIDED INTO
THREE SECTIONS, COVERING THE HISTORY AND ORGANIZATION
OF THE INSTITUTE, ITS PERSONNEL, AND THEIR
PUBLICATIONS. THE SECTION ON PERSONNEL IS
SUBDIVIDED INTO PART A, WHICH DEALS WITH THOSE
PEOPLE WHO ARE KNOWN MEMBERS OF THE INSTITUTE, AND
PART B, WHICH LISTS THOSE WHO HAVE SOME CONNECTION
WITH THE INSTITUTE BUT HAVE NOT BEEN IDENTIFIED
POSITIVELY AS MEMBERS. LIBRARY OF CONGRESS CALL
NUMBERS APPEAR AT THE RIGHT, AT THE END OF THE MAIN
ENTRY, WHENEVER THE SOURCE IS CATALOGED IN THE
LIBRARY OF CONGRESS COLLECTIONS. NO LOCATION
SYMBOLS ARE USED FOR SOURCES THAT EITHER ARE NOT
CATALOGED AT THIS TIME, OR UNCATALOGED MATERIALS NOW
AVAILABLE IN THE VARIOUS DIVISIONS OF THE LIBRARY
OF CONGRESS, OR SOURCES IDENTIFIED IN REFERENCES
BUT WHICH CANNOT BE LOCATED. ABSTRACTS OF ARTICLES
ARE GIVEN WHEN AVAILABLE. AN ABSTRACT AND A
TRANSLATED TABLE OF CONTENTS OF B.S. STECHKIN'S
TEXTBOOK REAKTIVNYE DVIGATELY ARE INCLUDED AS AN
APPENDIX TO THE BIBLIOGRAPHY.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-623 248

AEROSPACE INFORMATION DIV LIBRARY OF CONGRESS WASHINGTON D
C

CURRENT INFORMATION ON FUELS AND LUBRICANTS:

COMPILATION OF ABSTRACTS.

(U)

DESCRIPTIVE NOTE: REPT. NO. 30 ON AID WORK ASSIGNMENT
NO. 28.

MAY 64 13P

REPT. NO. AID-U-64-37

MONITOR: TT ,

65-64459

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: CONTAINS POTENTIALLY USEFUL MATERIAL
ON FUELS AND LUBRICANTS IN THE FORM OF INFORMATIVE
ABSTRACTS. REPT. ON SURVEYS OF SOVIET-BLOC
SCIENTIFIC AND TECHNICAL LITERATURE.

DESCRIPTORS: (*FUELS, REVIEWS), (*LUBRICANTS,
REVIEWS), USSR, LIQUID METALS, JET ENGINE FUELS,
OILS, ADDITIVES, GREASES, BIBLIOGRAPHIES

(U)

CURRENT INFORMATION ON FUELS AND LUBRICANTS:
COMPILATION OF ABSTRACTS.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-628 166 21/9
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
LIQUID AND SOLID PROPELLANTS TECHNOLOGY: COMPILATION
OF ABSTRACTS. (U)
DESCRIPTIVE NOTE; REPT. NO. 2 ON ATD WORK ASSIGNMENT NO.
77,
JAN 66 143P WOLSKI, EDWARD I
REPT. NO. ATD-66-2,
MONITOR: TT , 66-60553

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON SOVIET-BLOC OPEN LITERATURE
AND COVERS THE PERIOD JUL-DEC 64. REPT. ON SURVEYS
OF COMMUNIST WORLD SCIENTIFIC AND TECHNICAL
LITERATURE.

DESCRIPTORS: (BIBLIOGRAPHIES, ROCKET
PROPELLANTS), (ROCKET PROPELLANTS,
BIBLIOGRAPHIES), LIQUID ROCKET PROPELLANTS,
SOLID ROCKET PROPELLANTS, ABSTRACTS, USSR (U)

THIS COMPILATION OF ABSTRACTS IS BASED ON SOVIET-
SATELLITE OPEN SOURCES PUBLISHED IN 1964. IT IS
THE SECOND IN A SERIES DEALING WITH SOVIET-BLOC
DEVELOPMENTS IN ROCKETPROPELLANT TECHNOLOGY AND
CONSISTS OF ABSTRACTS, SUMMARIES, REVIEWS, AND
CURRENT DATA FROM THE ATD PRESS AND SCAN,
SUPPLEMENTED BY THE COMPILER'S ANNOTATIONS OF
PERTINENT ENTRIES NOT COVERED BY THE FOREMENTIONED
ATD PUBLICATIONS. THE SYSTEMATIC ARRANGEMENT OF
ALL AVAILABLE MATERIALS GIVES THE READER THE
POTENTIAL ADVANTAGE OF TREND DETERMINATION. THE
GENERAL SUBJECT OF LIQUID AND SOLID PROPELLANTS
INCLUDES THE CHEMISTRY AND TECHNOLOGY OF
MANUFACTURING, PHYSICAL AND CHEMICAL PROPERTIES, USE,
COMBUSTION BEHAVIOR, CORROSIVENESS, STABILITY,
TOXICITY, STORAGE, AND SAFETY OF PROPELLANTS AND
THEIR COMPONENTS. OF 212 ENTRIES, 15 WERE BASED ON
BOOKS AND APPEAR AS CHAPTER I TOGETHER WITH AN
AUTHOR INDEX. CHAPTER II CONTAINS 55
ABSTRACTS ON LIQUID PROPELLANTS. IN CHAPTER III
38 ENTRIES CONCERN SOLID PROPELLANTS. CHAPTER IV
HAS 16 ENTRIES ON HIGH ENERGY FUELS AND PROPELLANTS
WHILE CHAPTER V CONTAINS 7 ENTRIES ON ADVANCED
ENERGY SOURCES. CHAPTER VI WITH 81 ENTRIES
COVERS COMBUSTION PROBLEMS IN GENERAL INCLUDING AIR-
BREATHING SYSTEMS. CHAPTERS II-VI EACH INCLUDE
AN AUTHOR INDEX AND AN INDEX OF ASSOCIATIONS.
(AUTHOR: (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-631 638 21/2 14/2
ESSO DEVELOPMENT CO LTD ABINGDON (ENGLAND)
MEASUREMENT OF BURNING VELOCITY -A SURVEY-, (U)
APR 63 SOP FRISTROM, R. H. I
REPT. NO. TG-481,
CONTRACT: NOW-62-0604-C,

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (BURNING RATE, MEASUREMENT),
FLAMES, FLOW VISUALIZATION, TRACER STUDIES,
PARTICLES, PITOT TUBES, FLAME PROPAGATION,
PHOTOGRAPHIC ANALYSIS, REVIEWS, (U)
BIBLIOGRAPHIES (U)
IDENTIFIERS: BURNERS, FLAME KERNEL METHODS (U)

EXPERIMENTAL METHODS OF DETERMINING BURNING
VELOCITY ARE REVIEWED. TOPICS INCLUDE: PARTICLE
TRACT METHOD, PITOT TUBE MEASUREMENTS, FLAME KERNEL
METHODS, AND BURNER METHODS OF MEASURING BURNER
VELOCITY. AN ANNOTATED BIBLIOGRAPHY OF (U)
REPRESENTATIVE WORKS IS APPENDED.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-652 406 21/3
FAIRCHILD MILLER CORP FARMINGDALE N Y REPUBLIC AVIATION
DIV
PULSED PLASMA STUDIES. (U)
DESCRIPTIVE NOTE: FINAL REPT., MAY 59-JUN 66.
FEB 67 16P MCIVER, JOHN J. I
REPT. NO. FHR-3449, PCD-TR-67-4
CONTRACT: NONR-2851(00)
PROJ: RR-010-04-01

