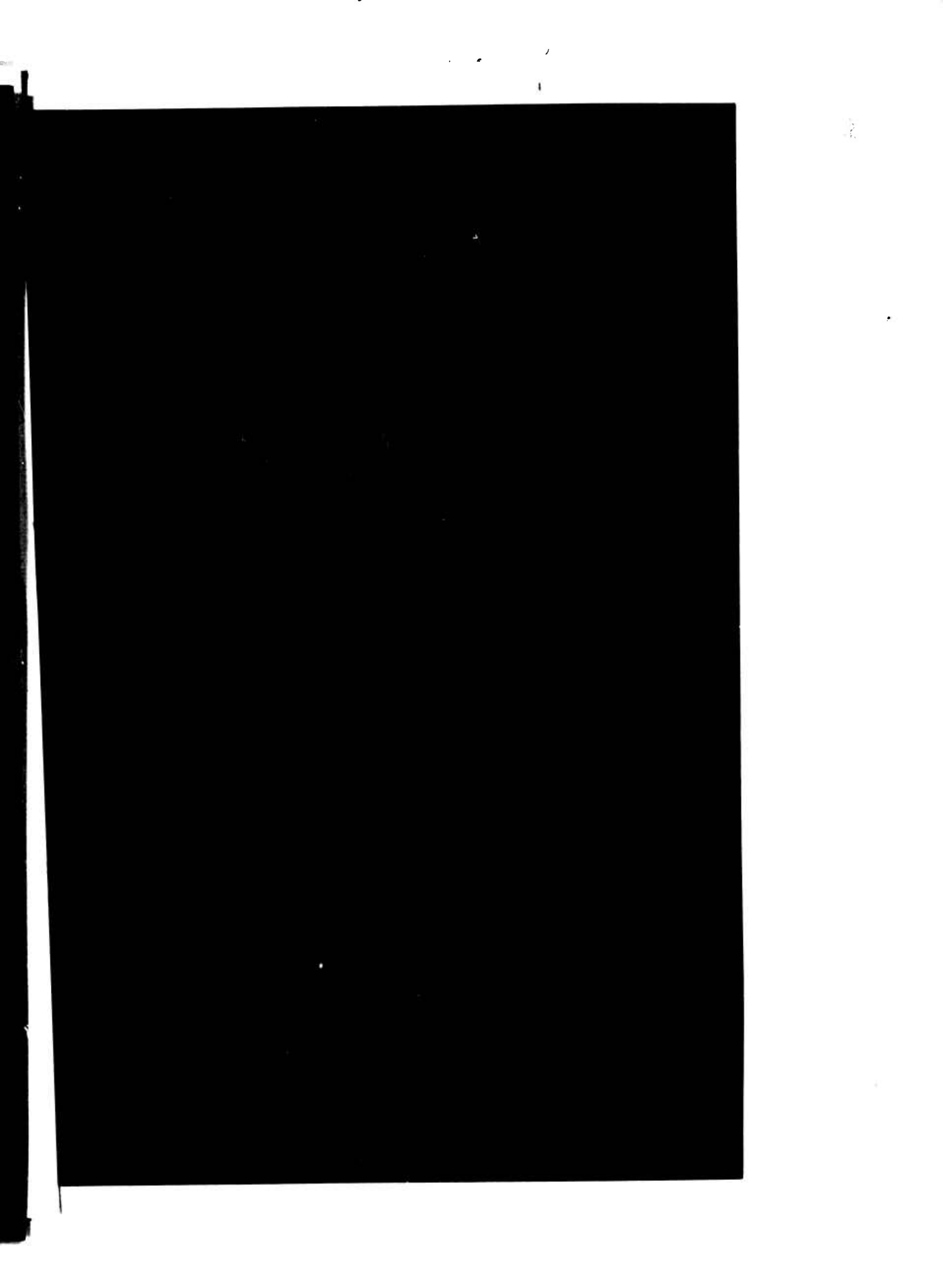


OAR  
cumulative index of  
RESEARCH RESULTS  
1963

OFFICE of AEROSPACE RESEARCH  
United States Air Force





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**OAR Cumulative Index of  
RESEARCH RESULTS**

**1963**

**OFFICE OF AEROSPACE RESEARCH**

**UNITED STATES AIR FORCE**

**WASHINGTON, D. C.**

# FOREWORD

The primary mission of the Office of Aerospace Research is to plan and manage the Air Force research program. This includes the areas of Physical Sciences, Environmental Sciences, Mathematical Sciences, Psychological and Social Sciences, and Biological and Medical Sciences. In addition, we carry out exploratory development for the Air Force Systems Command in the areas of Environment and Aerospace Environment. Finally, we conduct research in fields where we have special competence for the Air Force Systems Command and the Advanced Research Projects Agency, work on specific projects for the Defense Atomic Support Agency, and cooperate with the National Aeronautics and Space Administration on tasks of mutual interest.



We are aware of the urgent need to expedite the exchange of scientific and technical information within the DoD and between DoD elements and the scientific community. Personal contact has long been one of the best media for such interchange. In certain cases, this is all that is needed. But in other cases, in view of the rapidly increasing quantity of information, personal contact is not enough to meet the requirements for effective communication.

Recently, we published the OAR Cumulative Index of Research Results, 1959-1962 as a means for accelerating the interchange of scientific and technical information between scientist and scientist, and between the researcher and the user. We have received many favorable comments on it. We are also currently publishing the OAR Cumulative Index of Research Results, 1963. This first Quarterly Index for 1964 (which will be a recurring publication) continues the tradition of making available to all who can use them the results of OAR research efforts. We hope that you will find it just as useful.

A handwritten signature in cursive script that reads "Don R. Ostrander".

DON R. OSTRANDER  
Major General, USAF  
Commander  
Office of Aerospace Research

# INTRODUCTION

The OAR Cumulative Index of Research Results, 1963 is designed:

- to identify all technical reports produced and published by the various organizations within the Office of Aerospace Research during the calendar year 1963.
- to provide a record of the results of research conducted and sponsored by each OAR organization during this same period.
- to furnish a ready reference for the identification of technical reports produced by particular authors or contractors, or under certain contracts, grants or projects.

The OAR Cumulative Index is divided into several parts beginning with a bibliography of the results of both OAR-conducted and sponsored research published during 1963. This bibliography is organized into sections by monitoring organizations. Within each section, the technical reports are arranged alphanumerically according to the report number assigned by each organization. Each bibliographic entry includes the following information (if available and applicable): the report number; corporate author; title and date; the security classification (if classified); the name(s) of the author(s); the Defense Documentation Center (DDC) accession number; the instrument (contract or grant) number; and the project and task numbers. Several indexes follow the bibliography and are keyed to it by the report numbers. These are: an author index; a corporate-author index; an instrument-number index; a project/task-number index; and a KWIC (Keyword-in-Context) index of the report titles.

Every effort has been made to include all research results published during 1963 (both in-house and contractor technical reports and journal articles) as well as other research products which are not technical reports per se but have resulted wholly or in part from OAR support (translations, monographs, symposia proceedings, state-of-the-art studies, reviews and textbooks). In some sections, there are omissions in the numerically listed report numbers. This is due to the nonutilization of numbers preassigned to a division or laboratory. Occasionally, also, a particular report was assigned a number but, for one reason or another, the report was not published. Every effort has been made, however, to include all reports published during this reporting period.

Any questions concerning this publication, or suggestions for improving subsequent indexes of research results, should be directed to the Office of Scientific and Technical Information (RRYC), Hq Office of Aerospace Research, USAF, 4th and Independence, S.W., Washington, D.C. 20333.

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THE FOLLOWING ARE THE TITLES OF THE PROJECTS FOR WHICH REPORTS WERE PROCESSED DURING THIS REPORTING PERIOD.

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AN INVESTIGATION OF A THREE-DIMENSIONAL TURBULENT BOUNDARY  
LAYER IN HYPERSONIC FLOW, FEB 1963.  
RV AIELLO G F DDC NUMBER 403484  
INSTRUMENT AF 33C616>07661  
PROJ/TASK 7066 01

ARL 63 027  
UPPER MERIDIAN  
APPLICATIONS OF LOCALIZED PERTURBATION TECHNIQUE, 1 APR  
1963.  
RV ALLI M R DDC NUMBER 206769  
WARR R F INSTRUMENT AF 61C052>00341  
PROJ/TASK 7112 02

ARL 63 028  
UPPER MERIDIAN  
QUANTUM OPTICS AND THE APERIODIC SOLID. SOME ASPECTS ON  
THE BIOLOGICAL PROBLEMS OF HEREDITY, MUTATIONS, AGING AND  
TUMORS IN VIEW OF THE QUANTUM THEORY OF DNA MOLECULES, 11  
NOV 1962.  
RV LOWEN P D DDC NUMBER 206941  
INSTRUMENT AF 61C052>00341  
PROJ/TASK 7112 02

ARL 63 029  
WISCONSIN II MADISON  
NUMERICAL SCALING OF AN APPROXIMATE  $H_2O$  WAVE FUNCTION,  
FEB 1963.  
RV WATH W J DDC NUMBER 402417  
HIRSCHFELDER J O INSTRUMENT AF 33C616>07311  
PROJ/TASK 7013 01

ARL 63 030  
AF OAR AFROSPACE RESEARCH LABS  
SOLID STATE PHYSICS RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
ASTRONOMICAL PHOTOGRAPHIC RECORDING WITH AND WITHOUT  
ELECTRONIC LIGHT INTENSIFICATION, NOV 1962.  
OHIO J SCI 62 NOV 1962  
RV GREL R K M DDC NUMBER 401153  
DEVOL L INSTRUMENT AF 33C616>07311  
PROJ/TASK 7085 03

ARL 63 031  
AF OAR AFROSPACE RESEARCH LABS  
SOLID STATE PHYSICS RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
A SUPERFAST RECORDER FOR DAY AND NIGHT OBSERVATIONS OF  
SPACE VEHICLES USING A LIGHT AMPLIFIER CAPABLE OF  
SUPPRESSING THE BACKGROUND AND DISCRIMINATING MOVING  
OBJECTS, JAN 1963.  
RV GREL R K M DDC NUMBER 401154  
INSTRUMENT AF 33C616>07311  
PROJ/TASK 7085 03

ARL 63 032  
TECHNISCHE HOCHSCHULE WIEN AUSTRIA  
POLAROGRAPHIC STUDIES IN CERTAIN NONAQUEOUS SYSTEMS, JAN  
1963.  
RV GUTMANN V DDC NUMBER 200888  
INSTRUMENT AF 61C052>00487  
PROJ/TASK 7023 02

ARL 63 033  
MIDWEST RESEARCH INST KANSAS CITY MO  
ON THE APPROXIMATE SOLUTION OF INTEGRAL EQUATIONS OF THE  
CONVOLUTION TYPE, FEB 1963.  
RV LUK V L DDC NUMBER 403426  
INSTRUMENT AF 33C616>07062  
PROJ/TASK 7071 02

ARL 63 034  
AF OAR AFROSPACE RESEARCH LABS METALLURGY AND CERAMICS  
RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
THE RELATIVE THERMODYNAMIC PROPERTIES OF NICKEL-PALLADIUM  
SOLID SOLUTIONS, FEB 1963.  
RV RIDWELL L R DDC NUMBER 404620  
SPEISER R PROJ/TASK 7021 03

ARL 63 035  
WARNER AND QUASBY CO FLUSHING N Y  
INFRARED SPECTRA AND TEMPERATURES OF PLASMA JETS, FEB 1963.  
RV RYAN L R DDC NUMBER 404867  
NARROW M J INSTRUMENT AF 33C616>00047  
TOURIN R F PROJ/TASK 7063 01

ARL 63 036  
WISCONSIN II MADISON  
QUANTUM MECHANICAL SOLUTIONS OBTAINED BY TRUNCATED REACTION  
OPERATORS, FEB 1963.  
RV WATH W J DDC NUMBER 412477  
ROCKINS S O INSTRUMENT AF 33C616>07311  
SANDO E W PROJ/TASK 7013 01  
HIRSCHFELDER J O

ARL 63 037  
LITTLE ARTHUR D INC CAMBRIDGE MASS  
RADIATION CHARACTERISTICS OF METAL VAPORS, FEB 1963.  
RV WCHSLER A F DDC NUMBER 409582  
GLASER R F INSTRUMENT AF 33C616>07074  
PROJ/TASK 7063 01

ARL 63 038  
AF OAR AFROSPACE RESEARCH LABS CHEMISTRY RESEARCH LAB  
WRIGHT-PATTERSON AFB OHIO  
RAMP-GAS SENSITIZED RADIOLYSIS OF PROPANE,  
J CHEM PHYS 37 8 1694-1699 15 OCT 1962  
RV PITRELL J M DDC NUMBER 401152  
TIFFMAN T O PROJ/TASK 7023 03

ARL 63 039  
AF OAR AFROSPACE RESEARCH LABS CHEMISTRY RESEARCH LAB  
WRIGHT-PATTERSON AFB OHIO  
THE SELECTIVE SENSITIZATION OF ACETYL TRIPLET STATE IN  
THE VAPOR PHASE,  
J AM CHEM SOC 84 4041-4044 1962  
RV DUBOIS J T DDC NUMBER 239708  
PROJ/TASK 7013 03

ARL 63 040  
AF OAR AFROSPACE RESEARCH LABS CHEMISTRY RESEARCH LAB  
WRIGHT-PATTERSON AFB OHIO  
TEMPERATURE PROGRAMMING IN GAS CHROMATOGRAPHY,  
ANAL CHEM 34 13 1838-1839 DEC 1962  
RV TIFFMAN T O DDC NUMBER 401150  
PITRELL J M PROJ/TASK 7023 03

ARL 63 041  
AF OAR AFROSPACE RESEARCH LABS GENERAL PHYSICS LAB  
WRIGHT-PATTERSON AFB OHIO  
LORENTZ-INVARIANT EQUATIONS OF MOTION OF POINT MASSSES IN  
THE GENERAL THEORY OF RELATIVITY,  
PHYS REV 128 1 398-414 1 OCT 1962  
RV GOLDREICH J M DDC NUMBER 401151  
MAYAS D PROJ/TASK 7114 01