UNCLASSIFIED REPORT

DESCRIPTORS: (*PLASMA ENGINES, *THRUST VECTOR
CONTROL SYSTEMS), SATELLITES(ARTIFICIAL),
ELECTRIC PROPULSION, PLASMA JETS, ELECTRIC
DISCHARGES, BIBLIOGRAPHIES (U)
IDENTIFIERS: E-2 PLASMA ENGINE (U)

THIS REPORT COVERS THE CHRONOLOGICAL SERIES OF
EVENTS LEADING UP TO THE INTEGRATION OF A PULSED
PLASMA ELECTRIC THRUSTER SYSTEM INTO A NAVAL
RESEARCH LABORATORY SATELLITE, PAYLOAD 140.
THE PERIOD COVERED IS FROM APRIL 1964 TO JUNE
1966, AND THE REPORT DESCRIBES THE PROGRESS AND
PROBLEMS ASSOCIATED WITH THE SYSTEM INTEGRATION AND
IN ADDITION DESCRIBES THE CASE HISTORY OF THE
ATTEMPTS TO OBTAIN AIR FORCE SUPPORT IN OBTAINING
A LAUNCH VEHICLE FOR THE PAYLOAD. THE LAST PORTION
OF THE REPORT COVERS THE BIBLIOGRAPHY OF ALL
PUBLICATIONS GENERATED DIRECTLY OR PARTIALLY UNDER
THIS CONTRACT SINCE 1959. (AUTHOR) (U)

SPACE TECHNOLOGY

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-403 825

NORTH AMERICAN AVIATION INC DOWNEY CALIF
ATTITUDE CONTROL: A BIBLIOGRAPHY.

(U)

APR 63 46P

REPT. NO. SID63 232

UNCLASSIFIED REPORT

DESCRIPTORS: •ATTITUDE CONTROL SYSTEMS,
•BIBLIOGRAPHIES, SATELLITES (ARTIFICIAL),
SPACECRAFT, TORQUE, CONTROL JETS, VERNIER
ROCKET MOTORS, SPIN-STABILIZED AMMUNITION,
MAGNETIC FIELDS, GRAVITY, SOLAR RADIATION,
AERODYNAMIC CONFIGURATIONS, TERRESTRIAL
MAGNETISM.

(U)

THIS REPORT IS A SURVEY OF ACADEMIC LITERATURE ON
THE ATTITUDE CONTROL OF SATELLITES AND SPACE
VEHICLES. ONLY MATERIAL PUBLISHED IN ENGLISH
BETWEEN THE YEARS 1958 AND 1962 IS INCLUDED.
(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-404 259

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
METEORIDS AS A POSSIBLE HAZARD TO SPACE VEHICLE
OPERATIONS: AN ANNOTATED BIBLIOGRAPHY,

(U)

MAY 63 41P ROS, COMP. BY CHARLES G. I

REPT. NO. 3 35 63 11

CONTRACT: AF04 647 787

UNCLASSIFIED REPORT

DESCRIPTORS: *SPACE FLIGHT, BIBLIOGRAPHIES,
SPACE ENVIRONMENTAL CONDITIONS, AVIATION SAFETY,
ASTRONAUTICS, HAZARDS, METEORITES.

(U)

A BIBLIOGRAPHY IS PRESENTED OF METEORIDS AS A
POSSIBLE HAZARD TO SPACE VEHICLE OPERATIONS.
CITATIONS TO METEORS AND OTHER INTERPLANETARY
DEBRIS HAVE BEEN INCLUDED WHEN THE MATERIAL WAS OF
RELEVANCE TO METEORIDS AS WELL. CITATIONS TO
COMBINED ENVIRONMENTAL PARAMETERS AFFECTING THE
RELIABILITY OF SPACE VEHICLES IN FLIGHT HAVE ALSO
BEEN INCLUDED WHEN METEORIDS CONSTITUTED ONE OF THE
PARAMETERS. THE PERIOD COVERED IS FROM 1956
THROUGH 1962, WITH A FEW EARLIER CITATIONS.

(AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-416 078

MITRE CORP BEDFORD MASS
SPACECRAFT STABILIZATION AND ATTITUDE CONTROL. HOW
DO TODAY'S OPERATIONAL AND CONCEPTUAL SYSTEMS COMPARE
IN WEIGHT, POWER AND RELIABILITY, (U)
BP CHIN, T. H. I

MONITOR: ESD

UNCLASSIFIED REPORT
REPRINT FROM SPACE AERONAUTICS, PP. 88-93, 144-145,
1963. (COPIES NOT SUPPLIED BY DDC)
SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SPACECRAFT, FLIGHT CONTROL SYSTEMS),
(*BIBLIOGRAPHY, ATTITUDE CONTROL SYSTEMS), (*ATTITUDE
CONTROL SYSTEMS, SPACECRAFT), (*STABILIZATION
SYSTEMS, SPACECRAFT), WEIGHT, PERFORMANCE
(ENGINEERING), RELIABILITY, GRAVITY (ARTIFICIAL) (U)

A REVIEW IS PRESENTED OF CURRENT OPERATIONAL AND
CONCEPTUAL SYSTEMS FOR SPACECRAFT STABILIZATION AND
ATTITUDE CONTROL. (U)

UNCLASSIFIED

000362

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-430 814

LIBRARY OF CONGRESS WASHINGTON D C SCIENCE AND TECHNOLOGY
DIV

BIBLIOGRAPHY OF BIOREGENERATING SYSTEMS FOR
EXTRATERRESTRIAL HABITATION. (U)

DESCRIPTIVE NOTE: REPT. 15 AUG 62-15 SEP 63,
NOV 63 10CP SPIEGLER, PAUL E. I

CONTRACT: AF33 657 62 397

PROJ: 7164

TASK: 716405

MONITOR: AMRL

TDR 3 121

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*LIFE SUPPORT, BIBLIOGRAPHIES),
(*EXTRATERRESTRIAL BASES, LIFE SUPPORT), (*BIOLOGY,
REGENERATION), ECOLOGY, PHYSIOLOGY, SANITARY
ENGINEERING, FOOD, ALGAE, PLANTS (BIOLOGY), TISSUE
(BIOLOGY), LABORATORY ANIMALS, MOON, SPACE FLIGHT,
NUTRITION, TISSUE CULTURE, TEST METHODS, TOXICITY,
PHOTOSYNTHESIS, BACTERIA, FUNGI, SPACE PROBES (U)
IDENTIFIERS: GAS EXCHANGE MECHANISMS, 1963,
BIOREGENERATING SYSTEMS, HABITATION, AEROSPACE
SYSTEMS, BIOLOGICAL SYSTEMS (U)

THIS BIBLIOGRAPHY IS A REPRESENTATIVE SAMPLING WITH
THE WORLD'S LITERATURE COVERING THE YEARS 1959 TO THE
PRESENT CONCERNING THE VARIOUS ASPECTS OF
EXTRATERRESTRIAL HABITATION. THE 440 REFERENCES
DEAL WITH BOTH THE PHYSIOLOGY AND ECOLOGY OF
BIOREGENERATING SYSTEMS FOR SPACE TRAVEL AND THE
SPECIFIC HUMAN REQUIREMENTS FOR EXTRATERRESTRIAL
HABITATION. THE SECTION ON THE BIOLOGY OF
BIOREGENERATING SYSTEMS CONTAINS PAPERS ON WASTE
MANAGEMENT AND RE-UTILIZATION, GAS EXCHANGE
MECHANISMS USING DIFFERENT PLANTS, CULTURE TECHNIQUES
FOR PRODUCING FOOD BY UTILIZING TISSUES OR PLANTS,
EDIBILITY OF ALGAE AND VARIOUS ANIMALS, TOXICOLOGICAL
ASPECTS OF WASTE AND MATERIALS OF CONSTRUCTION, AND
ENVIRONMENTAL CONDITIONS ON THE MOON. PAPERS
DEALING WITH SPECIFIC HUMAN REQUIREMENTS INCLUDE
THOSE ON NUTRITION, FOOD TECHNOLOGY, AND VARIOUS
TOPICS OF PERSONAL HYGIENE AND SANITATION.
(AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-431 728

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

FUTURE LUNAR MISSIONS. REVIEW OF SOVIET AND SOVIET-
BLOC LITERATURE. (U)

JAN 64 246P

MONITOR: AID P64 1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (LUNAR BASES, BIBLIOGRAPHIES), (LUNAR
CRAFT, BIBLIOGRAPHIES), (LUNAR TRAJECTORIES,
BIBLIOGRAPHIES), DOCUMENTATION, REPORTS, LAUNCHING,
RENDEZVOUS TRAJECTORIES, SPACECRAFT DOCKING, ORBITAL
TRAJECTORIES, SCIENTIFIC SATELLITES, SPACE STATIONS,
LUNAR PROBES, ASTRONOMICAL OBSERVATORIES, ASTRONAUTS,
ASTRONAUTICS, PUBLIC OPINION, MANNED SPACECRAFT, SPACE
CAPSULES (U)
IDENTIFIERS: 1964, USSR (U)

THIS REPORT COLLECTS MATERIALS ILLUSTRATING
INFORMED SOVIET DISCUSSION OF MANNED LUNAR FLIGHT
IN THE PERIOD IMMEDIATELY PRECEDING KHRUSHCHEV'S 26
OCT 1963 DISAVOWAL OF A CRASH MAN-ON-THE-MOON
PROGRAM. ITS PURPOSE IS TO ESTABLISH THE POSSIBLE
PATTERNS OF THOUGHT OF SOVIET SCIENTISTS AND
AUTHORITATIVE NEWS COMMENTATORS BY THE USE OF
SELECTED STATEMENTS. SINCE NO COLLECTION IN THIS
FIELD CAN BE THOROUGHLY EXHAUSTIVE, THE CRITERION FOR
SELECTION OF THE INDIVIDUALS TO BE CITED AND THE
CITATIONS WAS THEIR REPRESENTATIVE NATURE. WITH
CERTAIN EXCEPTIONS FORCED BY TIME LIMITATIONS, BIB-
BIBLIOGRAPHIC ANNOTATIONS ARE PROVIDED. IN ORDER
TO COMMUNICATE MOST FULLY THE IMPACT OF THE ORIGINAL,
THE STATEMENTS ARE TRANSLATED RATHER THAN
PARAPHRASED. IN MOST CASES THE MATERIALS QUOTED
ARE FROM THE 1961 TO 1963 PERIOD, ALTHOUGH EARLIER
STATEMENTS ARE OCCASIONALLY REPRODUCED WHEN NECESSARY
TO ESTABLISH THE PATTERN. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-433 656

ARMY MISSILE COMMAND REDSTONE ARSENAL ALA
MATERIALS FOR RE-ENTRY. A SELECTED BIBLIOGRAPHY,
1959-1963,

(U)

MAR 64

75P

NIEBERLEIN, VERNON A. I

PROJ: 1A023301A110

MONITOR: AMC RA

RR TR64 I

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•REENTRY VEHICLES, REFRACTORY
MATERIALS), (•REFRACTORY METALS + ALLOYS,
•REFRACTORY MATERIALS), HEAT-RESISTANT PLASTICS,
CERAMIC MATERIALS, CERMETS, PYROLYTIC GRAPHITE,
HEAT-RESISTANT METALS + ALLOYS, HEAT SHIELDS,
COOLING, HEAT TRANSFER, ABLATION

(U)

IDENTIFIERS: 1964

(U)

A SELECTED BIBLIOGRAPHY COVERING THE YEARS 1959
THROUGH 1963 HAS BEEN ABSTRACTED. MATERIALS FOR
RE-ENTRY, AND CLOSELY RELATED WORK ON RE ENTRY
ENVIRONMENT, MATERIALS REQUIREMENTS, AND COOLING
MECHANISMS ARE INCLUDED. THE BIBLIOGRAPHY IS
INDEXED BY SUBJECT AND AUTHOR. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-438 720

AEROSPACE CORP EL SEGUNDO CALIF

BIBLIOGRAPHY OF REPORTS.

(U)

DESCRIPTIVE NOTE; FINAL REPT., 1 JUL 62-30 JUN 63,

APR 64 72P PEER, B. H. IKEASBEY, S. T. ;

REPT. NO. CSR169 9990FBR1

CONTRACT: AFO4 695 169

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SUPERSEDES REPORT NOS. CSR169 9990

QBR2, AD-297 864, AND CSR169 9990 QBR3, AD-402

241.

DESCRIPTORS: (*BIBLIOGRAPHIES, REPORTS),
(*REPORTS, INDEXES), (*MANNED SPACECRAFT,
SPACE CAPSULES, LAUNCH VEHICLES(AEROSPACE),
SATELLITES(ARTIFICIAL), GROUND SUPPORT
EQUIPMENT, COMMUNICATION SATELLITES, GUIDED
MISSILES(SURFACE-TO-SURFACE), REENTRY VEHICLES,
SPACECRAFT

(U)

IDENTIFIERS: ATLAS, GEMINI, MERCURY

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-466 884

LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV

AEROSPACE INSTRUMENTATION.

(U)

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

JUL 65 64P

REPT. NO. ATD-P-65-49

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SCIENTIFIC SATELLITES,
BIBLIOGRAPHIES), (*BIBLIOGRAPHIES, SCIENTIFIC
SATELLITES), INSTRUMENTATION, MAGNETOMETERS,
GRAVITY, GAS ANALYSIS, METEORITES, DETECTION,
COSMIC RAYS, ELECTROMAGNETIC WAVES, PRESSURE
GAGES, RADIATION MEASUREMENT SYSTEMS, SPACE
ENVIRONMENTAL CONDITIONS, MEASUREMENT, USSR,
AIRBORNE, SPACEBORNE

(U)

IDENTIFIERS: GRAVITY METERS, MICROMETEORITES

(U)

THIS REPORT IS THE FIRST IN A SERIES REVIEWING
SOVIET DEVELOPMENTS IN AEROSPACE INSTRUMENTATION.
ABSTRACTS CONTAINED IN THE REPORT WERE SELECTED
FROM SOVIET OPEN LITERATURE PUBLISHED IN 1964 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 78 ABSTRACTS ARE ARRANGED
ALPHABETICALLY BY AUTHOR WITHIN EACH OF THE FOLLOWING
CATEGORIES: MAGNETOMETERS, GRAVITY GRADIENT METERS,
GAS COMPOSITION ANALYSIS, MICROMETEORITE DETECTION,
COSMIC AND CORPUSCULAR RADIATION DETECTION,
ELECTROMAGNETIC RADIATION DETECTION, AND PRESSURE
SENSORS. A BIBLIOGRAPHY IS PRESENTED AT THE END OF
THE REPORT. (AUTHOR)