ARL 63 042  
AF OAR AFROSPACE RESEARCH LABS HYPERSONICS RESEARCH LAB  
WRIGHT-PATTERSON AFB OHIO  
THE CONDENSATION OF AIR IN A HYPERSONIC WIND TUNNEL,  
J AEROSPACE SCI 1963  
RV DAIM F L DDC NUMBER 403077  
PROJ/TASK 7066 01

ARL 63 043  
WISCONSIN II MADISON  
A STUDY OF ONE AND TWO ELECTRON CENTRAL FORCE PROBLEMS  
USING THE HYPERVIRIAL THEOREM, FEB 1963.  
RV GORDON S J DDC NUMBER 407407  
INSTRUMENT AF 33C616>07311  
PROJ/TASK 7013 01

ARL 63 044  
WISCONSIN II MADISON  
SOLUTIONS FOR COMPLEX SYSTEMS OF CHEMICAL REACTION OF  
KINETICS - PART III, A REVERSIBLE UNIMOLECULAR REACTION  
FOLLOWED BY AN IRREVERSIBLE BIMOLECULAR REACTION, JUL 1963  
RV KIRA O W DDC NUMBER 417544  
KONVALIN D D INSTRUMENT AF 33C616>07311  
PROJ/TASK 7013 01

ARL 63 045  
OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
A VERSATILE APPARATUS FOR THE STUDY OF REFRACTIVE INDEX  
FIELDS IN GASES, FEB 1963.  
RV WINNBERG F J DDC NUMBER 411974  
INSTRUMENT AF 33C616>07022  
PROJ/TASK 7013 04

ARL 63 046  
COPENHAGEN U DENMARK  
AN IMPULSIVE COLLISION MODEL FOR THE DISSOCIATION OF  
DIATOMIC MOLECULES, DEC 1962.  
RV RAK T A DDC NUMBER 207987  
LEFROWITZ J L INSTRUMENT AF 61C052>00133  
PROJ/TASK 7013 01

ARL 63 047  
CORNELL AERONAUTICAL LAB INC BUFFALO N Y  
AN EVAPORATION FILM CALORIMETRIC ENTHALPY PROBE, FEB 1963.  
RV HAAS F C DDC NUMBER 404419  
INSTRUMENT AF 33C616>07774  
PROJ/TASK 7063 03

ARL 63 048  
AF OAR AFROSPACE RESEARCH LABS  
SOLID STATE PHYSICS RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
AUTOMATIC PASSIVE OPTICAL RANGE FINDER, FEB 1963.  
RV BARRICKER W DDC NUMBER 428524  
WILSTERS M PROJ/TASK 7072

ARL 63 049  
AF OAR AFROSPACE RESEARCH LABS CHEMISTRY RESEARCH LAB  
WRIGHT-PATTERSON AFB OHIO  
FLUORESCENCE EFFICIENCY OF CYCLOPENTANONE VAPOR AND ITS  
RELATION TO PHOTOLYSIS,  
CAN J CHEM 1963  
RV DUBOIS J T DDC NUMBER 401150  
PROJ/TASK 7013 03

ARL 63 050  
AF OAR AFROSPACE RESEARCH LABS PLASMA PHYSICS RESEARCH LAB  
WRIGHT-PATTERSON AFB OHIO  
LANGMUIR PROBE DERIVATIVES USING A DOUBLE-PROBE METHOD,  
MAR 1963.  
RV GAREFADEN A DDC NUMBER 400223  
DAIMER R C PROJ/TASK 7071 03

ARL 63 051  
SOUTHAMPTON U ENGLAND  
RESEARCH IN HYPERSONIC AEROTHERMODYNAMICS, OCT 1962.  
RV ADDETON J P DDC NUMBER 401150  
RAY E M C INSTRUMENT AF 61C052>00250  
FAY R A PROJ/TASK 7066 01  
TANNER D I

ARL 63 052  
OSLO U NORWAY  
ALPHA-GOSE FOR VEGETIC 1000 AND ALVAC III-F,  
PHYS MATH NORWAY 1963  
RV MINTHAL J DDC NUMBER 403047  
INSTRUMENT AF 61C052>00134  
PROJ/TASK 7112 02

ARL 63 053  
AF OAR AFROSPACE RESEARCH LABS METALLURGY AND CERAMICS  
RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
THE OCCURRENCE AND PARTITIONING OF IMPURITY PHASES,  
TRANS MET SOC AIME 227 145-150 FEB 1963  
RV HOOD R F DDC NUMBER 404470  
GABRETTI W J INSTRUMENT AF 33C616>07311  
ADAIR A M PROJ/TASK 7026 02

- ARL 69 066  
MICHIGAN U ANN ARBOR MICH  
ENERGY ADDITION TO A FLOWING GAS OF HIGH-FREQUENCY-  
SAFE, RECTIFIED-OR-AC-DRIVEN DISCHARGES, MAR 1963.  
BY EARLY H F  
MARTIN F J  
DDC NUMBER 415701  
INSTRUMENT AF 33C616507263  
PROJ/TASK 7116 02
- ARL 69 068  
UPPSALA U SWEDEN  
MAGNETIC FIELD AND TEMPERATURE VARIATIONS IN A TOROIDAL  
DINCH DISCHARGE,  
MICH INSTR METHOD 17 231-247 1962  
BY SVENNESTEDT K  
BERGLUND K  
WESTERLIND K  
DDC NUMBER 403062  
INSTRUMENT AF 60AR -0109-62  
PROJ/TASK 7073 01
- ARL 69 069  
LONDON U KINGS COLL ENGLAND  
ASYMPTOTIC PROPERTIES OF FIELDS AND SPACE TIMES, DEC 1962.  
BY DENROSE B  
INSTRUMENT AF 61C052500647  
PROJ/TASK 7116 01
- ARL 69 070  
LONDON U KINGS COLL ENGLAND  
THE LIGHT-CONE AT INFINITY, DEC 1962.  
BY DENROSE B  
INSTRUMENT AF 61C052500647  
PROJ/TASK 7116 01
- ARL 69 071  
AF OAR AEROSPACE RESEARCH LABS METALLURGY AND CERAMICS  
RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
FREE ENERGY OF FORMATION OF MOLYBDENUM DIOXIDE, APR 1963.  
TRANS MET SOC ATMP 227 APR 1963  
BY BAPP R A  
DDC NUMBER 403045  
PROJ/TASK 7021 01
- ARL 69 072  
PRINCETON U N J  
THE USE OF THE TRANSIENT GUTIN WALL TECHNIQUE IN  
MEASURING HEAT TRANSFER RATES IN HYPERSONIC SEPARATED FLOWS  
MAY 1963.  
BY NICOLL K M  
DDC NUMBER 407529  
INSTRUMENT AF 33C616507622  
PROJ/TASK 7066 01
- ARL 69 073  
PRINCETON U N J  
AN EXPERIMENTAL INVESTIGATION OF LAMINAR HYPERSONIC CAVITY  
FLOWS, PART I, PRESSURE MEASUREMENTS, MAY 1963.  
BY NICOLL K M  
DDC NUMBER 407527  
INSTRUMENT AF 33C616507620  
PROJ/TASK 7066 01
- ARL 69 074  
PRINCETON U N J  
AN EXPERIMENTAL INVESTIGATION OF LAMINAR HYPERSONIC CAVITY  
FLOWS, PART II, HEAT TRANSFER AND RECOVERY FACTOR  
MEASUREMENTS, JAN 1964.  
BY NICOLL K M  
DDC NUMBER 430710  
INSTRUMENT AF 33C616507622  
PROJ/TASK 7066 01
- ARL 69 075  
PRINCETON U N J  
AN EXPERIMENTAL INVESTIGATION OF THE SEPARATION OF A  
HYPERSONIC BOUNDARY LAYER ON A FLAT PLATE, PART I, PRESSURE  
DISTRIBUTION AND OPTICAL STUDIES AT MACH 11.7, MAY 1963.  
BY SPANAM W J  
VAK I F  
DDC NUMBER 406702  
INSTRUMENT AF 33C616507622  
PROJ/TASK 7066 01
- ARL 69 076  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
HIGH SPEED LOW DENSITY FLOW NEAR THE STAGNATION POINT OF A  
BLUNT BODY, MAY 1963.  
BY CHOW B  
DDC NUMBER 412644  
INSTRUMENT AF 33C616507661  
PROJ/TASK 7066 01
- ARL 69 077  
SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
THEORETICAL INVESTIGATIONS IN SOLID STATE PHYSICS USING  
DISPERSION RELATION TECHNIQUES, MAY 1963.  
BY KAHN B  
PEARSON C J  
DDC NUMBER 407352  
INSTRUMENT AF 33C616507781  
PROJ/TASK 7485 03
- ARL 69 078  
WISCONSIN U MADISON  
TOXICATED REACTION OPERATORS AND THE HELIUM, MAY 1963.  
BY MEATH W J  
KENDO E M  
GOSWAMI K O  
HIRSCHFELDER J O  
DDC NUMBER 407699  
INSTRUMENT AF 33C657507931  
PROJ/TASK 7013 01
- ARL 69 079  
WISCONSIN U MADISON  
THE HYPERVIRIAL THEOREM FOR COLLISIONS BETWEEN ELECTRONS  
AND ATOMS, MAY 1963.  
BY WELTBY M B  
HIRSCHFELDER J O  
DDC NUMBER 407607  
INSTRUMENT AF 33C657507931  
PROJ/TASK 7013 01
- ARL 69 080  
WISCONSIN U MADISON  
COMPARISON OF THE HARTREE-FOCK ORBITAL WITH THE FIRST  
NATURAL COIN ORBITAL FOR TWO-ELECTRON SYSTEMS, MAY 1963.  
BY NAZAROFF G V  
HIRSCHFELDER J O  
DDC NUMBER 407591  
INSTRUMENT AF 33C657507931  
PROJ/TASK 7013 01
- ARL 69 081  
AF OAR AEROSPACE RESEARCH LABS CHEMISTRY RESEARCH LAB  
WRIGHT-PATTERSON AFB OHIO  
INHIBITION OF THE ARGON-SENSITIZED RADIOLYSIS OF PROPANE  
BY HYDROGEN,  
J CHEM PHYS 38 1 150-154 JAN 1963  
BY FURFEL J H  
TIFOWAN T O  
DDC NUMBER 403039  
PROJ/TASK 7023 03
- ARL 69 082  
MICHIGAN U ANN ARBOR MICH  
EFFECTS OF COOLING ON BOUNDARY-LAYER TRANSITION ON A  
HEMISPHERE IN SIMULATED HYPERSONIC FLOW,  
J AEROSPACE SCI 29 12 DEC 1962  
BY DUNLAP R  
KRETZ A M  
DDC NUMBER 403040  
INSTRUMENT AF 33C616508856  
PROJ/TASK 7066 01
- ARL 69 083  
QUEEN'S U BELFAST NORTHERN IRELAND  
HYPERSONIC STUDY OF OSCILLATING LOW-PRESSURE DISCHARGES,  
PROC INTERN CONF IONIZATION PHENOMENA GASES 8TH MUNICH 1961  
BY GIBSON A  
GRAY F H  
MCELFEY K G  
DDC NUMBER 403041  
INSTRUMENT AF 61C052500132  
PROJ/TASK 7073 03
- ARL 69 084  
YALE U NEW HAVEN CONN  
NOTE ON THERMAL RADIATION,  
ASTROPHYS J 137 1 JAN 1963  
BY OSTER I  
DDC NUMBER 407677  
INSTRUMENT AF 33C657507271  
PROJ/TASK 7073 01
- ARL 69 085  
AF OAR AEROSPACE RESEARCH LABS CHEMISTRY RESEARCH LAB  
WRIGHT-PATTERSON AFB OHIO  
NATURE OF THE INTERACTION BETWEEN ELECTRONS AND WELL  
DEFINED SURFACES - III, ULTRA-HIGH VACUUM SYSTEM AND  
SAMPLE OUT-GASING, IV, GAS SOURCE FOR THE ULTRA-HIGH  
VACUUM STUDY OF ADSORPTION OF KNOWN GAS LAYERS ON CLEAN  
SURFACES, MAY 1963.  
BY FERN F I  
JACKSON A C  
DDC NUMBER 407644  
PROJ/TASK 7022 01