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-468 532

REDSTONE SCIENTIFIC INFORMATION CENTER REDSTONE ARSENAL
ALA

SATELLITE ORBIT DETERMINATION. (U)

DESCRIPTIVE NOTE: BIBLIOGRAPHY FOR 1956-MAY 65,

JUN 65 118P DENHAM, DALE I

REPT. NO. RSIC-415

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•ORBITAL TRAJECTORIES,
BIBLIOGRAPHIES), (•BIBLIOGRAPHIES, ORBITAL
TRAJECTORIES), (•RADAR TRACKING,
SATELLITES(ARTIFICIAL)), RADAR STATIONS,
SIMULATION, MATHEMATICAL PREDICTION,
PROGRAMMING(COMPUTERS), CELESTIAL MECHANICS,
TRACKING, DETERMINATION (U)
IDENTIFIERS: SATELLITE TRACKING SYSTEMS (U)

THIS BIBLIOGRAPHY COVERS THE FOLLOWING: (1)
METHODS OF USE AND COMBINE TRACKING DATA FROM RADAR
AND OTHER TRACKING SYSTEMS FOR ORBIT DETERMINATION,
AND (2) THE INFLUENCE OF TRACKING STATION
LOCATION, NUMBER OF STATIONS, AND TIME OF TRACKING ON
THE ACCURACY OF ORBIT DETERMINATION. IN ADDITION TO
THE ABOVE, THE CITED REFERENCES COVER ANALYSIS AND
SIMULATION OF ORBITS; MATHEMATICS AND PARAMETERS OF
ORBITS; THEORY AND TECHNIQUES; PREDICTION AND
ACCURACIES; PROGRAMMING AND COMPUTERS; ERROR
ANALYSIS; EVALUATION OF GROUND COVERAGE; SYSTEMATIC
ERRORS; AIRBORNE PLATFORMS; SPACE DYNAMICS; SELF-
CONTAINED ORBIT DETERMINATION TECHNIQUES; AND SPACE-
TIME. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-606 382

RAND CORP SANTA MONICA CALIF

SPACE LAW BIBLIOGRAPHY,

(U)

MAY 57 9P

HOGAN, JOHN C. I

REPT. NO. P-1087

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (•SPACE FLIGHT, LAW), (•LAW, UPPER

ATMOSPHERE), (•UPPER ATMOSPHERE, LAW),

(•BIBLIOGRAPHIES, LAW), SOCIAL SCIENCES, INDEXES

(U)

IDENTIFIERS: SPACE LAW, AIRSPACE

(U)

ONLY SINCE THE END OF WORLD WAR II HAS THERE BEEN A SERIOUS INTEREST IN THE PROBLEMS OF LAW AND ACTIVITIES IN THE UPPER ATMOSPHERE. SCHOLARLY ARTICLES ON THIS SUBJECT HAVE BEEN PUBLISHED RECENTLY BY LAWYERS IN CANADA, ENGLAND, FRANCE, GERMANY, AND THE USSR, AND THERE ARE MATERIALS IN THE AMERICAN LAW REVIEWS WHICH APPLY--EITHER DIRECTLY OR BY ANALOGY--TO MAN'S ACTIVITIES ABOVE THE SURFACE OF THE EARTH. THE IMMEDIATE PROBLEM IS STATE SOVEREIGNTY IN THE UPPER ATMOSPHERE. SOME ATTENTION HAS ALSO BEEN GIVEN TO THE LONGRANGE PROBLEM OF A SYSTEM OF JURISPRUDENCE FOR ACTIVITIES IN SPACE.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-607 628

TRW SPACE TECHNOLOGY LABS LOS ANGELES CALIF

SOFT LUNAR LANDING.

(U)

DESCRIPTIVE NOTE: STL BIBLIOGRAPHY,

MAY 59 21P

ANDREWS, K. B. ISLOANE, M. N. I

REPT. NO. STL-B-8 , STL/GM-59-5111-12

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPT. ON A LITERATURE SURVEY OF
UNCLASSIFIED REPORTS.

DESCRIPTORS: (*SOFT LANDINGS, BIBLIOGRAPHIES),
(*ASTRONAUTICS, BIBLIOGRAPHIES, (*SPACE FLIGHT,
BIBLIOGRAPHIES), SPACE ENVIRONMENTAL CONDITIONS, SPACE
NAVIGATION, EXTRATERRESTRIAL BASES, INTERPLANETARY
TRAJECTORIES, SPACECRAFT, PHOTOGRAPHY, SPACE PROBES,
DOPPLER SYSTEMS, MANNED SPACECRAFT, SPACE PROPULSION,
FLIGHT CONTROL SYSTEMS, MAGNETIC FIELDS, RADAR,
TERMINAL GUIDANCE, INSTRUMENTATION, DESIGN, MOON (U)

SOFT LUNAR LAND/NG.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-609 245

GENERAL ELECTRIC CO PHILADELPHIA PA MISSILE AND SPACE
DIV

COMMUNICATION SATELLITE PROJECT ADVENT
BIBLIOGRAPHY, (U)

APR 61 27P SADIN, S. R. IWITTNER, H. H. I

REPT. NO. R61SD4227

CONTRACT: AFO4 647 476

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTES:

DESCRIPTORS: (*BIBLIOGRAPHIES, COMMUNICATION
SATELLITES (ACTIVE)), (*COMMUNICATION SATELLITES
(ACTIVE), BIBLIOGRAPHIES), REPORTS, SPECIFICATIONS,
LAUNCHING SITES, DESIGN, ORBITAL TRAJECTORIES (U)
IDENTIFIERS: ADVENT PROJECT (U)

THE BIBLIOGRAPHY OF COMMUNICATION SATELLITE
PROJECT ADVENT IS SUBMITTED. IT PRESENTS A
LISTING OF REPORTS CONTRIBUTING TO THE TECHNICAL
PROGRESS OF THE PROGRAM. THE BIBLIOGRAPHY WILL BE
REVISED BIMONTHLY DURING THE COURSE OF THE CONTRACT. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-613 601

NATIONAL ACADEMY OF SCIENCES WASHINGTON D C SPACE SCIENCE
BOARD

BIBLIOGRAPHY ON SPACE SCIENCES (UNITED STATES,
1960).

(U)

DESCRIPTIVE NOTE; REVISED,

60 74P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: UNITED STATES SPACE SCIENCE
PROGRAM: REPORT TO COSPAR, APPENDIX V, FLORENCE,
ITALY APR 61. SEE ALSO AD-613 600.