- 49L 63 081  
DORRINGTON H N J  
DEVELOPE AND HEAT TRANSFER MEASUREMENTS OVER A CIRCULAR  
CYLINDER AT ANGLES OF ATTACK UP TO 15 AT MACH 11, MAY 1963,  
BY WORTSMAN C C  
DDC NUMBER 409149  
INSTRUMENT AF 33C616307627  
PROJ/TASK 7064 01
- 49L 63 082  
AF OAD AIRSPACE RESEARCH LABS  
FLUID DYNAMIC FACILITIES LAB WRIGHT-PATTERSON AFB OHIO  
THE EFFECT OF ADJUSTERS ON THE MECHANISM OF DETONATION IN  
PASTOUS SYSTEMS, MAY 1963,  
BY WOLFSON D T  
DDC NUMBER 414421  
PROJ/TASK 7065 01
- 49L 63 083  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
A ONE-DIMENSIONAL MODEL FOR COMPRESSIBLE FLOW IN THE  
TRAVELING WAVE PUMP, MAY 1963,  
BY COVERT F F  
HALDEMAN C  
DDC NUMBER 414864  
INSTRUMENT AF 33C657307974  
PROJ/TASK 7065 01
- 49L 63 084  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
STUDIES ON ELECTRO-MAGNETIC HEATS OF ADDING HEAT AND KINETIC  
ENERGY TO A GAS, MAY 1963,  
BY COVERT F F  
HALDEMAN C  
COFFIN J R  
ROSENBERG I  
DDC NUMBER 414178  
INSTRUMENT AF 33C657307974  
PROJ/TASK 7065 01
- 49L 63 085  
WAGONER AND CHAFFY CO FLUSHING N Y  
MEASUREMENT OF TEMPERATURE IN GASEOUS DETONATIONS BY  
MONOCHROMATIC RADIATION PYROMETRY, MAY 1963,  
BY DENSTAK G J  
TODDIN R H  
DDC NUMBER 418747  
INSTRUMENT AF 33C616308312  
PROJ/TASK 7065 02
- 49L 63 086  
TORONTO ONTARIO CANADA  
HYPERVELOCITY OF LAUNCHERS, PART I, SIMPLE LAUNCHERS, MAY  
1963,  
BY CLARK T Y  
DDC NUMBER 419112  
INSTRUMENT AF 33C657307874  
PROJ/TASK 7065 01
- 49L 63 087  
SHEFFIELD IN ENGLAND  
ELECTRON CORRELATION IN METALS, MAY 1963,  
BY JONES W  
MARCH N W  
DDC NUMBER 409552  
INSTRUMENT AF 61C052300351  
PROJ/TASK 7112 02
- 49L 63 088  
SPACE TECH LABS INC BENDIGO BEACH CALIF  
RESEARCH ON THE GENERATION AND ACCELERATION OF SUBMICRON-  
SIZE PARTICLES, MAY 1963,  
BY COHEN F  
DDC NUMBER 427730  
INSTRUMENT AF 33C616306775  
PROJ/TASK 7116 03
- 49L 63 089  
ISRAEL INST OF TECH HAIFA  
CORRELATION OF THE BASE-PRESSURE BEHIND A TWO-DIMENSIONAL  
BACKWARD FACING STEP IN A LAMINAR SUPERSONIC FLOW, DEC  
1962,  
BY BOM J  
VICTOR M  
DDC NUMBER 429812  
INSTRUMENT AF 61C052300351  
PROJ/TASK 7063 01
- 49L 63 090  
YALE IN NEW HAVEN CONN  
COMBUSTION INTERACTIONS IN A STRONG MAGNETIC FIELD, MAY 1963,  
BY GOLDMAN D  
OSTER I  
DDC NUMBER 412506  
INSTRUMENT AF 33C657307271  
PROJ/TASK 7073 01
- 49L 63 091  
AF OAD AIRSPACE RESEARCH LABS  
APPLIED MATHEMATICS RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
SPACE CHARGE DISTRIBUTION IN A CLOSED CYLINDER OF FINITE  
LENGTH, MAY 1963,  
BY BREITEN V  
DOMLMANNEN V  
DDC NUMBER 409500  
PROJ/TASK 7071 01
- 49L 63 092  
DORRINGTON H N J  
WAVE BY ELEMENTS ON HYPERSONIC SEPARATED FLOWS, 1963,  
FROM WAVE SYMPOSIUM 1962  
BY RODGONOFF S W  
VAS I F  
DDC NUMBER 433417  
INSTRUMENT AF 33C616307629  
PROJ/TASK 7064 01
- 49L 63 093  
UPPSALA IN SWEDEN  
LIMIT OF ERROR FOR THE ELECTRON DENSITY, COIN  
DENSITY AND ATOMIC FORM FACTORS IN QUANTUM MECHANICAL  
CALCULATIONS, 14 JUL 1963,  
BY BERG L O  
DDC NUMBER 445283  
INSTRUMENT AF 61C052300351  
PROJ/TASK 7112 02
- 49L 63 094  
UPPSALA IN SWEDEN  
ELECTRONIC LOCALIZATION AND PHYSICAL EVOLUTION, 15  
NOV 1962,  
BY DILLMAN A  
DDC NUMBER 445240  
INSTRUMENT AF 61C052300351  
PROJ/TASK 7112 02
- 49L 63 095  
UPPSALA IN SWEDEN  
SECOND ORBITALS AND  $\sigma$  MODIFIED ELECTRON-PAIR  
CALCULATION OF THE AMMONIA MOLECULAR, 15 NOV 1962,  
BY TSUCHIDA A  
OHNO Y  
DDC NUMBER 445260  
INSTRUMENT AF 61C052300351  
PROJ/TASK 7112 02
- 49L 63 096  
UPPSALA IN SWEDEN  
REPORT FROM THE INTERNATIONAL SUMMER INSTITUTE IN  
QUANTUM CHEMISTRY AND SOLID STATE PHYSICS HELD AT THE  
UNIVERSITY OF UPPSALA, SWEDEN,  
BY LINDIN P-O  
DDC NUMBER 405202  
INSTRUMENT AF 61C052300351  
PROJ/TASK 7112 02
- 49L 63 097  
UPPSALA IN SWEDEN  
ON THE CALCULATIONS OF SOME ATOMIC INTEGRALS CONTAINING  
FOUR TERMS OF  $r^{12} + r^{10} + r^8 + r^6$ , 30 NOV 1962,  
BY OHNO Y  
NORLING J  
DDC NUMBER 445441  
INSTRUMENT AF 61C052300351  
PROJ/TASK 7112 02
- 49L 63 098  
RHODES IN PROVIDENCE R I  
HEAT AND MASS TRANSFER IN TURBULENT SEPARATED FLOWS, 1963,  
BY RICHARDSON D O  
DDC NUMBER 408107  
INSTRUMENT AF 33C616309756  
PROJ/TASK 7063 01
- 49L 63 099  
ISRAEL INST OF TECH HAIFA  
MEASUREMENT OF LAMINAR HEAT TRANSFER RATES OVER A TWO-  
DIMENSIONAL BACKWARD FACING STEP IN A SHOCK TUBE, FEB 1963,  
BY ROM J  
SECTHER A  
DDC NUMBER 429811  
INSTRUMENT AF 61C052300351  
PROJ/TASK 7112 01
- 49L 63 100  
GULF-10 INC LOS ANGELES CALIF  
TEST CRITERIA FOR PEARSON TYPE III DISTRIBUTIONS, JUN 1963,  
BY HICKY M R  
WINDLE D R  
WALKER D M  
GINSKY A H  
DDC NUMBER 415831  
INSTRUMENT AF 33C657307900  
PROJ/TASK 7071 01
- 49L 63 101  
OHIO STATE IN RESEARCH FOUNDATION COLUMBUS  
PROPAGATION OF SPHERICAL COMBUSTION WAVES, JUN 1963,  
BY DELLEFRANCO J W  
STRAUSS W A  
FOCK R  
DDC NUMBER 414962  
INSTRUMENT AF 33C616308129  
PROJ/TASK 7013 01
- 49L 63 102  
ILLINOIS INST OF TECH CHICAGO  
AN INVESTIGATION OF INDUCED SEPARATION OF SUPERSONIC  
CHANNEL FLOWS, JUN 1963,  
BY FEUER A A  
JOSEF J-R  
INSTRUMENT AF 33C616308183  
PROJ/TASK 7116 01
- 49L 63 103  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
THE TRANSPIRATION COOLING OF A TURBULENT BOUNDARY LAYER  
IN AN AXISYMMETRIC NOZZLE, JUN 1963,  
BY LIBBY J J  
COFFIN J R  
DDC NUMBER 415448  
INSTRUMENT AF 33C616307661  
PROJ/TASK 7066 01
- 49L 63 104  
ILLINOIS INST OF TECH RESEARCH INST CHICAGO  
A STUDY OF THE H<sub>2</sub>-O<sub>2</sub> SYSTEM, JUN 1963,  
BY DOMAGALA R F  
DDC NUMBER 410593  
INSTRUMENT AF 33C616307074  
PROJ/TASK 7022 02
- 49L 63 105  
TECHNISCHE HOCHSCHULE STUTTGART WEST GERMANY  
TRANSIENT DISCHARGE IN A WIRE STABILIZED ARC, JUN 1963,  
BY WOPPER F H  
MATHIASSEN H  
DEJANER F  
SCHMIDT H  
STROBEL W R  
THIELER S  
DDC NUMBER 414107  
INSTRUMENT AF 61C052300351  
PROJ/TASK 7073 01
- 49L 63 106  
CARNEGIE INST OF TECH PITTSBURGH PA  
ON THE CORRELATION OF THE MEANS OF TWO NORMAL DISTRIBUTIONS  
WITH UNKNOWN VARIANCES, JUN 1963,  
BY YAO Y  
DDC NUMBER 415802  
INSTRUMENT AF 33C616307274  
PROJ/TASK 7071 01
- 49L 63 107  
NORTH AMERICAN AVIATION INC ROCKEVILLE ILL  
CANADA BARKY CALIF  
COMPARISON OF METHODS FOR REGRESSION EXPERIMENTS, DESIGN  
OF EXPERIMENTS WITH AUTOCORRELATED ERRORS PRESENT, AND  
DETERMINATION THEORY APPROACH TO COMPLEX EXPERIMENTATIONS, JUN  
1963,  
BY ALEXANDER M J  
GOODMAN M R  
LOCKE M O  
LEHR C O  
DDC NUMBER 415454  
INSTRUMENT AF 33C616307377  
PROJ/TASK 7071 01
- 49L 63 108  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
ON THE MIXING OF LAMINAR AND TURBULENT AXIALLY SYMMETRIC  
COMPRESSIBLE FLOWS, JUN 1963,  
BY KLEINSTEIN G  
DDC NUMBER 414031  
INSTRUMENT AF 33C616307661  
PROJ/TASK 7066 01

ARL 63 109  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
MIXING PROBLEMS WITH CHEMICAL REACTIONS, JUN 1963.  
RY ZAKKAY V DDC NUMBER 411760  
KRAUSE F INSTRUMENT AF 33C616>07661  
PROJ/TASK 7064 01

ARL 63 110  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
A FLAME ZONE MODEL FOR CHEMICAL REACTION IN A LAMINAR  
BOUNDARY LAYER WITH APPLICATION TO THE INJECTION OF  
HYDROGEN-OXYGEN MIXTURES.  
INTERN J HEAT MASS TRANSFER 6 113-128 1963  
RY LARRY D A DDC NUMBER 408225  
ECONOMOS C INSTRUMENT AF 33C616>07661  
PROJ/TASK 7064 01

ARL 63 111  
AF OAR AEROSPACE RESEARCH LABS CHEMISTRY RESEARCH LAB  
WRIGHT-PATTERSON AFB OHIO  
FREE CONVECTION HEAT TRANSFER IN A REACTING GAS ENCLOSED  
BETWEEN PARALLEL VERTICAL PLATES.  
CHEM ENG PROG SYMPOS SER 59 41 208-220 1963  
RY SCHELLER K DDC NUMBER 407678  
DRYDEN C F INSTRUMENT AF 33C616>07661  
PROJ/TASK 7013 01

ARL 63 112  
CATHOLIC U OF LOUVAIN BELGIUM  
EXPERIMENTAL STUDY OF CHEMI-IONIZATION IN FLAMES, MAY 1963.  
RY VAN TIGHELEN A DDC NUMBER 404875  
BERTRAND J M INSTRUMENT AF 61C052>00398  
FEIGIER A PROJ/TASK 7013 01

ARL 63 113  
MARTIN MARIETTA CORP RIAS INC BALTIMORE MD  
CONFORMAL TRANSFORMATIONS AND ELECTROMAGNETIC RADIATION,  
JUL 1963.  
RY WITTEN L DDC NUMBER 415142  
INSTRUMENT AF 33C616>08194  
PROJ/TASK 7114 01

ARL 63 114  
FRANKLIN INST PHILADELPHIA PA  
A STUDY OF THE BEHAVIOR OF DISLOCATIONS AND THEIR  
INTERACTION WITH OTHER LATTICE DEFECTS UNDER CONDITIONS  
OF ALTERNATING STRESS, JUL 1963.  
RY SPONDEEN K U DDC NUMBER 415630  
WILSDORF H G F INSTRUMENT AF 33C616>06996  
PROJ/TASK 7024 02

ARL 63 115  
PARIS U FRANCE  
LONGITUDINAL DIELECTRIC CONSTANT OF A PLASMA, TAKING INTO  
ACCOUNT CORRELATION EFFECTS, MAR 1963.  
RY COSTE J DDC NUMBER 408264  
INSTRUMENT AF 61C052>00351  
PROJ/TASK 7073 01

ARL 63 116  
SYSTEMS RESEARCH LABS INC DAYTON OHIO  
THE ELECTRICAL BEHAVIOR OF REFRACTORY OXIDES, JUL 1963.  
RY VEST R W DDC NUMBER 418270  
INSTRUMENT AF 33C616>07748  
PROJ/TASK 7022 02

ARL 63 117  
HOOTHORP CORP HAWTHORNE CALIF  
ANALYSIS OF SUPERSONIC FLOW THROUGH CURVED CHANNELS, JUL  
1963.  
RY DER J JR DDC NUMBER 419300  
WILLINGS R M INSTRUMENT AF 33C657>08851  
HOFFMAN G H PROJ/TASK 7065 01  
BROWN R N D

ARL 63 118  
WISCONSIN U MADISON  
THE INTEGRATION OF THE FIRST-ORDER PERTURBED WAVE EQUATION  
FOR EXCITED STATES OF ONE-DIMENSIONAL SYSTEMS, JUL 1963.  
RY BROWN W R DDC NUMBER 405547  
HIRSCHEFELDER J O INSTRUMENT AF 33C657>07311  
PROJ/TASK 7013 01

ARL 63 119  
AF OAR AEROSPACE RESEARCH LABS CHEMISTRY RESEARCH LAB  
WRIGHT-PATTERSON AFB OHIO  
BYDROGEN LEVELS OF POLYTECHNIC MOLECULES, OXYGEN CONTAINING  
MOLCULES.  
J MOL LIQUID 10 4 APR 1963  
RY LAPAGLIA S R DDC NUMBER 410737  
PROJ/TASK 7013 03

ARL 63 120  
YALE U NEW HAVEN CONN  
COULOMB INTERACTIONS IN A STRONG MAGNETIC FIELD. I.  
ADIABATIC CASE.  
PHYS REV 129 3 1469-1478 FEB 1963  
RY GOLDMAN D DDC NUMBER 412895  
OSTER I INSTRUMENT AF 33C657>07271  
PROJ/TASK 7073 01

ARL 63 121  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
ON AXIALLY SYMMETRIC, TURBULENT COMPRESSIBLE MIXING IN  
THE PRESENCE OF INITIAL BOUNDARY LAYER.  
AM INST AERONAUTICS 1 4 1963  
RY KLEINSTEIN G DDC NUMBER 409612  
INSTRUMENT AF 33C616>07661  
PROJ/TASK 7064 01

ARL 63 122  
ICRAF INST OF TECH HAIFA  
RESEARCH ON THE DEPENDENCE OF THE STRENGTH OF METALS ON THE  
RATE OF STRAIN, 15 MAR 1963.  
RY REINER M DDC NUMBER 412287  
ARIR D INSTRUMENT AF 61C052>00304  
PROJ/TASK 7063 02

ARL 63 123  
STANFORD U CAL  
THE ROLE OF DEFERRED ORIENTATION ON THE ELASTIC AND  
PLASTIC PROPERTIES OF METALS AT HIGH TEMPERATURES, JUL 1963  
RY LYTTON J L DDC NUMBER 418074  
INSTRUMENT AF 33C616>06789  
PROJ/TASK 7021 01

ARL 63 124  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
STRAIN HARDENING AND AUSEFORMING IN AN IRON-NICKEL ALLOY,  
JUL 1963.  
RY COHEN M DDC NUMBER 418720  
TANANTO J INSTRUMENT AF 33C616>06873  
PROJ/TASK 7021 04

ARL 63 125  
MARQUARDT CORP VAN NUYS CALIF  
RESEARCH ON EXPERIMENTAL EVALUATION OF SPUTTERING YIELD  
RATES, JUL 1963.  
RY CHENY K P DDC NUMBER 415285  
RODGERS F F INSTRUMENT AF 61C052>00120  
DITKIN F T PROJ/TASK 7116 03

ARL 63 126  
BRANDEIS U WALTHAM MASS  
ELECTRON PARAMAGNETIC RESONANCE OF IMPURITIES OF SINGLE  
CRYSTALS AND OF SULFUR MONOXIDE, JUL 1963.  
RY DORAIN D R DDC NUMBER 410127  
INSTRUMENT AF 33C616>06401  
PROJ/TASK 7885 03

ARL 63 127  
WISCONSIN U MADISON  
ENERGY LEVELS IN SEMICONDUCTOR MATERIALS THROUGH CYCLOTRON  
RESONANCE, JUL 1963.  
RY BAER W S DDC NUMBER 418744  
HENNING D H INSTRUMENT AF 33C616>06111  
HALLORAN M H PROJ/TASK 7885 03  
HUPPE F  
DEERYC D  
HENSLEY D H  
ZOOK J D

ARL 63 128  
UPPSALA U SWEDEN  
CORRELATION EFFECTS IN THE ALTERNANT MOLECULAR ORBITAL  
APPROXIMATION, JUL 1963.  
RY ADAMS W H DDC NUMBER 408264  
INSTRUMENT AF 61C052>00351  
PROJ/TASK 7112 02

ARL 63 129  
UPPSALA U SWEDEN  
SPIN COMPONENT ANALYSIS OF SINGLE DETERMINANT WAVE  
FUNCTIONS, JUL 1963.  
RY KAKARI F DDC NUMBER 408267  
OHNO K INSTRUMENT AF 61C052>00351  
PROJ/TASK 7112 02

ARL 63 130  
UPPSALA U SWEDEN  
SIMPLE MOLECULAR ORBITAL CALCULATIONS ON THE ELECTRONIC  
STRUCTURE OF IRON-PORPHYRIN COMPLEXES, JUL 1963.  
RY OHNO K DDC NUMBER 409586  
YANASE Y INSTRUMENT AF 61C052>00351  
KASAKI F PROJ/TASK 7112 02

ARL 63 131  
CHICAGO U ILL  
INVESTIGATION OF THE EFFECTS OF AN AXIAL MAGNETIC FIELD  
ON THE FLOW OF AN IONIZED GAS, JUL 1963.  
RY DICKERMAN D J DDC NUMBER 415003  
JARAMILLO T J INSTRUMENT AF 33C616>08048  
RAEISSON V J PROJ/TASK 7063 01

ARL 63 132  
SOUTHWEST RESEARCH INST SAN ANTONIO TEX  
THE EFFECT OF TRANSIENT CREEP ON THE ON-LADDER TIME OF  
CYLINDERS AND CONES UNDER EXTERNAL PRESSURE, AUG 1963.  
RY STOWELL F J DDC NUMBER 414148  
BRIGGS E M INSTRUMENT AF 33C657>08125  
PROJ/TASK 7063 02

ARL 63 133  
ELECTRO-OPTICAL SYSTEMS INC PASADENA CALIF  
THERMODYNAMIC PROPERTIES OF ARGON, AUG 1963.  
RY BAUM E DDC NUMBER 419080  
CANN G L INSTRUMENT AF 33C657>07940  
PROJ/TASK 7116 03

ARL 63 134  
OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
STUDIES ON THE DECOMPOSITION OF NITRUS OXIDE.  
RY STOKES G DDC NUMBER 418744  
EICHBERNE J R INSTRUMENT AF 33C657>08951  
FONG D PROJ/TASK 7065 01

ARL 63 135  
AF OAR AEROSPACE RESEARCH LABS  
FLUID DYNAMICS FACILITIES LAB WRIGHT-PATTERSON AFB OHIO  
SOME CONSIDERATIONS ON FREE-FLIGHT TESTING IN THE ARL  
THIRTY-INCH HYPERSONIC WIND TUNNEL, AUG 1963.  
RY MOORE D G DDC NUMBER 410737  
PROJ/TASK 7065 01

ARL 63 136  
QUEENS U BELFAST NORTHERN IRELAND  
NOTES ON PLASMA ELECTRON OSCILLATIONS, AUG 1963.  
RY GARELUS K G DDC NUMBER 414738  
GARCARDEN A INSTRUMENT AF 61C052>00132  
PROJ/TASK 7074 03

ARL 63 137  
 QUIFFENS II BELFAST NORTHERN IRELAND  
 EXPERIMENTS ON PLASMA OSCILLATIONS, AUG 1963.  
 J ELECTRON CONTROL MAR 1963  
 BY GARCADEN A DDC NUMBER 410739  
 INSTRUMENT AF 61605200132  
 PROJ/TASK 7073 03

ARL 63 138  
 AF OAR AEROSPACE RESEARCH LABS GENERAL PHYSICS LAB  
 WRIGHT-PATTERSON AFB OHIO  
 REFRACTIVE INDEXES OF SINGLE HEXAGONAL ZNS AND CDS  
 CRYSTALS, AUG 1963.  
 BY RIENIEWICKI T M DDC NUMBER 414376  
 PROJ/TASK 7112 02

ARL 63 139  
 GENERAL MILLS INC ST PAUL MINN  
 INVESTIGATION OF SURFACE ENERGY STATES OF SINGLE CRYSTAL  
 METALS, PARTS I AND II, AUG 1963.  
 BY WENARD R C DDC NUMBER 419214  
 INSTRUMENT AF 336657008038  
 PROJ/TASK 7022 01

ARL 63 140  
 AF OAR AEROSPACE RESEARCH LABS CHEMISTRY RESEARCH LAB  
 WRIGHT-PATTERSON AFB OHIO  
 NATURE OF THE INTERACTION BETWEEN ELECTRONS AND WELL-  
 DEFINED SURFACES, PART II, INTERACTION BETWEEN A SMALL  
 CROSS SECTION HELICAL ELECTRON BEAM AND UNIFORM ELECTRICAL  
 FIELDS PERPENDICULAR TO THE HELICAL AXIS, AUG 1963.  
 BY JACKSON A G DDC NUMBER 420541  
 KERN F L PROJ/TASK 7023 05

ARL 63 141  
 POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
 STAGNATION POINT HEAT TRANSFER OF A BLUNT-NOSSED BODY IN  
 LOW-DENSITY FLOW, AUG 1963.  
 ATAA J 1220-1221 MAY 1963  
 BY CHOW B DDC NUMBER 410012  
 INSTRUMENT AF 336616007661  
 PROJ/TASK 7064 01

ARL 63 142  
 AF OAR AEROSPACE RESEARCH LABS  
 SOLID STATE PHYSICS RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
 THE POTENTIALITIES OF ELECTRONICALLY SCANNED  
 PHOTOCONDUCTIVE IMAGE DETECTORS FOR ASTRONOMICAL USES, AUG  
 1963.  
 CVPD PHOTOELECTRONIC IMAGE DEVICES LONDON 1963  
 BY GEREL R K H DDC NUMBER 417072  
 PROJ/TASK 7885 03

ARL 63 143  
 STANFORD II CAL  
 A DOUBLE-PROBE TECHNIQUE FOR DETERMINING ELECTRON VELOCITY  
 DISTRIBUTIONS, AUG 1963.  
 PROC INTERN CONF IONIZATION PHENOMENA GASES 6TH PARIS 1963  
 BY CRAWFORD F W DDC NUMBER 409268  
 GARCADEN A PROJ/TASK 7063 03  
 DALVER R S

ARL 63 144  
 IOWA STATE II OF SCIENCE AND TECH AMES  
 THE COMPOUNDS OF GRADIENT ERROR IN THE METHOD OF PARALLEL  
 TANGENTS, AUG 1963.  
 BY DOERFLER T F DDC NUMBER 418749  
 KEMPTHORNE D INSTRUMENT AF 336616008269  
 PROJ/TASK 7061 01

ARL 63 145  
 NORTH CAROLINA STATE COLL RALEIGH  
 MAGNETO-DIAGNOSTIC CHANNEL FLOW WITH HALL CURRENTS, AUG  
 1963.  
 BY YEN J T DDC NUMBER 421497  
 FARN C L INSTRUMENT AF 336657008068  
 PROJ/TASK 7116 01

ARL 63 146  
 CINCINNATI II OHIO  
 THE INTERACTION OF UNEQUAL OBLIQUE SHOCK WAVES IN A  
 HYPERSONIC FLOW, AUG 1963.  
 BY TEDE F R JR DDC NUMBER 417541  
 TAYLOR W INSTRUMENT AF 336616008453  
 PROJ/TASK 7064 01

ARL 63 147  
 ELECTRO-OPTICAL SYSTEMS INC PASADENA CALIF  
 RESEARCH ON HIGH TEMPERATURE STRAIN GAGE ELEMENTS SUPPORTED  
 BY APL, AUG 1963.  
 BY JORDAN C R DDC NUMBER 417541  
 INSTRUMENT AF 336657008869  
 PROJ/TASK 7065 02

ARL 63 148  
 UPPSALA II SWEDEN  
 PROGRAM FOR SOME MOLECULAR INTEGRALS, ANALYSIS AND  
 DESCRIPTION, AUG 1963.  
 BY LINDBERGG J DDC NUMBER 411334  
 RYSTRAND F W INSTRUMENT AF 616052000351  
 PROJ/TASK 7112 02

ARL 63 149  
 UPPSALA II SWEDEN  
 DOUBLY EXCITED STATES AND NATURAL ORBITALS IN THE STUDY OF  
 ATOMS BY PERTURBATION THEORY, AUG 1963.  
 BY LINDBERGG J DDC NUMBER 411273  
 INSTRUMENT AF 616052000351  
 PROJ/TASK 7112 02

ARL 63 150  
 COLUMBIA II NEW YORK N Y  
 EFFECTS OF MECHANICAL AND THERMAL ELECTRODE PROPERTIES ON  
 THE BEHAVIOR OF THE FLUID TRANSPARATION ARC, AUG 1963.  
 BY SHEER C DDC NUMBER 419199  
 KENNEDY J M INSTRUMENT AF 336657008868  
 TECHANG R S PROJ/TASK 7063 03

ARL 63 151  
 AF OAR AEROSPACE RESEARCH LABS  
 SOLID STATE PHYSICS RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
 PROCEEDINGS OF THE FIRST PLASMA ARC SEMINAR OF THE  
 THERMO-MECHANICS RESEARCH LABORATORY, SEP 1963.  
 BY DAVIES C A DDC NUMBER 420450  
 PROJ/TASK 7063 03

ARL 63 152  
 CALIFORNIA INST OF TECH PASADENA  
 THE TRIAXIAL TENSION FAILURE OF VISCOELASTIC MATERIALS,  
 SEP 1963.  
 BY LINDSEY G H DDC NUMBER 419128  
 SCHARFOW R A INSTRUMENT AF 336616008399  
 WILLIAMS M L PROJ/TASK 7063 02  
 ZAK A R

ARL 63 153  
 GENEVA II SWITZERLAND  
 ORTHOGONAL AND PARTIALLY BALANCED ARRAYS AND THEIR  
 APPLICATION IN DESIGN OF EXPERIMENTS, SEP 1963.  
 BY CHAKRAVARTI I M DDC NUMBER 419214  
 INSTRUMENT AF 616052000648  
 PROJ/TASK 7071 01

ARL 63 154  
 UPPSALA II SWEDEN  
 A METHOD OF COMPUTING THE EMISSION DISTRIBUTION IN  
 CYLINDRICAL LIGHT SOURCES.  
 ARKIV FYSIK 23 671-674 MAR 1963  
 BY HERLITZ S I DDC NUMBER 416027  
 INSTRUMENT AF OAR -0081-63  
 PROJ/TASK 7073 01

ARL 63 155  
 QUIFFENS II BELFAST NORTHERN IRELAND  
 NOTES ON PLASMA OSCILLATIONS, 10 JUN 1963.  
 BY EMELIUS K G DDC NUMBER 411450  
 JONES J M INSTRUMENT AF OAR -0068-67  
 PROJ/TASK 7073 03

ARL 63 156  
 TECHNISCHE HOCHSCHULE STUETTGAART WEST GERMANY  
 INVESTIGATION ON MORSE GAS FILLED THERMIONIC ENERGY  
 CONVERTERS, 15 APR 1963.  
 BY BLOSS W DDC NUMBER 419097  
 INSTRUMENT AF 616052000443  
 PROJ/TASK 7073 01

ARL 63 157  
 GOETTINGEN II WEST GERMANY  
 DETONATION AND SHOCK-TUBE STUDIES OF HYDRAZINE AND  
 NITROUS OXIDE, SEP 1963.  
 BY JUST A DDC NUMBER 419097  
 MICHEL K W INSTRUMENT AF 616052001142  
 TROF J PROJ/TASK 7013 01  
 WAGNER H G

ARL 63 158  
 WISCONSIN II MADISON  
 TRUNCATED REACTION OPERATORS, SEP 1963.  
 BY MEATH W J DDC NUMBER 419767  
 SANDO K M INSTRUMENT AF 336657007311  
 GOSCINSKI S O PROJ/TASK 7013 01  
 HIRSCHFELDER J D

ARL 63 159  
 MICHIGAN II ANN ARBOR MICH  
 THEORETICAL AND EXPERIMENTAL INVESTIGATION OF MICROWAVE  
 SCATTERING FROM A CYLINDRICAL PLASMA, SEP 1963.  
 BY BOWEN S W DDC NUMBER 419803  
 CHEATHAM D W INSTRUMENT AF 336616008124  
 NICHOLLS J S PROJ/TASK 7116 02  
 SELBERG D D