DESCRIPTORS: (ASTRONAUTICS, BIBLIOGRAPHIES),
TRAJECTORIES, SATELLITES (ARTIFICIAL), TRACKING,
TELEMETER SYSTEMS, INSTRUMENTATION, SPACE
ENVIRONMENTAL CONDITIONS, GRAVITY, GEODESICS,
ATMOSPHERE, MAGNETIC FIELDS, PARTICLES, METEORITES,
COSMIC RAYS, SUN, MOON, PLANETS, ASTRONOMY, SPACE
BIOLOGY, UNITED STATES

(U)

CONTENTS: ORBITS, TRAJECTORIES, AND OTHER
MOTIONS TRACKING AND TELEMETRY INSTRUMENTATION
AND TECHNIQUES INTERACTION BETWEEN SPACE VEHICLE
AND MEDIUM GRAVITY AND GEODESY ATMOSPHERIC
COMPOSITION AND STRUCTURE PARTICLES AND MAGNETIC
FIELDS METEORITES, COSMIC DUST, AND TEKTITES THE
SUN THE MOON AND PLANETS GENERAL ASTRONOMY LIFE
SCIENCES.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-613 602

NATIONAL ACADEMY OF SCIENCES WASHINGTON D C SPACE SCIENCE
BOARD

BIBLIOGRAPHY ON SPACE SCIENCES (UNITED STATES,
1961).

(U)

61 80P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-613 601.

DESCRIPTORS: (•ASTRONAUTICS, BIBLIOGRAPHIES),
TRAJECTORIES, SATELLITES (ARTIFICIAL), TRACKING,
TELEMETRY SYSTEMS, INSTRUMENTATION, SPACE
ENVIRONMENTAL CONDITIONS, GRAVITY, GEODESICS,
ATMOSPHERE, MAGNETIC FIELDS, PLASMA MEDIUM, PARTICLES,
COSMIC RAYS, METEORITES, SUN, MOON, PLANETS,
ASTRONOMY, SPACE BIOLOGY, UNITED STATES

(U)

CONTENTS: ORBITS, TRAJECTORIES, AND OTHER MOTIONS
TRACKING AND TELEMETRY INSTRUMENTATION AND
TECHNIQUES INTERACTION BETWEEN SATELLITE AND MEDIUM
GRAVITY AND GEODESY ATMOSPHERIC COMPOSITION AND
STRUCTURE PARTICLES AND MAGNETIC FIELDS
(INCLUDING INTERPLANETARY MATTER, PLASMAS,
AURORAE, ETC.) METEORITES, COSMIC DUST, AND
TEXTILES THE SUN (INCLUDING NON-TERRESTRIAL
PHENOMENA ASSOCIATED WITH THE SUN) THE MOON AND
PLANETS GENERAL ASTRONOMY LIFE SCIENCES.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-613 603

NATIONAL ACADEMY OF SCIENCES WASHINGTON D C SPACE SCIENCE
BOARD

BIBLIOGRAPHY ON SPACE SCIENCES (UNITED STATES,
1962).

(U)

62 135P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-613 602.

DESCRIPTORS: (ASTRONAUTICS, BIBLIOGRAPHIES),
TRAJECTORIES, SATELLITES (ARTIFICIAL), TRACKING,
TELEMETRY SYSTEMS, INSTRUMENTATION, SPACE
ENVIRONMENTAL CONDITIONS, GRAVITY, GEODESICS,
ATMOSPHERE, PARTICLES, MAGNETIC FIELDS, METEORITES,
COSMIC RAYS, SUN, MOON, PLANETS, ASTRONOMY, SPACE
BIOLOGY, UNITED STATES

(U)

CONTENTS: ORBITS, TRAJECTORIES, AND OTHER MOTIONS
TRACKING AND TELEMETRY INSTRUMENTATION AND
TECHNIQUES INTERACTION BETWEEN SPACE VEHICLE AND
MEDIUM GRAVITY AND GEODESY ATMOSPHERIC
COMPOSITION AND STRUCTURE PARTICLES AND MAGNETIC
FIELDS METEORITES, COSMIC DUST, AND TEXTILES THE
SUN THE MOON AND PLANETS GENERAL ASTRONOMY LIFE
SCIENCES.

(U)

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000362

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-613 604

NATIONAL ACADEMY OF SCIENCES WASHINGTON D C SPACE SCIENCE
BOARD

BIBLIOGRAPHY ON SPACE SCIENCES (UNITED STATES,
1963).

(U)

DESCRIPTIVE NOTE: APPENDIX 5,
63 153P

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-613 603.

DESCRIPTORS: (*ASTRONAUTICS, BIBLIOGRAPHIES),
TRAJECTORIES, SATELLITES (ARTIFICIAL), TRACKING,
TELEMETRY SYSTEMS, INSTRUMENTATION, SPACE
ENVIRONMENTAL CONDITIONS, GRAVITY, GEODESICS,
ATMOSPHERE, MAGNETIC FIELDS, PARTICLES, METEORITES,
COSMIC RAYS, SUN, MOON, PLANETS, ASTRONOMY, SPACE
BIOLOGY, UNITED STATES

(U)

CONTENTS: ORBITS, TRAJECTORIES, AND OTHER MOTIONS
TRACKING AND TELEMETRY INSTRUMENTATION AND
TECHNIQUES INTERACTION BETWEEN SPACE VEHICLE AND
MEDIUM GRAVITY AND GEODESY ATMOSPHERIC
COMPOSITION AND STRUCTURE PARTICLES AND MAGNETIC
FIELDS METEORITES, COSMIC DUST, AND TEXTILES THE
SUN THE MOON AND PLANETS GENERAL ASTRONOMY
LIFE SCIENCES.

(U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-615 025

RAND CORP SANTA MONICA CALIF

A SELECTED BIBLIOGRAPHY OF RAND PUBLICATIONS ON SPACE
RESEARCH, 1960-1964, (U)

APR 65 76P DORDICK, H. S. ISTURAK, J. T. I

REPT. NO. RM-4508 (ABRIDGED)

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*ASTRONAUTICS, BIBLIOGRAPHIES), SPACE
FLIGHT, SPACE PROBES, ECONOMICS, POLITICAL SCIENCE,
INTERPLANETARY TRAJECTORIES, LUNAR PROBES, LUNAR
TRAJECTORIES, SATELLITES (ARTIFICIAL), ABSTRACTING,
REPORTS, SPACE ENVIRONMENTAL CONDITIONS (U)

THE PRESENT IS DIVIDED INTO TWO MAIN PARTS: (1)
A CONTENTS SECTION SUB-DIVIDED INTO EIGHT SUBJECT
CATEGORIES-ECONOMIC AND POLITICAL IMPLICATIONS
OF SPACE, INTERPLANETARY FLIGHT, LUNAR
FLIGHT, SATELLITES, SPACE APPLICATIONS,
SPACE OPERATIONS, SPACE SCIENCE, AND SPACE
TECHNOLOGY. TITLES OF RELATIVE PUBLICATIONS ARE
LISTED SERIALLY BY TYPE UNDER ONE OR MORE OF THESE
CATEGORIES. (2) A SECTION CONSISTING OF
ABSTRACTS OF THE PUBLICATIONS ARRANGED NUMERICALLY BY
TYPE: BOOKS, REPORTS, RAND MEMORANDA,
PAPERS, AND TRANSLATIONS. (AUTHOR) (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-615 264

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
LMSC PUBLISHED CONTRIBUTIONS 1964 IMPRINTS. (U)

DESCRIPTIVE NOTE: CITATION BIBLIOGRAPHY,

APR 65 22P REINBURG, J. T. IKOZUMPLIK, W.