ARL 63 160  
 CALIFORNIA II RIVERSIDE  
 PHYSICAL AND PREPARATIVE STUDIES OF TRANSITION METAL  
 CHELATES, SEP 1963.  
 BY ARCHER R D DDC NUMBER 419774  
 INSTRUMENT AF 336657009035  
 PROJ/TASK 7023 02

ARL 63 161  
 CINCINNATI II OHIO  
 THE PROBLEM OF SHARP LEADING EDGE IN HYPERSONIC FLOW,  
 SEP 1963.  
 BY JAIN A C DDC NUMBER 418746  
 TING YI LI INSTRUMENT AF 336616008453  
 PROJ/TASK 7064 01

ARL 63 162  
 CINCINNATI II OHIO  
 INSTRUMENTATION AND RECORDING EQUIPMENT USED IN  
 CONNECTION WITH THE ARL TWENTY-ONE INCH HYPERSONIC WIND  
 TUNNEL, SEP 1963.  
 BY BROWN D L DDC NUMBER 419044  
 TOLKEN K H INSTRUMENT AF 336616008453  
 HOELVER W PROJ/TASK 7064 01  
 TEDE F R JR

ARL 63 163  
 GENERAL ELECTRIC CO PHILADELPHIA PA  
 SPACE CHARGE AND IONIZATION REGIONS NEAR THE ARC CATHODE,  
 SEP 1963.  
 BY LEE T H DDC NUMBER 418764  
 GREENWOOD A INSTRUMENT AF 336657008206  
 PROJ/TASK 7063 03

ARL 63 164  
 AF OAR AEROSPACE RESEARCH LABS METALLURGY AND CERAMICS  
 RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
 AN ANOMALOUS DISSIPATION FACTOR MAXIMUM IN SAPPHIRE, 24  
 JAN 1962.  
 J APPL PHYS 34 6 1650-1656 JUN 1963  
 BY TALLAN M W DDC NUMBER 416016  
 OPTWILER D D PROJ/TASK 7021 02

ARL 63 165  
AF OAR AFROSPACE RESEARCH LABS  
SOLID STATE PHYSICS RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
SOME EARLY TRIALS OF ASTRONOMICAL PHOTOGRAPHY BY  
TELEVISION METHODS.  
SYMP PHOTOELECTRONIC IMAGE DEVICES LONDON 1968  
BY GEREL R K H  
DEVOL L  
PROJ/TASK 7885 03

ARL 63 166  
DARTMOUTH COLL HANOVER N H  
ON ELECTRICAL CONDUCTION IN A NONUNIFORM HELIUM PLASMA.  
SEP 1963.  
BY PYTTE A  
WILLIAMS A R  
DDC NUMBER 419764  
INSTRUMENT AF 33C657>08179  
PROJ/TASK 7063 03

ARL 63 167  
DAYTON U OHIO  
RESEARCH ON SYSTEMS FOR PRODUCTION OF HIGH TEMPERATURE  
AND HIGH DENSITY GASES. JUN 1963.  
BY MINARDI J F  
SCHWARTZ R R  
DDC NUMBER 419235  
INSTRUMENT AF 33C657>08375  
PROJ/TASK 7116 01

ARL 63 168  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
AN INVESTIGATION OF A HYPERSONIC CASCADE WITH 120°  
TURNING PASSAGES. SEP 1963.  
BY CRESCI R J  
SCHLESINGER A  
INSTRUMENT AF 33C657>08286  
PROJ/TASK 7065 01

ARL 63 169  
ISRAEL INST OF TECH HAIFA  
ENERGY BALANCE OF UNIFORMLY ACCELERATED CHARGE. SEP 1963.  
BY LEIROVITZ C  
PERES A  
DDC NUMBER 413513  
INSTRUMENT AF 60AR -0107-63  
PROJ/TASK 7114 01

ARL 63 170  
DEANGLER DENNITT INC MATERIAALYNVE CORP AVON N Y  
RESEARCH ON THE THERMAL PROPERTIES OF ZIRCONIA. SEP 1963.  
BY BURDICK R R  
HOSKINS W R  
DDC NUMBER 420560  
INSTRUMENT AF 33C616>08208  
PROJ/TASK 7022 02

ARL 63 171  
HARSHAW CHEMICAL CO CLEVELAND OHIO  
RESEARCH ON PHOTOVOLTAIC CELLS. OCT 1963.  
BY HEYERDAHL N F  
HARVEY D J  
HILTANEN J R  
WOLFF G A  
DDC NUMBER 421003  
INSTRUMENT AF 33C657>07916  
PROJ/TASK 7885 03

ARL 63 172  
WISCONSIN U MADISON  
HYPERVIRIAL FUNCTIONS AND THE POSITIVE POWERS OF THE  
RADIAL COORDINATE OPERATOR IN HE AND H<sup>+</sup>. OCT 1963.  
BY GORDON S L  
DDC NUMBER 421494  
INSTRUMENT AF 33C657>07311  
PROJ/TASK 7013 01

ARL 63 173  
AF OAR AFROSPACE RESEARCH LABS  
SOLID STATE PHYSICS RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
ENERGY EXCHANGE PHENOMENA IN ELECTRIC ARCS AND THEIR  
APPLICATION TO AFROSPACE TECHNOLOGY. OCT 1963.  
BY SOEHNGEN F F  
DDC NUMBER 429954  
PROJ/TASK 7063 03

ARL 63 174  
AF OAR AFROSPACE RESEARCH LABS  
APPLIED MATHEMATICS RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
SIMULTANEOUS TESTS AND THE EFFICIENCY OF GENERALIZED  
BALANCED INCOMPLETE BLOCK DESIGNS. OCT 1963.  
BY KRISHNAIAH R R  
DDC NUMBER 420955  
PROJ/TASK 7071 01

ARL 63 175A  
MARYLAND U COLLEGE PARK  
A CRITICAL SURVEY OF MAGNETOFLUID DYNAMICS. PART I.  
GENERAL DISCUSSION. OCT 1963.  
BY PAI S I  
INSTRUMENT AF 33C657>07805  
PROJ/TASK 7116 01

ARL 63 176  
MICHIGAN U ANN ARBOR MICH  
INVESTIGATIONS OF THE STEADY AND UNSTEADY MOTION OF  
FREELY FALLING DISKS. OCT 1963.  
BY WILLMARTH W F  
HANK N F  
HARVEY R L  
DDC NUMBER 420913  
INSTRUMENT AF 33C616>07628  
PROJ/TASK 7064 02

ARL 63 177  
ISRAEL INST OF TECH HAIFA  
CLASSICAL THEORY OF THE DIRAC ELECTRON. OCT 1963.  
BY GROSSMANN Z V I  
PERES A  
DDC NUMBER 417544  
INSTRUMENT AF 60AR -0177-63  
PROJ/TASK 7114 01

ARL 63 178  
AF OAR AFROSPACE RESEARCH LABS CHEMISTRY RESEARCH LAB  
WRIGHT-PATTERSON AFB OHIO  
SINGLET-SINGLET ENERGY TRANSFER IN FLUID SOLUTIONS.  
OCT 1963.  
J CHEM PHYS 38 10 2536-2541 MAY 1963  
BY DUBOIS J T  
COX M  
DDC NUMBER 419750  
PROJ/TASK 7013 03

ARL 63 179  
AF OAR AFROSPACE RESEARCH LABS CHEMISTRY RESEARCH LAB  
WRIGHT-PATTERSON AFB OHIO  
TRIPLET STATE OF BENZENE. OCT 1963.  
J CHEM PHYS 38 10 2541-2547 MAY 1963  
BY DUBOIS J T  
WILKINSON F  
DDC NUMBER 419749  
PROJ/TASK 7013 03

ARL 63 180  
AF OAR AFROSPACE RESEARCH LABS CHEMISTRY RESEARCH LAB  
WRIGHT-PATTERSON AFB OHIO  
THE ATOM CONNECTIVITY MATRIX <ACMCP> AND ITS CHARACTERISTIC  
POLYNOMIAL <ACMCP> - A NEW COMPUTER-ORIENTED CHEMICAL  
NOMENCLATURE. OCT 1963.  
J AM CHEM SOC 85 2012 1963  
BY SPIATER L  
DDC NUMBER 419311  
PROJ/TASK 7073 01

ARL 63 181  
YALE U NEW HAVEN CONN  
RESONANCE PHENOMENA IN A GASEOUS DISCHARGE IN A  
STRONG MAGNETIC FIELD.  
J APPL PHYS 44 5 1470-1479 MAY 1963  
BY BEFFEN R  
GOLDMAN D  
OSTER L  
DDC NUMBER 419748  
INSTRUMENT AF 33C657>07271  
PROJ/TASK 7073 01

ARL 63 182  
PARIS U FRANCE  
DYNAMICS OF NONLINEAR PLASMA OSCILLATIONS. OCT 1963.  
BY KALMAN G  
TOULOUSE G  
DDC NUMBER 417567  
INSTRUMENT AF 61C052>00613  
PROJ/TASK 7073 03

ARL 63 183  
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ONE-DIMENSIONAL FERMION DENSITY FORMULA. OCT 1963.  
J CHEM PHYS 38 8 2016-2019 APR 1963  
BY PAYNE H  
DDC NUMBER 419312  
PROJ/TASK 7112 03

ARL 63 184  
ISRAEL INST OF TECH HAIFA  
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BY PERES A  
DDC NUMBER 417563  
INSTRUMENT AF 60AR -0107-63  
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ON THE INVERSION OF CYCLIC MATRICES. OCT 1963.  
BY CALAIS J-I  
APPEL K  
DDC NUMBER 417992  
INSTRUMENT AF 61C052>00351  
PROJ/TASK 7112 02

ARL 63 187  
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HEAT TRANSFER IN RAREFIED GAS FLOW.  
RES HEAT TRANSFER BERGAMON PRESS LONDON 1963  
BY PROBSTEIN R F  
INSTRUMENT AF 33C657>07215  
PROJ/TASK 7064 01

ARL 63 188  
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AN INVESTIGATION OF METHODS OF USING A GRAPHITE  
RESISTANCE HEATER WITH AIR. OCT 1963.  
BY VAS I F  
BOGDANOFF S M  
INSTRUMENT AF 33C657>08B18  
PROJ/TASK 7065 01

ARL 63 189  
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THEORETICAL OPERATING RANGES AND CALIBRATION RESULTS OF THE  
ADL TWENTY-INCH HYPERSONIC WIND TUNNEL. OCT 1963.  
BY TEE F R JR  
BROWN D L  
TOKEN K H  
HOFMEYER W  
INSTRUMENT AF 33C616>08A53  
PROJ/TASK 7064 01

ARL 63 190  
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RESEARCH LAB WRIGHT-PATTERSON AFB OHIO  
REACTIONS OF ZIRCONIA AND TITANIUM AT ELEVATED TEMPERATURES  
J AM CERAM SOC 46 301-307 JUL 1963  
BY RUIH R  
PROJ/TASK 7022 02

ARL 63 191  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
RECENT RESULTS OF STUDIES OF THE TRAVELING WAVE PUMP.  
AJAA J 63-281 JUN 1963  
BY COVERT F F  
ROEDERER L R  
HALDEMAN C W  
INSTRUMENT AF 33C657>07975  
PROJ/TASK 7065 01

ARL 63 192  
WISCONSIN U MADISON  
THE EXACT EXPANSION OF THE ELECTRONIC ENERGY OF  
ONE-ELECTRON DIATOMIC MOLECULES IN POWERS OF THE  
INTERNUCLEAR SEPARATION. NOV 1963.  
BY BROWN W R  
STEINER F  
INSTRUMENT AF 33C657>07311  
PROJ/TASK 7013 01

ARL 63 193  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
BOUNDARY CONDITIONS AT THE OUTER EDGE OF THE BOUNDARY  
LAYER ON BLUNTED CONICAL BODIES. AUTHOR-S REPLY TO COMMENT  
BY M. VINKOIR.  
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LIBBY P A  
DDC NUMBER 422250  
INSTRUMENT AF 33C616>07661  
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AF OAR AFROSPACE RESEARCH LABS  
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RECTANGULAR DISTRIBUTION. NOV 1963.  
BY RINDEN D R  
DDC NUMBER 426107  
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BY MERLITZ S I  
DDC NUMBER 420544  
INSTRUMENT AF 10A9 -0109-62  
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DDC NUMBER 420545  
INSTRUMENT AF 10A9 -0109-62  
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- 47L 63 197  
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LOW ENERGY ELECTRON DIFFRACTION FROM SINGLE CRYSTAL SURFACES, 1. APPARATUS DESIGN, NOV 1963  
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FLAYO D F  
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DDC NUMBER 426752  
INSTRUMENT AF 33C657510708  
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BY HARTIGER T H  
HENRY I G  
DDC NUMBER 423974  
INSTRUMENT AF 61C052500133  
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- 47L 63 199  
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SHOCK STRUCTURE AND THE LEADING EDGE PROBLEM,  
DDC INTERM BARRETT GAS DYNAMICS SYMP 3RD VOL II 1963  
BY BRONKHOFIN D F  
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DDC NUMBER 423828  
INSTRUMENT AF 33C657507215  
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AN EXPERIMENTAL INVESTIGATION OF THE TURBULENT MIXING OF NONHOMOGENEOUS COAXIAL JETS, AUG 1963  
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- 47L 63 201  
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THE FIRST ORDER DENSITY MATRIX FOR A PROJECTED SINGLE DETERMINANT, NOV 1963  
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DDC NUMBER 422045  
INSTRUMENT AF 61C052500351  
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- 47L 63 202  
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A STUDY OF THE NATURAL SPIN ORBITALS OF ATOMS IN LS-JJ- AND INTERMEDIATE COUPLING, NOV 1963  
BY MICHA O A  
DDC NUMBER 422202  
INSTRUMENT AF 61C052500351  
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- 47L 63 203  
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BY BERGLUND E  
JYOTI G R  
WESTERLIND S  
DDC NUMBER 422407  
INSTRUMENT AF 10A9 -0081-63  
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- 47L 63 204  
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BY GILDEROS I N  
DDC NUMBER 423744  
INSTRUMENT AF 33C657510832  
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- 47L 63 205  
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A BASIC STUDY OF SLENDER CHANNEL ELECTROGASDYNAMICS, NOV 1963  
BY KAMM R  
DDC NUMBER 422047  
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DDC NUMBER 423974  
INSTRUMENT AF 61C052500443  
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BY RAK T A  
NIELSEN S P  
ANDERSON V  
DDC NUMBER 422731  
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BY RIEPER D R  
DDC NUMBER 423974  
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DDC NUMBER 423781  
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- 47L 63 214  
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DDC NUMBER 424474  
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DDC NUMBER 425379  
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DDC NUMBER 427751  
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BY MULLIC F R  
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DDC NUMBER 427810  
INSTRUMENT AF 336616307023  
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DDC NUMBER 427611  
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BY LOWEN D O  
DDC NUMBER 426773  
INSTRUMENT AF 616052500351  
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BY ROYER D O  
HEINER J  
HEDWALL G  
DDC NUMBER 426711  
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BY GREGGON H  
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DDC NUMBER 427145  
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INSTRUMENT AF 336616307023  
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BY GLENN A R  
DALE R G  
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DDC NUMBER 431186  
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JACOB R F  
DDC NUMBER 430613  
INSTRUMENT AF 336657509962  
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J FLUID MECH 16 4 497-520 1963  
BY SUTERA G P  
MAYER R F  
KESTIN J  
DDC NUMBER 427143  
INSTRUMENT AF 336616307741  
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BY VIKH N V  
DDC NUMBER 430681  
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MONTHLY NOTICES ROY ASTRON SOC 126 2 177-196 1963  
BY CHYZAK S I  
KOPPEL T V  
DDC NUMBER 428162  
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DDC NUMBER 426773  
INSTRUMENT AF 616052500351  
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BY THOMPSON A W  
DDC NUMBER 430620  
INSTRUMENT AF 616052500657  
PROJ/TASK 7116 01

ARL 63 245  
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BY ROYER D O  
INSTRUMENT AF 336657507650  
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ARL 63 246  
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BY LOWEN D O  
DDC NUMBER 429228  
INSTRUMENT AF 616052500351  
PROJ/TASK 7112 02

ARL 63 247  
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BY COLEMAN A J  
INSTRUMENT AF 616052500351  
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RADIATION ENGINEERING LAB WAYNARD MASS  
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DDC NUMBER 406290  
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AFCL 62 0157  
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PROJ/TASK 461946191

AFCL 62 0511  
RENSSELAER POLYTECHNIC INST TROY N Y  
EFFECTS OF THE ATMOSPHERE ON RADIO ASTRONOMICAL SIGNALS  
30 APR 1962  
BY FLECHNER R  
OSHIMA M  
ROARK T P  
DFJONG H  
DDC NUMBER 296231  
INSTRUMENT AF 19<604>08055  
PROJ/TASK 556146305

AFCL 62 0515  
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BY VIGANTS A  
SCHLESINGER S P  
INSTRUMENT AF 19<604>03079  
PROJ/TASK 4600

AFCL 62 0520  
NORTH AMERICAN AVIATION INC LOS ANGELES CALIF  
INVESTIGATION OF THE EFFECTS OF ADVANCED AIRCRAFT DESIGN  
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DDC NUMBER 334116  
INSTRUMENT AF 19<604>08025  
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AFCL 62 0560  
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1962  
BY BIALLY T  
DDC NUMBER 291782  
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AFCL 62 0597  
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DDC NUMBER 288145  
INSTRUMENT AF 19<604>08046  
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AFCL 62 0948  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
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BORDEN T R JR  
DDC NUMBER 401651  
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AFCL 62 0697  
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AFCL 62 0915  
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BY MISS D R  
DDC NUMBER 295556  
INSTRUMENT AF 19<604>03906  
PROJ/TASK 5620 02

AFCL 62 0575  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
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BY JOHNSON A D  
DDC NUMBER 299003  
PROJ/TASK 4621

AFCL 62 0996  
RAYTHEON CO NORWOOD MASS  
THE COMPUTER SIMULATION OF HF MISSILE SIGNATURES <U> JUN  
1962, SECRET  
BY GROSSI M D  
LOMBARDINI P P  
DOWIE R J  
GUNTHER R C  
IMANOWICZ M A  
INSTRUMENT AF 19<604>05984  
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AFCL 62 0557  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
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CLASSIFIED PROCEEDINGS OF THE SECOND SYMPOSIUM ON THE  
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BY FILTS C F JR  
DDC NUMBER 336042  
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AFCL 62 0542  
RAYTHEON CO NORWOOD MASS  
ACOUSTIC WAVE PROPAGATION IN THE IONOSPHERE PRELIMINARY  
DESIGN FOR LABORATORY EXPERIMENTS <U> MAY 1962, SECRET  
BY ATHANIS T C  
KELLY J G  
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AFCL 62 0543  
RAYTHEON CO NORWOOD MASS  
WAVE PROPAGATION IN A PARTLY IONIZED GAS <U> MAY 1962  
SECRET  
BY TANENBAUM B S  
INSTRUMENT AF 19<604>05984  
PROJ/TASK 464946491

AFCL 62 0540  
HARVARD U CAMBRIDGE MASS  
PERIODIC CYLINDER ARRAYS AS TRANSMISSION LINES, 15 JUN 1962  
BY SHEPHERD J  
INSTRUMENT AF 19<604>04110  
PROJ/TASK 5635 02

AFCL 62 0549  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
A PHRASE - STRUCTURE LANGUAGE TRANSLATOR, AUG 1962  
BY RASTIAN A L JR  
DDC NUMBER 293843  
PROJ/TASK 4641

AFCL 62 0551  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
ON CONJUNCTIVE NOMINALIZATIONS IN ENGLISH, AUG 1962  
BY JENKINS R A  
DDC NUMBER 298745  
PROJ/TASK 4610

AFCL 62 0555  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
MAGNETIC LOSS PHENOMENA IN FERROMAGNETIC MATERIALS, JUL  
1962  
BY EPSTEIN D J  
DDC NUMBER 400625  
INSTRUMENT AF 19<604>05482  
PROJ/TASK 562056203

AFCL 62 0561  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
ELECTRICAL RESISTIVITY OF SEMICONDUCTING DIAMOND, SEP 1962  
BY JOHNSON A D  
LITTLER J R  
WIELMOWER J V  
DDC NUMBER 407912  
PROJ/TASK 5621 04

AFCL 62 0567  
RAYTHEON CO NORWOOD MASS  
HF RADAR OBSERVATIONS OF MISSILE LAUNCHES <U> JUL 1962  
SECRET  
DDC NUMBER 334498  
INSTRUMENT AF 19<604>05984  
PROJ/TASK 464946491

AFCL 62 0575  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
RADIATION FROM SEMI-INFINITE SLOT-EXCITED PLASMA SHEATH  
CONFIGURATIONS, 17 MAY 1962  
BY OLINER A A  
DDC NUMBER 290560  
INSTRUMENT AF 19<604>04143  
PROJ/TASK 5635 01

AFCL 62 0585  
TUFTS U MEDFORD MASS  
SPECTROSCOPIC INVESTIGATIONS OF SOLID STATE SURFACES  
CONTAINING ABSORBED MOLECULES, 31 MAY 1962  
BY WILSON M K  
DDC NUMBER 291460  
INSTRUMENT AF 19<604>04063  
PROJ/TASK 562056204

AFCL 62 0595  
HARVARD U CAMBRIDGE MASS  
FRESNEL GAIN OF APERTURE ANTENNA, 21 MAY 1962  
BY SOEJIMA Y  
DDC NUMBER 291956  
INSTRUMENT AF 19<604>04110  
PROJ/TASK 5635 02

AFCL 62 0598  
BROWN U PROVIDENCE R I  
ON THE SOLUTION OF A TRANSCENDENTAL EQUATION ARISING IN  
THE THEORY OF SCATTERING BY A DIELECTRIC CYLINDER, JUN 1962  
BY STREIFER W  
KOOTIS R D  
INSTRUMENT AF 19<604>04961  
PROJ/TASK 5635 02

AFCL 62 0643  
MICHIGAN STATE UNIV  
FALLING SPHERE EXPERIMENT FOR UPPER-AIR DENSITY  
INSTRUMENTATION DEVELOPMENTS  
BY SCHULTE H F  
ROBINSON D A  
WAGENFEL J L  
DDC NUMBER 291694  
INSTRUMENT AF 19<604>06185  
PROJ/TASK 669066900

AFCL 62 0670  
PENNSYLVANIA STATE U UNIVERSITY PARK  
SUNRISE GEOMETRY AND THE OPTICAL DEPTH FACTOR, JUL 1962  
BY SWIDLER W  
INSTRUMENT AF 19<604>04563  
PROJ/TASK 8653 01

AFCL 62 0680  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
CLOUD INTERPRETATION FROM SATELLITE ALTITUDES, JUL 1962  
BY CONOVER J H  
DC NUMBER 292036  
PROJ/TASK 6679

AFCL 62 0691  
SASKATCHEWAN U SASKATOON CANADA  
THE SEASONAL VARIATION OF THE TWILIGHT SO. ION AIRFLOW IN  
THE SOUTHERN HEMISPHERE  
BY TINSLEY B A  
JONES A V  
DC NUMBER 403573  
INSTRUMENT AF 19<604>07265  
PROJ/TASK 76617661

AFCL 62 0692  
SASKATCHEWAN U SASKATOON CANADA  
RELATIVE ABUNDANCES OF LI, NA AND K IN THE UPPER  
ATMOSPHERE  
BY SULLIVAN M H  
MUNYEN D M  
DC NUMBER 403575  
INSTRUMENT AF 19<604>07265  
PROJ/TASK 766176612

AFCL 62 0693  
SASKATCHEWAN U SASKATOON CANADA  
OBSERVATIONS OF  $N_2^+$  TWILIGHT AND SUNLIT AURORAL  
BY LITTLE E A  
MUNYEN D M  
DC NUMBER 403577  
INSTRUMENT AF 19<604>07265  
PROJ/TASK 766176612

AFCL 62 0694  
SASKATCHEWAN U SASKATOON CANADA  
THE PRODUCTION OF  $N_2^+$  IN THE ATMOSPHERE, MAY 1962  
BY MUNYEN D M  
DC NUMBER 404978  
INSTRUMENT AF 19<604>07265  
PROJ/TASK 766176612

AFCL 62 0695  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
ARCTIC EARTH SCIENCE INVESTIGATIONS, CENTRUM SO, NORTHEAST  
GREENLAND, 1960, JUL 1962  
BY NEEDLEMAN S H  
DC NUMBER 292749  
PROJ/TASK 7628

AFCL 62 0700  
RADIO CORP OF AMERICA BURLINGTON MASS  
INVESTIGATION OF TRANSPORTABLE SEARCH RADAR AND SIF  
EQUIPMENT, 15 JUN 1961 THROUGH 3 APR 1962  
DC NUMBER 401109  
INSTRUMENT AF 19<604>08020  
PROJ/TASK 212446227

AFCL 62 0709  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
QUARTERLY PROGRESS AND STATUS REPORT, APR THROUGH JUN  
15 JUL 1962  
INSTRUMENT AF-EOAR -0082-62  
PROJ/TASK 4610 02

AFCL 62 0712  
NEW YORK U NEW YORK  
A STUDY OF THE FAR INFRARED PROPERTIES OF CRYSTALS, 1 MAR  
TO 31 MAY 1962  
BY ROHRBAUGH J H  
INSTRUMENT AF 19<604>02673  
PROJ/TASK 562156216

AFCL 62 0718  
ADVANCED KINETICS INC COSTA MESA CALIF  
PRODUCTION OF MILLIMETER AND SUBMILLIMETER ELECTROMAGNETIC  
WAVES BY THE INTERACTION OF PLASMA AND ELECTRON BEAMS WITH  
HIGH INTENSITY PULSED MAGNETS  
BY MANIER R W  
DC NUMBER 401191  
INSTRUMENT AF 19<604>07406  
PROJ/TASK 4619 02

AFCL 62 0721  
COLORADO U BOULDER  
THE MAGNETIC FIELD OF JUPITER, 31 JAN 1962  
BY WARWICK J W  
DC NUMBER 5406  
INSTRUMENT AF 19<628>00224  
PROJ/TASK 5631

AFCL 62 0724  
SYRACUSE U RESEARCH INST N Y  
PROBABILISTIC NETWORK STUDY - SYSTEM RELIABILITY, AUG 1962  
BY REZA F M  
DC NUMBER 296975  
INSTRUMENT AF 19<604>06169  
PROJ/TASK 563256323

AFCL 62 0725  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
AN ELECTROMECHANICAL METHOD OF SCANNING THE STRETCH ARRAY  
SEP 1962  
BY POIRIER J L  
DC NUMBER 295078  
PROJ/TASK 4642

AFCL 62 0728  
MONTANA STATE COLL BOZEMAN  
ION CYCLING BEHAVIOR IN 1-DIMENSIONAL, BILATERAL INTERACTIVE  
NETWORKS, AUG 1962  
BY KILMER W L  
DC NUMBER 294381  
INSTRUMENT AF 19<604>06619  
PROJ/TASK 5632 02

AFCL 62 0731  
F AND M SCIENTIFIC CORP AVONDALE PA  
A COMPLETELY CONTINUOUS CHROMATOGRAPH FOR PURIFICATION OF  
BORON COMPOUNDS, AUG 1962  
BY PETERS J  
DEBBRECHT F J  
INSTRUMENT AF 19<604>08045  
PROJ/TASK 4608 02

AFCL 62 0733  
RHODE ISLAND U KINGSTON  
THE SURFACE WAVE ANTENNA AS A BOUNDARY VALUE PROBLEM, SEP  
1962  
BY KANE J  
DC NUMBER 294317  
INSTRUMENT AF 19<604>07983  
PROJ/TASK 5635 02

AFCL 62 0737  
SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
EXCITATION OF WAVES IN A HOT PLASMA BY AN ELECTRIC DIPOLE  
SFP 1962  
BY KUEHL H H  
DC NUMBER 291821  
INSTRUMENT AF 19<604>06195  
PROJ/TASK 4642 02

AFCL 62 0740  
NEW YORK U NEW YORK  
FAR FIELD AMPLITUDES AND INVERSE DIFFRACTION THEORY, SEP  
1962  
BY KARP S N  
DC NUMBER 297984  
INSTRUMENT AF 19<604>05238  
PROJ/TASK 5635 02

AFCL 62 0741  
MOTOROLA INC PHOENIX ARIZ  
EPITAXIAL CONTROL SYSTEM, 14 JUN 1962  
BY JACKSON D M JR  
INSTRUMENT AF 19<604>08351  
PROJ/TASK 4608 04