A. I

REPT. NO. CB-65-1

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*BIBLIOGRAPHIES, SPACE FLIGHT), (*SPACE
FLIGHT, GUIDED MISSILES), PHYSICS, MATERIALS,
ELECTRONICS, ENGINEERING, NUCLEAR PHYSICS, GEOPHYSICS,
MECHANICS, ASTROPHYSICS, METALLURGY, CRYOGENICS, SOLID
STATE PHYSICS, THERMODYNAMICS, FLUID MECHANICS,
CERAMIC MATERIALS, ATMOSPHERE (U)

PAPERS PUBLISHED BY AUTHORS IN LOCKHEED
MISSILES AND SPACE COMPANY DURING 1964 ARE
LISTED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-623 163

LOCKHEED MISSILES AND SPACE CO SUNNYVALE CALIF
WEIGHTLESSNESS SIMULATION USING WATER IMMERSION
TECHNIQUES: AN ANNOTATED BIBLIOGRAPHY, (U)
JUL 65 55P ABBOTT, HELEN M. IDUDDY, JOHN

H. :

REPT. NO. 5-24-65-3 ,SB-65-2

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (WEIGHTLESSNESS, SIMULATION),
BIBLIOGRAPHIES, UNDERWATER, SPACE MEDICINE,
HUMANS, STRESS(PHYSIOLOGY), ACCELERATION
TOLERANCE, IMPACT SHOCK, HUMAN ENGINEERING,
STRESS(PSYCHOLOGY) (U)

THE COMPILATION CONTAINS 97 SELECTED REFERENCES
PERTAINING TO BIOMEDICAL AND BEHAVIORAL RESEARCH
INVOLVING IMMERSION OF HUMAN SUBJECTS. THE
REFERENCES ARE ORGANIZED UNDER THREE PRINCIPAL
TOPICS: (1) PHYSIOLOGICAL STUDIES, INCLUDING
ACCELERATION, IMPACT PROTECTION AND PHYSIOLOGICAL
RESPONSES TO WEIGHTLESSNESS SIMULATIONS, (2)
HUMAN ENGINEERING STUDIES, AND (3)
TECHNIQUES AND PERSONAL EQUIPMENT REQUIREMENTS
FOR IMMERSION STUDIES. THE REFERENCES ARE ARRANGED
ALPHABETICALLY BY AUTHOR OR TITLE UNDER EACH SEPARATE
TOPIC. AN AUTHOR INDEX IS INCLUDED AS AN AID
IN LOCATING SPECIFIC INVESTIGATORS AND PUBLICATIONS.
THE REFERENCES CITED ARE CONSIDERED TO BE THE
PRINCIPAL CONTRIBUTIONS TO THE LITERATURE DURING THE
PERIOD FROM 1951 THROUGH 1965, INCLUDING BOTH OPEN
AND GOVERNMENT SOURCES. (AUTHOR) (U)

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DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-631 293 22/3 22/1 1/1
AEROSPACE TECHNOLOGY DIV LIBRARY OF CONGRESS WASHINGTON D
C
SPACECRAFT UTILIZING THE LIFTING REENTRY TECHNIQUE.
PART II. REVIEW OF THEORETICAL STUDIES IN LIFTING
REENTRY. (U)
DESCRIPTIVE NOTE: SECT. I, COMPREHENSIVE REPT., SECT.
II, ANNOTATED BIBLIOGRAPHY.
APR 66 383P KLEIN, VICTOR I
BARATOFF, ALEXIS ISOUKHOV, IVAN M. I
REPT. NO. ATD-66-34-PT-2,
MONITOR: TT, 66-61052

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: BASED ON COMMUNIST WORLD OPEN
TECHNICAL LITERATURE, 1 JAN 57-31 DEC 64.

DESCRIPTORS: (*ATMOSPHERE ENTRY, *LIFT),
(*AERODYNAMICS, ATMOSPHERE ENTRY), (*SPACECRAFT,
ATMOSPHERE ENTRY), BIBLIOGRAPHIES,
ASTRONAUTICS, AERONAUTICS, AEROSPACE CRAFT,
AERODYNAMIC HEATING, THERMAL STRESSES, SHOCK
WAVES, ABLATION, HEAT SHIELDS, METEORITES,
HAZARDS, USSR (U)

THIS REPORT (COMPREHENSIVE REPORT WITH ANNOTATED
BIBLIOGRAPHY) IS BASED ON SOVIET-SATELLITE OPEN
SOURCES PUBLISHED 1957-1964, ALTHOUGH SOME EARLIER
ARTICLES ARE INCLUDED. SECTION I IS A
COMPREHENSIVE REVIEW OF SOURCES ON THEORETICAL AND
EXPERIMENTAL STUDIES OF PROBLEMS IN FIELDS OF SPACE
SCIENCES, I.E., PROBLEMS OF LIFTING AND BALLISTIC
HYPERVELOCITY FLIGHT, AND ATMOSPHERIC REENTRY
TECHNIQUES. THERE ARE FOUR PARTS FOLLOWING THE
INTRODUCTION: GROUP A. HIGH-SPEED AERODYNAMICS
AND GAS DYNAMICS; GROUP B. HIGH-SPEED
AEROTHERMODYNAMICS; GROUP C. HIGH-SPEED FLIGHT
MECHANICS; GROUP D. STRENGTH OF FLIGHT -VEHICLE
COMPONENTS (THIN AND SANDWICH PLATES AND SHELLS).
A BRIEF CONCLUSION IS GIVEN. IN WRITING THIS
REPORT ARTICLES AND MONOGRAPHS HAVING A CLOSER
RELATION TO THE REENTRY PROBLEM AND SHOWING EITHER AN
ORIGINAL APPROACH TO THE PROBLEM OR A NEW METHOD
APPLIED TO ITS SOLUTION WERE SELECTED FROM THE
BIBLIOGRAPHY AND USED. SECTION II IS AN
ANNOTATED BIBLIOGRAPHY CONTAINING 861 ENTRIES
ARRANGED BY SUBJECT IN A MANNER SIMILAR TO SECTION
I: GROUP A. AEROMECHANICS OF HIGH-SPEED FLOWS
(451 ENTRIES); GROUP B. AEROTHERMODYNAMICS OF
HIGH-SPEED FLOWS (168 ENTRIES); GROUP C.
FLIGHT MECHANICS (53 ENTRIES); GROUP D.

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-632 761 22/2 22/1 22/3 3/2
TRW SYSTEMS REDONDO BEACH CALIF
THE SOVIET SPACE PROGRAM: A SELECTIVE
BIBLIOGRAPHY. (U)
DESCRIPTIVE NOTE; SPECIAL LITERATURE SURVEY NO. 16,
MAR 66 J3P MAGNOLIA, L. R. I
REPT. NO. 9990-7235-TO-000,
MONITOR: TT, 66-61250

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE:

DESCRIPTORS: (*SPACE FLIGHT, USSR),
(*BIBLIOGRAPHIES, SPACE FLIGHT), MOON,
WEIGHTLESSNESS, SATELLITES(ARTIFICIAL),
SPACECRAFT, SPACE BIOLOGY, GEOPHYSICS (U)

THE BIBLIOGRAPHY CONSISTS OF 121 ITEMS, ARRANGED
ALPHABETICALLY BY AUTHOR OR BY THE ISSUING AGENCY. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-641 973 22/1

TRW SYSTEMS REDONDO BEACH CALIF

MANNED EXPLORATION, COLONIZATION AND EXPLOITATION OF
THE LUNAR SURFACE; A SELECTIVE BIBLIOGRAPHY. (U)

DESCRIPTIVE NOTE: SPECIAL LITERATURE SURVEY NO. 26,

OCT 66 15P MAGNOLIA, L. R. I

REPT. NO. 99900-6045-T000

UNCLASSIFIED REPORT

DESCRIPTORS: (LUNAR ENVIRONMENT,
BIBLIOGRAPHIES), LUNAR BASES, LUNAR CRAFT,
LUNAR SURFACE VEHICLES, ASTRONAUTICS, MANNED,
MOON, SURVIVAL (U)

THE REPORT LISTS 124 REFERENCES WHICH ARE ALL
AVAILABLE TO THE PUBLIC. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-645 072 22/3 20/4
LIBRARY OF CONGRESS WASHINGTON D C AEROSPACE TECHNOLOGY
DIV
SPACECRAFT UTILIZING THE LIFTING AND BALLISTIC
REENTRY TECHNIQUES. PART II. REVIEW OF THEORETICAL
STUDIES IN LIFTING AND BALLISTIC REENTRY, (U)
AUG 66 186P KLEIN, VICTOR I
BARATOFF, ALEXIS I
REPT. NO. ATD-66-106
MONITOR: TT 67-60400

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: REPT. ON SURVEYS OF FOREIGN
SCIENTIFIC AND TECHNICAL LITERATURE. SEE ALSO AD-
608 504.

DESCRIPTORS: (*ATMOSPHERE ENTRY, MANNED
SPACECRAFT), (*REENTRY VEHICLES, ATMOSPHERE
ENTRY), (*LIFTING REENTRY VEHICLES, ATMOSPHERE
ENTRY), BALLISTICS, REVIEWS, ABSTRACTS,
BIBLIOGRAPHIES, AERODYNAMICS, THERMODYNAMICS,
FLIGHT, SPACECRAFT COMPONENTS, USSR, THEORY (U)

CONTENTS: (A) HIGH-SPEED AERODYNAMICS AND GAS
DYNAMICS (SUPERSONIC AND HYPERSONIC AERODYNAMICS;
RADIATION, DISSOCIATION, IONIZATION, RELAXATION;
BOUNDARY LAYER; SHOCK WAVES; OPTIMUM AERODYNAMIC
SHAPES); (B) HIGH-SPEED AEROTHERMODYNAMICS
(AERODYNAMIC HEATING; PROTECTION AGAINST
AERODYNAMIC HEATING; EXPERIMENTAL STUDIES AND
EQUIPMENT); (C) HIGH-SPEED FLIGHT MECHANICS
(SPACE VEHICLE DESCENT; SPACECRAFT MOTION AND
CONTROL; BALLISTIC AND POWER-FLIGHT TRAJECTORIES;
METEORITE HAZARDS); (D) STRENGTH OF FLIGHT-VEHICLE
COMPONENTS (THIN AND SANDWICH PLATES AND SHELLS)
(GENERAL THEORIES OF STRENGTH; STATIC STRENGTH;
DYNAMIC STRENGTH OF PLATES AND SHELLS); (E,
MISCELLANEOUS. AN ANNOTATED BIBLIOGRAPHY (94
PAGES AND 241 ENTRIES) IS INCLUDED. (U)

UNCLASSIFIED

DDC REPORT BIBLIOGRAPHY SEARCH CONTROL NO. 000362

AD-650 581 22/2 4/1 20/6
MICHIGAN UNIV ANN ARBOR INST OF SCIENCE AND
TECHNOLOGY
REMOTE SENSING OF ENVIRONMENT. (U)
DESCRIPTIVE NOTE; PROGRESS REPT., 1 AUG 65-31 DEC 66.
APR 67 28P PRENTICE, VIRGINIA L. I
REPT. NO. 4864-12-P
CONTRACT: NONR-1224(44)
PROJ: NR-387-028

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: SEE ALSO AD-614 032.

DESCRIPTORS: (SPACE PROBES, SYMPOSIA),
(ATMOSPHERIC SOUNDING, INSTRUMENTATION),
(REMOTE CONTROL SYSTEMS, MONITORS), RADAR,
RADAR IMAGES, INFRARED IMAGES, BIBLIOGRAPHIES,
ENVIRONMENT, LASERS, MICROWAVES, INFRARED
RADIATION, ELECTROMAGNETIC WAVES (U)

THIS DOCUMENT REPORTS INVESTIGATION OF PROGRESS IN
THE UNCLASSIFIED AREAS IN THE TECHNOLOGY OF REMOTE
SENSING OF ENVIRONMENT. IT INCLUDES A SYNOPSIS OF
PROGRESS IN THE FIELD AS REPORTED AT THE FOURTH
SYMPOSIUM ON REMOTE SENSING OF ENVIRONMENT, A
DISCUSSION OF THE EXISTENCE AND AVAILABILITY OF
UNCLASSIFIED IMAGERY, AND A SUMMARY OF RELATED
ACTIVITIES. A SELECTED BIBLIOGRAPHY OF MATERIAL
PUBLISHED IN THE OPEN LITERATURE IS ALSO
INCLUDED. (U)

•AERONAUTICAL CHART AND INFORMATION
CENTER ST LOUIS MO

• • •
CATALOG OF PUBLICATIONS.
AD-609 226

•AERONAUTICAL SYSTEMS DIV WRIGHT-
PATTERSON AFB OHIO

• • •
ASD-TR61 408
SURVEY OF RECENT RESEARCH ON
FLAME EXTINGUISHMENT.
AD-435 541

•AEROSPACE CORP EL SEGUNDO CALIF

• • •
PROFESSIONAL PAPERS CLEARED FOR
POSSIBLE PUBLICATION AND/OR
PRESENTATION.
AD-600 728

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CSRI69 9990FBRI
BIBLIOGRAPHY OF REPORTS.
AD-438 720

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CSR-269 9990APP1 SUPERSEDES
PROFESSIONAL PAPERS CLEARED FOR
POSSIBLE PUBLICATION AND/OR
PRESENTATION.
AD-602 241

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CSR-269 9990PP1-PP11
PROFESSIONAL PAPERS CLEARED FOR
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PRESENTATION.
AD-602 241

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REPT. NO. CSRI69 9990QBR4
QUARTERLY BIBLIOGRAPHY OF
REPORTS PREPARED UNDER CONTRACT NO.
AF04(69) 169 (PERIOD COVERING 1
APRIL THROUGH 30 JUNE 1963).
AD-412 658

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TDR269 4303 6
BIBLIOGRAPHY ON THE USE OF
REDUNDANCY AS A MEANS OF IMPROVING
RELIABILITY.
(SSD-TDR63 375)
AD-433 614

•AEROSPACE INFORMATION DIV LIBRARY OF
CONGRESS WASHINGTON D C

• • •
PLASMA SPECTROSCOPY, ANNOTATED
BIBLIOGRAPHY.
(AID-B63 93)
AD-414 327

AID-61-165A
THERMAL STABILITY OF JET
(BIBLIOGRAPHY).
(TT-65-64076)
AD-621 883

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AID-U-64-2
ELECTROSTATIC PHOTOGRAPHY.
(TT-65-64285)
AD-622 940

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AID-U-64-4
CHARGE-CHANGING COLLISIONS IN
GASES. A DESCRIPTIVE BIBLIOGRAPHY
I.
(TT-65-64121)
AD-622 232

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AID-U-64-21
ACTIVITIES INVOLVING BLASTING
OPERATIONS: REVIEW ARTICLE AND
ANNOTATED BIBLIOGRAPHY (USSR).
(TT-65-64453)
AD-623 242