AFCL 62 0742  
NEW YORK U NEW YORK  
THE ESTIMATION PROBLEM IN NULL-ZONE RECEPTION FEEDBACK  
SYSTEMS, 15 AUG 1962  
BY METZNER J J  
MORGAN T C  
DC NUMBER 290325  
INSTRUMENT AF 19<604>06188  
PROJ/TASK 4610 03

AFCL 62 0744  
COLLINS RADIO CO ALPHA CORP RICHARDSON TEX  
4-WHEELS MODERNIZATION, 14 AUG 1962  
BY MOLLAN R W  
TREA R  
INSTRUMENT AF 19<604>08019  
PROJ/TASK 212446518

AFCL 62 0745  
COLORADO U BOULDER  
IMPEDANCE OF A MONOPOLE ANTENNA WITH A RADIAL-WIRE GROUND  
SYSTEM ON AN IMPERFECTLY CONDUCTING GROUND, 24 AUG 1962  
BY JOHNSON C A  
MALEY S J  
KING R J  
DC NUMBER 294960  
INSTRUMENT AF 19<604>04556  
PROJ/TASK 563556350

AFCL 62 0746  
NEW YORK U NEW YORK  
A STUDY OF THE FAR INFRARED PROPERTIES OF CRYSTALS, 1 SEP  
1957 TO 31 AUG 1962  
BY ROHRBAUGH J H  
DC NUMBER 288598  
INSTRUMENT AF 19<604>02673  
PROJ/TASK 562156216

AFCL 62 0747  
CALIFORNIA INST OF TECH PASADENA  
LIGHT SCATTERING FROM DIELECTRIC FILM LASER MIRRORS, 1 SEP  
1962  
BY SPECHT W A JR  
DC NUMBER 298726  
INSTRUMENT AF 19<604>08052  
PROJ/TASK 4600 06

AFCL 62 0748  
CALIFORNIA INST OF TECH PASADENA  
A MODIFIED FARRY-PEROT INTERFEROMETER AS A DISCRIMINATION  
FILTER AND A MODULATOR FOR LONGITUDINAL MODES, 1 SEP 1962  
BY LOTSCH M K V  
DC NUMBER 296948  
INSTRUMENT AF 19<604>08052  
PROJ/TASK 4600 06

AFCL 62 0752  
SPACE TECH LABS INC REDONDO BEACH CALIF  
THE STUDY OF A METHOD TO REDUCE ELECTRON DENSITY IN THE  
IONOSPHERIC D-REGION BY MEANS OF HIGH-POWERED GROUND-BASED  
TRANSMITTERS, SEP 1962  
BY MOLMUD P  
ALTSMULER S  
GARDNER J H  
INSTRUMENT AF 19<604>08844

AFCL 62 0754  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
REDUCTION OF RADAR SCATTER FROM RESONANT OBJECTS BY  
REACTIVE LOADING <U>, OCT 1962, SECRET  
BY SLETTEN C J  
BLACKSMITH P  
MOLT F S  
GORR R R  
DC NUMBER 333567  
PROJ/TASK 4600 01

AFCL 62 0758  
AVCO CORP WILMINGTON MASS  
THE GENERATION AND EFFECT OF ELECTROSTATIC FIELDS DURING  
AN AURORAL DISTURBANCE, SEP 1962  
BY SWIFT D W  
DC NUMBER 288669  
INSTRUMENT AF 19<604>04092  
PROJ/TASK 4603 04

AFCL 62 0759  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
RADIATION FROM A UNIAXIALLY ANISOTROPIC PLASMA HALF SPACE  
27 AUG 1962  
BY PFLSEN L R  
DC NUMBER 294877  
INSTRUMENT AF 19<604>04143  
PROJ/TASK 5635 01

AFCL 62 0760  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
ON THE THEORY OF RADIATION FROM SOURCES IN PLANAR STRATIFIED  
ANISOTROPIC PLASMA MEDIA, 25 SEP 1962  
BY ARBEL F  
PFLSEN L R  
DC NUMBER 295075  
INSTRUMENT AF 19<604>04143  
PROJ/TASK 5635 01

AFCL 62 0761  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
RADIATION FROM A DIPOLE IN AN INFINITE, HOMOGENEOUS,  
ANISOTROPIC PLASMA, 25 SEP 1962  
BY ARBEL F  
PFLSEFM L B  
INSTRUMENT AF 19<604>04143  
PROJ/TASK 5635 01

AFCL 62-0762  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
MODAL ANALYSIS AND SYNTHESIS OF ELECTROMAGNETIC FIELDS, 24  
SEP 1962  
BY PFLSEFM L B  
MARCUVITZ M  
DDC NUMBER 294876  
INSTRUMENT AF 19<604>07499  
PROJ/TASK 4600 04

AFCL 62 0763  
COLORADO U BOULDER  
THE USE OF STATISTICAL METHODS IN THE DETERMINATION OF THE  
PARAMETERS OF LINEAR MICROWAVE  
BY MALEY S W  
DDC NUMBER 294992  
INSTRUMENT AF 19<604>04556  
PROJ/TASK 5635 01

AFCL 62 0769  
DOUCETTE F I ASSOC INC CHATHAM N J  
A QUANTITATIVE STUDY OF THE EVOLUTION OF GASES FROM  
ELECTRON TUBES AND MATERIALS, 18 JUL 1962  
BY GRIBBS W J  
SNIDER G H  
DDC NUMBER 291660  
INSTRUMENT AF 19<628>00326  
PROJ/TASK 461946190

AFCL 62 0776  
EMERSON-CUMMINGS INC CANTON MASS  
M-WAVES ON AN ANISOTROPIC DIELECTRIC SLAB, OCT 1962  
BY LUOMA F J  
WASON S J  
DDC NUMBER 411259  
INSTRUMENT AF 19<628>00463  
PROJ/TASK 4600 04

AFCL 62 0777  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
ASPECT-SENSITIVE SPREAD AND MULTIPATH DELAY ON OFF-AZIMUTH  
OF ARCTIC SIGNALS LARGELY ABOVE THE MUF, OCT 1962  
PROC NATL CONF MIL ELECTRONICS 6TH WASH DC 26 JUN 1962  
BY MARSH H S  
SMIRALUS R A  
CORNIFER R J  
DDC NUMBER 298629  
PROJ/TASK 5631

AFCL 62 0778  
TRG INC SYOSSET N Y  
RESONANCES OF THE FARRY-PELOT LASER, OCT 1962  
BY BARONE S R  
DDC NUMBER 293401  
INSTRUMENT AF 19<604>08817  
PROJ/TASK 464546451

AFCL 62 0779  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
CAUSALITY, PHYSICAL REALIZABILITY, AND STABILITY, OCT 1962  
BY POST F J  
DDC NUMBER 293844  
PROJ/TASK 5635

AFCL 62 0780  
CALIFORNIA U BERKELEY  
FINAL REPORT, 1 JUN 1959 TO 31 MAY 1962, 1 JUN 1962  
BY ABRGEM A B  
AFCOER C A  
DDC NUMBER 411803  
INSTRUMENT AF 19<604>05466  
PROJ/TASK 563256320

AFCL 62 0781  
SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
THE EXTERNAL FIELD PRODUCED BY AN ARBITRARY SLOT ON A  
DIELECTRIC COATED ELLIPTIC CYLINDER, SEP 1962  
BY YEM C W H  
DDC NUMBER 291820  
INSTRUMENT AF 19<604>06195  
PROJ/TASK 4642 02

AFCL 62 0785  
WASHINGTON U SEATTLE  
RADIATION FROM SOURCES IN MAGNETOPLASMA WITH A SEPARATION  
BOUNDARY, JUN 1962  
BY TYRAS G  
SWARM H M  
ISHIMARU A  
DDC NUMBER 297018  
INSTRUMENT AF 19<604>04098  
PROJ/TASK 5635 03

AFCL 62 0786  
LIDPSALA U SWEDEN  
ANALYSIS OF THE VARIATIONS OF THE MAGNETIC FIELD OF  
LIGHTNING DISCHARGES AND VARIATIONS OF THE ELECTROMAGNETIC  
FIELD AT DISTANCES FROM LIGHTNING DISCHARGES, 10 JUN 1962  
BY NORINDER H  
DDC NUMBER 298782  
INSTRUMENT AF 61<052>00171  
PROJ/TASK 463156311

AFCL 62 0789  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
ON THE PERCEPTION OF SWEDISH CONSONANTS IN INTERVOCALIC  
POSITION, 1 MAR 1962  
BY OHMAN S  
DDC NUMBER 298990  
INSTRUMENT AF-EDAR -0082-62  
PROJ/TASK 4610 02

AFCL 62 0790  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
SPEECH ANALYSIS AND SYNTHESIS, 31 JAN 1962  
BY FANT C G W  
DDC NUMBER 298309  
INSTRUMENT AF 61<052>00342  
PROJ/TASK 4610 02

AFCL 62 0791  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
DESCRIPTIVE ANALYSIS OF THE ACOUSTIC ASPECTS OF SPEECH  
LOGOS 5 1 3-17 APR 62  
BY FANT C G W  
DDC NUMBER 404957  
INSTRUMENT AF 61<052>00342  
PROJ/TASK 4610 02

AFCL 62 0792  
TEXAS U AUSTIN  
A SOLUTION FOR ELF PROPAGATION IN THE EARTH-IONOSPHERE  
CAVITY BOUNDED BY AN INHOMOGENEOUS, ANISOTROPIC  
IONOSPHERIC MEDIUM, 31 OCT 1962  
BY CHAPMAN C W  
DDC NUMBER 297166  
INSTRUMENT AF 19<604>08038  
PROJ/TASK 5631 04

AFCL 62 0794  
WASHINGTON U SEATTLE  
UNIDIRECTIONAL WAVES IN ANISOTROPIC MEDIA AND THE  
RESOLUTION OF THE THERMODYNAMIC PARADOX, SEP 1962  
BY ISHIMARU A  
DDC NUMBER 297019  
INSTRUMENT AF 19<604>04098  
PROJ/TASK 5635 01

AFCL 62 0795  
NFW MEXICO INST OF MINING AND TECH SOCORRO  
EXAMPLES OF PRODUCTS OF SUMS AND PRODUCTS, SEP 1962  
BY SZF-HOU CHANG  
LIH-JYH WENG  
DDC NUMBER 296411  
INSTRUMENT AF 19<604>07494  
PROJ/TASK 4610 03

AFCL 62 0796  
PARKER MATHEMATICAL LABS INC CARLISLE MASS  
MATHEMATICAL DESCRIPTIONS OF POLARIZATION PART I  
CLASSICAL DESCRIPTION, AUG 1962  
BY ROWOME F H III  
DDC NUMBER 294312  
INSTRUMENT AF 19<604>07916  
PROJ/TASK 4608 02

AFCL 62 0799  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
ABSORBING MATERIAL USING PARALLEL RESISTANCE SHEETS, 14  
AUG 1962  
BY SUFTAK R  
GRIEMSMANN J W F  
DDC NUMBER 294856  
INSTRUMENT AF 19<604>07499  
PROJ/TASK 4600 04

AFCL 62 0800  
PENNSYLVANIA STATE U UNIVERSITY PARK  
NIGHTTIME LOWER IONOSPHERE ELECTRON DENSITY MEASUREMENTS  
BY RADIO WAVE PROPAGATION TO ASCENDING ROCKETS, 1 MAY 1962  
BY MFCHELY F A  
INSTRUMENT AF 19<604>04563  
PROJ/TASK 8605 01

AFCL 62 0806  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
OPTICAL PHYSICS LAB L G HANSCOM FIELD MASS  
SPECTRAL AND SPATIAL MEASUREMENTS OF INFRARED RADIATION (C)  
MAY 1962, SECRET  
BY BLOCK L C  
MARCOTT L P  
FRERISO C C  
DDC NUMBER 336569  
PROJ/TASK 4904

AFCL 62 0808  
PENNSYLVANIA STATE U UNIVERSITY PARK  
NIGHTTIME ELECTRON DENSITY-HEIGHT PROFILES FROM 300 KC/S  
POLARIZATION MEASUREMENTS, 15 JUN 1962  
BY STEVENS C H  
INSTRUMENT AF 19<604>04563  
PROJ/TASK 8605 01

AFCL 62 0829  
HARVARD U CAMBRIDGE MASS  
ACTIVE NITROGEN AT HIGH PRESSURE, 15 FEB 1962  
J CHEM PHYS 36 4 926-940 15 FEB 62  
BY NOXON J F  
INSTRUMENT AF 19<628>00310  
PROJ/TASK 766176614

AFCL 62 0825  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
HANSCOM FIELD MASS  
MEASUREMENT RANGE REQUIRED OF METEOROLOGICAL EQUIPMENT  
FPA 1962  
BY COHRT A  
SALMFLA M  
DDC NUMBER 404227  
PROJ/TASK 8626

AFCL 62 0826  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
PROJECT FIREFLY, VOL IV (C), AUG 1962, SECRET  
BY GOLOMR D  
DDC NUMBER 335100  
PROJ/TASK 7695

AFCL 62 0830  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
THE DEVELOPMENT OF AN OPERATIONAL CONTRAIL SUPPRESSION  
SYSTEM (C), AUG 1962, CONFIDENTIAL  
BY BIRSTEIN S J  
DDC NUMBER 335314  
PROJ/TASK 7695

AFCL 62 0831  
RWISSELAER POLYTECHNIC INST TROY N Y  
THEORETICAL ANALYSIS OF ELECTROCHEMICAL ENERGY CONVERSION  
SYSTEMS, 18 JUL 1962  
BY GREENE C R  
GREENE H D  
INSTRUMENT AF 19<604>08377  
PROJ/TASK 689466946

AFCL 62 0836  
PENNSYLVANIA STATE U UNIVERSITY PARK  
INTERPRETATION OF THE SIMULTANEOUS PHASE AND AMPLITUDE  
FLUCTUATIONS OF IONOSPHERICALLY REFLECTED 60 KC/S RADIO  
WAVES  
BY SAWCHICK W  
INSTRUMENT AF 19<604>04563  
PROJ/TASK 8605 01

APCRL 62 0897  
 MASSACHUSETTS INST OF TECH CAMBRIDGE  
 HEAT TRANSFER PROBE AS A TECHNIQUE TO DEMONSTRATE HMD  
 CONTAINMENT, JUL 1962.  
 BY RATHJFN K A DDC NUMBER 288699  
 INSTRUMENT AF 19C628>00221  
 PROJ/TASK 860886081