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AID-U-64-28
ULTRASONIC ATTENUATION STUDY
OF IRRADIATED MATERIALS: ANNOTA
BIBLIOGRAPHY.
(TT-65-64457)
AD-623 246

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AID-U-64-37
CURRENT INFORMATION ON FUELS
AND LUBRICANTS: COMPILATION OF
ABSTRACTS.
(TT-65-64459)
AD-623 248

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AID-U-64-38
NUCLEAR WEAPONS EFFECTS:
COMPILATION OF ABSTRACTS.
(TT-65-64460)
AD-623 249

•AEROSPACE MEDICAL RESEARCH LABS
WRIGHT-PATTERSON AFB OHIO

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AMRL-TDR63 121
BIBLIOGRAPHY OF BIOREGENERAT
SYSTEMS FOR EXTRATERRESTRIAL
HABITATION.
AD-430 814

•AEROSPACE RESEARCH LABS WRIGHT-
PATTERSON AFB OHIO

• • •
ARL-65 25
QUANTUM THEORY OF MANY-PARTI

AER-AIR

SYSTEMS,
AD-610 079

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A BIBLIOGRAPHY ON MOVING
STRIATIONS,
AD-619 027

• AEROSPACE TECHNOLOGY DIV LIBRARY OF
CONGRESS WASHINGTON D C
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STRUCTURE OF ORGANIC CRYSTALS,
(TT-65-64858)
AD-625 075

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STRUCTURE OF ORGANIC CRYSTALS,
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ATD-65-84
OPTICAL DETECTION: COMPILATION
OF ABSTRACTS,
(TT-65-64725)
AD-624 439

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ATD-65-99
COMPOUND SEMICONDUCTORS:
ANALYTICAL SURVEY,
(TT-66-60385)
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STRUCTURE OF ORGANIC CRYSTALS:
ANNOTATED BIBLIOGRAPHY,
(TT-66-60263)
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ATD-65-111
THE THEORY OF DETONATION, THE
COMBUSTION MECHANISM, AND THE
PROPERTIES OF EXPLOSIVES,
(TT-66-60085)
AD-625 326

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LIQUID AND SOLID PROPELLANTS
TECHNOLOGY: COMPILATION OF
ABSTRACTS,
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AD-628 166

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SPACECRAFT UTILIZING THE
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II. REVIEW OF THEORETICAL STUDIES
IN LIFTING REENTRY,
(TT-66-61052)

AD-631 293

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ATD-66-56
ULTRAHIGH PRESSURE STUDIES AND
CRYSTAL GROWTH TECHNIQUES:
ANALYTICAL SURVEY,
(TT-66-61772)
AD-635 495

• AIR FORCE CAMBRIDGE RESEARCH LABS L G
HANSCOM FIELD MASS
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APCRL-62 1075
THE STUDY OF HYDROMAGNETIC
PROBLEMS BEARING ON GEOMAGNETISM,
AD-417 336

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APCRL-63 160
A LITERATURE SURVEY OF THE
PURIFICATION OF ELECTRONIC
MATERIALS,
AD-412 458

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APCRL-64 202
WEATHER RADAR RESEARCH AND
STORM DYNAMICS,
AD-430 520

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A BIBLIOGRAPHY OF THE
ELECTRICALLY EXPLODED CONDUCTOR
PHENOMENON, SUPPLEMENT NO. 1,
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A BIBLIOGRAPHY OF LASER
APPLICATIONS,
AD-655 774

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SR-25
A BIBLIOGRAPHY OF THE
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AD-618 131

• AIR FORCE FLIGHT DYNAMICS LAB WRIGHT-
PATTERSON AFB OHIO
• • •

APFDL-TR-66-67
DEVELOPMENT OF EXPERIMENTAL
TESTING PROGRAMS TO VERIFY THERMAL
STRESS ANALYSIS,
AD-486 798

• AIR FORCE INST OF TECH WRIGHT-
PATTERSON AFB OHIO
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TR-60-3
THE MEASUREMENTS OF E/M, AN

ANNOTATED BIBLIOGRAPHY,
AD-630 602

•AIR FORCE MATERIALS LAB WRIGHT-
PATTERSON AFB OHIO

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ML-TR-64-416
ELECTRON FRACTOGRAPHY HANDBOOK,
AD-612 912

•AIR FORCE OFFICE OF SCIENTIFIC
RESEARCH ARLINGTON VA

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PROBLEMS IN RHEOLOGY AND
PHYSICAL CHEMISTRY,
AD-416 376

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AFOSR-64 1110
STRUCTURES OF BIOLOGICALLY
ACTIVE MOLECULES,
AD-601 690

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AFOSR-64 1138
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ENGINEERING: GAS DYNAMICS),
AD-601 730

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AD-627 901

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RESEARCH IN OPTICAL COHERENCE,
AD-634 013

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AD-626 600

•AIR FORCE WEAPONS LAB KIRTLAND AFB N
MEX

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AFWL-RTD TDR63 3025
BIBLIOGRAPHY OF
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AD-410 518

•AMERICAN UNIV WASHINGTON D C

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RM64 1
UNCONVENTIONAL WARFARE.

AD-429 209

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RM64 2
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AD-431 929

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RM-64-4
COUNTERINSURGENCY BIBLIOGRAPHY
SUPPLEMENT NO. 2,
AD-433 158

•AMERICAN UNIV WASHINGTON D C CENTER
FOR RESEARCH IN SOCIAL SYSTEMS

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BIBLIOGRAPHY ON
COUNTERINSURGENCY, UNCONVENTIONAL
WARFARE, AND PSYCHOLOGICAL
OPERATIONS. SUPPLEMENT NO. 9,
AD-642 321

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CINFAC BIBLIOGRAPHIC REVIEW,
SUPPLEMENT NO. 10, AUGUST, 1966,
AD-642 362

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CINFAC BIBLIOGRAPHIC REVIEW:
SUPPLEMENT NO. 11,
AD-647 887

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CINFAC BIBLIOGRAPHIC REVIEW
SUPPLEMENT NO. 12,
AD-654 795

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CINFAC BIBLIOGRAPHIC REVIEW:
SUPPLEMENT NO. 13,
AD-656 465

• • •
CRESS/CINFAC-R-0603
A SELECTED BIBLIOGRAPHY ON
URBAN INSURGENCY AND URBAN UNREST
IN LATIN AMERICA AND OTHER AREAS,
AD-648 508

•AMERICAN UNIV WASHINGTON D C
SPECIAL OPERATIONS RESEARCH OFFICE

• • •
COUNTERINSURGENCY BIBLIOGRAPHY
SUPPLEMENT NO. 4,
AD-607 767

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RM64 9
COUNTERINSURGENCY BIBLIOGRAPHY,
AD-442 272

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RM64 12
PSYCHOLOGICAL OPERATIONS
BIBLIOGRAPHY, SUPPLEMENT NO. 3,
AD-446 444

• • •
RM64 14

UNCONVENTIONAL WARFARE -
BIBLIOGRAPHY SUPPLEMENT NO. 4,
AD-452 176

• • •

RM-64-15
PSYCHOLOGICAL OPERATIONS
BIBLIOGRAPHY, SUPPLEMENT NO. 4,
AD-456 200

• • •

RM-64-16
COUNTERINSURGENCY BIBLIOGRAPHY
SUPPLEMENT NO. 5,
AD-458 765

• • •

RM-65-5
UNCONVENTIONAL WARFARE
BIBLIOGRAPHY SUPPLEMENT NO. 6,
AD-467 544

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