APCRL 62 0898  
 MASSACHUSETTS INST OF TECH CAMBRIDGE  
 AN EXPERIMENTAL STUDY OF A HIGH DENSITY PLASMA  
 IN A MAGNETIC PIPE, JUL 1962  
 BY SCHNEIDFMAN A M DDC NUMBER 288698  
 INSTRUMENT AF 19C628>00221  
 PROJ/TASK 860886081

APCRL 62 0899  
 TENNESSEE U KNOXVILLE  
 A REINVESTIGATION OF THE INFRARED SPECTRUM OF METHYL  
 CHLORIDE, AUG 1962  
 BY HOLLADAY T M INSTRUMENT AF 19C604>07801  
 PROJ/TASK 7670 02

APCRL 62 0897  
 TEXAS COLL OF A AND M COLLEGE STATION  
 TIME CHANGES IN A TEMPERATURE LATITUDE CLOUD AND WEATHER  
 SYSTEM AS REVEALED BY METEOROLOGICAL SATELLITE DATA  
 1 AUG 1962  
 BY RANDERSON D DDC NUMBER 294810  
 INSTRUMENT AF 19C604>08450  
 PROJ/TASK 669866982

APCRL 62 0899  
 SYRACUSE U N Y  
 1. RESEARCH CONCERNING INFRARED EMISSIVITY II,  
 ATMOSPHERIC OPTICAL NOISE MEASUREMENTS, 15 AUG 1962  
 BY PAULSON B ELLIS F  
 GINSBURG N INSTRUMENT AF 19C604>03908  
 PROJ/TASK 7670 03

APCRL 62 0872  
 BAYLOR U WACO TX  
 THE MECHANISM OF OXIDATION OF LOW MOLECULAR WEIGHT ORGANIC  
 COMPOUNDS AT PLATINUM ELECTRODES IN AQUEOUS SOLUTIONS  
 AUG 1962  
 BY FRANKLIN T C LIANG C INSTRUMENT AF 19C604>08414  
 PROJ/TASK 669466946

APCRL 62 0875  
 PERDUE CORP BALTIMORE MD  
 DEVELOPMENT OF A ROCKETSONDE INSTRUMENT PACKAGE FOR HIGH  
 ALTITUDE METEOROLOGICAL SOUNDING, JUL 1962  
 BY STODENHURF J M MCCOY B T  
 GREENE D R DDC NUMBER 294613  
 INSTRUMENT AF 19C604>08433  
 PROJ/TASK 667066703

APCRL 62 0877  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
 OPTICAL PHYSICS LAB L G MANSFORD FIELD MASS  
 TABLES OF THE BLACKBODY RADIATION FUNCTION FOR WAVENUMBER  
 CALCULATIONS, SEP 1962  
 BY WALKER R G DDC NUMBER 293842  
 PROJ/TASK 4904

APCRL 62 0879  
 MASSACHUSETTS INST OF TECH CAMBRIDGE  
 CONTINUED NUMERICAL STUDIES ON UNDERGROUND NUCLEAR  
 DETECTION AND FURTHER DIGITIZED SEISMIC DATA, 30 JUN 1963  
 BY SIMPSON S M JR INSTRUMENT AF 19C604>07378  
 PROJ/TASK 8652 03

APCRL 62 0880  
 POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
 PHOTOCHEMISTRY OF DYES, APR 1962  
 BY OSTER G K KARB G  
 DOBIN C INSTRUMENT AF 19C604>08016  
 PROJ/TASK 669466940

APCRL 62 0881  
 MASSACHUSETTS INST OF TECH CAMBRIDGE  
 BASIC SPECTRAL DATA FOR THE ROTATION BAND OF WATER VAPOR,  
 SEP 1962  
 BY KAPLAN L D INSTRUMENT AF 19C604>07993  
 PROJ/TASK 8603 03

APCRL 62 0886  
 MICHIGAN U ANN ARBOR  
 THE NATURE OF HIGH FREQUENCY EARTH NOISE  
 BY FRANTTI G P INSTRUMENT AF 19C628>00200  
 PROJ/TASK 865286524

APCRL 62 0887  
 PENNSYLVANIA STATE U UNIVERSITY PARK  
 A STATISTICAL STUDY OF APPARENT HORIZONTAL IONOSPHERIC  
 MOVEMENTS USING 300 KC/S RADIO WAVES, 1 OCT 1962  
 BY HAI-SUP INSTRUMENT AF 19C604>04563  
 PROJ/TASK 8603 01

APCRL 62 0888  
 GEORGETOWN U WASHINGTON D C  
 RESEARCH DIRECTED TOWARD GODETIC APPLICATIONS OF  
 ARTIFICIAL SATELLITES, NOV 1961.  
 BY HAYDEN F J INSTRUMENT AF 19C604>04155  
 PROJ/TASK 760076070

APCRL 62 0889  
 KAMAN AIRCRAFT CORP COLORADO SPRINGS COLO  
 TWO-POINT VARIABILITY OF WIND, JUL 1962  
 BY BUPELL C E DDC NUMBER 292158  
 INSTRUMENT AF 19C604>07282  
 PROJ/TASK 862486242

APCRL 62 0890  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
 L G MANSFORD FIELD MASS  
 VISUAL HIGH RESOLUTION OBSERVATIONS OF SUNSPOTS, SEP 1962.  
 BY MCINTOSH P S PROJ/TASK 7649

APCRL 62 0892  
 FORD MOTOR CO AERONAUTIC DIV NEWPORT BEACH CALIF  
 RESEARCH IN GEODESY AND GRAVITY, COMPUTER PROGRAMS FOR  
 ORBIT CORRECTION AND STATION LOCATION, AUG 1962.  
 BY MILTON C G EVANS J F  
 NICOLA L DDC NUMBER 419476  
 INSTRUMENT AF 19C604>07253  
 PROJ/TASK 860786071

APCRL 62 0894  
 GENERAL DYNAMICS CORP ASTRONAUTICS SAN DIEGO CALIF  
 MISSILE RADIATION IN THE LAUNCH PROBE CU>, 30 JUN 1962.  
 SECRET. INSTRUMENT AF 19C604>05554

APCRL 62 0896  
 PENNSYLVANIA STATE U UNIVERSITY PARK  
 DATA ACCURACIES AND WEIGHTING FACTORS AT 50 MB,  
 BY HOFFERMAN J R DDC NUMBER 289878  
 INSTRUMENT AF 19C604>07261  
 PROJ/TASK 864186418

APCRL 62 0897  
 AERONAUTICAL ICING RESEARCH LABS ARCATA CALIF  
 FOG STUDIES AT ARCATA, CALIFORNIA, UNDER OPERATION PEA  
 SOUP 1960-1962, AUG 1962.  
 INSTRUMENT AF 19C604>07210  
 PROJ/TASK 760576057

APCRL 62 0898  
 HAWAII U HONOLULU  
 STRATOSPHERIC TEMPERATURE VARIATION OVER THE TROPICAL  
 PACIFIC, AUG 1962.  
 BY CRUZ M DE LA DDC NUMBER 288139  
 INSTRUMENT AF 19C604>07229  
 PROJ/TASK 8641 15

APCRL 62 0900  
 GENERAL ELECTRIC CO ITHACA N Y  
 ROCKET-BORNE IONOSOUNDER EQUIPMENT DEVELOPMENT, AUG 1962.  
 BY HUMPHREY L C DDC NUMBER 290726  
 INSTRUMENT AF 19C604>07221  
 PROJ/TASK 4649 02

APCRL 62 0901  
 PICKARD AND BURNS INC WALTHAM MASS  
 RADIO WAVE REFLECTION STUDIES CU>, 15 OCT 1962, SECRET.  
 BY NEUBURGER A WILLIAMS J C INSTRUMENT AF 19C604>08341  
 PROJ/TASK 464946490

APCRL 62 0904  
 EITEL-MCCULLOUGH INC SAN CARLOS CALIF  
 SURFACE EXPLOSIONS ON SOLIDS BY HIGH-DENSITY ELECTRON  
 BOMBARDMENT, OCT 1962.  
 BY HILL D VOGEL S DDC NUMBER 292104  
 INSTRUMENT AF 19C628>01606  
 PROJ/TASK 4619 02

APCRL 62 0906  
 GENERAL ELECTRIC CO SCHENECTADY N Y  
 STUDY OF THE INTERACTION BETWEEN ELECTROMAGNETIC FIELDS  
 AND PLASMAS, 14 SEP 1962.  
 BY BREKON F-R ANDERSON J M DDC NUMBER 292714  
 INSTRUMENT AF 19C628>00247  
 PROJ/TASK 461946191

APCRL 62 0907  
 NORTHWESTERN U BOSTON MASS  
 DESIGN OF INPUT WAVEFORM TO YIELD TIME-LIMITED ORTHOGONAL  
 OUTPUTS, SEP 1962.  
 BY CAMPBELL J R DDC NUMBER 411224  
 INSTRUMENT AF 19C604>07494  
 PROJ/TASK 4610 03

APCRL 62 0908  
 POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
 LEAKY WAVES IN ELECTROMAGNETIC PHENOMENA, 2 AUG 1962.  
 BY OLINER A A DDC NUMBER 294831  
 INSTRUMENT AF 19C604>07499  
 PROJ/TASK 4600 04

APCRL 62 0909  
 JOHNS HOPKINS U BALTIMORE MD  
 REPRESENTATION AND ANALYSIS OF SIGNALS, PART XII, OCT 1962  
 BY HUGGINS W H DDC NUMBER 411401  
 INSTRUMENT AF 19C604>01941  
 PROJ/TASK 563256323

APCRL 62 0910  
 WESTINGHOUSE ELECTRIC CORP PITTSBURGH PA  
 ELECTRON SPIN-LATTICE RELAXATION AT DEFECT SITES. F  
 CENTERS IN SYNTHETIC QUARTZ AT 3 KILOCYCLES, 11 OCT 1962.  
 BY CASTLE J G JR FLOMAN D W  
 KLEMENS P G WELLS R A DDC NUMBER 297825  
 INSTRUMENT AF 19C628>01640  
 PROJ/TASK 4608 03

APCRL 62 0911  
 WELDON INC FALLS CHURCH VA  
 INVESTIGATION OF SPEECH PROCESSING STUDIES, OCT 1962.  
 BY FARLY D M STRAIGHT M A  
 KING D C DDC NUMBER 295171  
 INSTRUMENT AF 19C628>00214  
 PROJ/TASK 4610 02

APCRL 62 0912  
 TENNESSEE U KNOXVILLE  
 PARASTIC EXCITATION OF CONCENTRIC RING CIRCULAR ANTENNA  
 ARRAYS, 15 OCT 1962.  
 BY STEPHENS D R TILLMAN J D DDC NUMBER 293866  
 INSTRUMENT AF 19C628>00288  
 PROJ/TASK 4600 02

AFCL 62 0913  
TENNESSEE U KNOXVILLE  
RADIATION PATTERNS OF COMBINED CIRCULAR LOOP AND CIRCULAR  
DIPOLE ANTENNA ARRAYS, 15 OCT 1962.  
BY CHI-MAU CHFN  
DDC NUMBER 293867  
INSTRUMENT AF 19<628>00288  
PROJ/TASK 4600 02

AFCL 62 0914  
TENNESSEE U KNOXVILLE  
ON SYNTHESIS OF ISOTROPIC PATTERNS WITH CONCENTRIC RING  
CIRCULAR ARRAYS, 15 OCT 1962.  
BY ZAIDI S H R  
DDC NUMBER 293868  
INSTRUMENT AF 19<628>00288  
PROJ/TASK 4600 02

AFCL 62 0915  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
STUDIES IN THE THEORY OF SWITCHING CIRCUITS, 11 JUL 1962.  
BY SMITH F J  
DDC NUMBER 293869  
INSTRUMENT AF 19<604>08620  
PROJ/TASK 563256323

AFCL 62 0916  
LONDON U COLL ENGLAND  
COMPUTER PROCESSING OF ACOUSTIC AND LINGUISTIC INFORMATION  
IN AUTOMATIC SPEECH RECOGNITION, 31 MAR 1962.  
BY DENFS P  
DDC NUMBER 293449  
INSTRUMENT AF 61<514>01176  
PROJ/TASK 4600  
PROJ/TASK 461046102

AFCL 62 0917  
STANFORD RESEARCH INST MENLO PARK CALIF  
A RADIOLOGRAPHY OF GROUP III-V COMPOUNDS, VOL III.  
BY FREDRICKS W J  
DDC NUMBER 294727  
INSTRUMENT AF 19<604>07231  
PROJ/TASK 5620 01

AFCL 62 0918  
RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER  
PRINCETON N J  
THEORETICAL AND EXPERIMENTAL STUDY OF THE COMBINED HALL-  
MAGNETO RESISTANCE EFFECT, 31 OCT 1962.  
BY CHANG K K M  
DDC NUMBER 296133  
INSTRUMENT AF 19<628>00262  
PROJ/TASK 464546450

AFCL 62 0919  
CASE INST OF TECH CLEVELAND OHIO  
QUARTERLY PROGRESS REPORT, 1 JAN TO 31 MAR 1962, JUN 1962.  
BY UNZ M  
DDC NUMBER 292990  
INSTRUMENT AF 19<604>03887  
PROJ/TASK 563556351

AFCL 62 0920  
CASE INST OF TECH CLEVELAND OHIO  
QUARTERLY PROGRESS REPORT, 1 APR TO 30 JUN 1962, JUL 1962.  
BY UNZ M  
DDC NUMBER 292991  
INSTRUMENT AF 19<604>03887  
PROJ/TASK 563556351

AFCL 62 0921  
NEW YORK U NEW YORK  
FEEDBACK COMMUNICATION SYSTEMS, 14 NOV 1962.  
BY SHOOTER D  
DDC NUMBER 292119  
INSTRUMENT AF 19<604>06168  
PROJ/TASK 4610 03

AFCL 62 0923  
DOUGLASS E I ASSOC INC CHATHAM N J  
A QUANTITATIVE STUDY OF THE EVOLUTION OF GASES FROM  
ELECTRON TUBES AND MATERIALS, 31 OCT 1962.  
BY GRUBBS W J  
DDC NUMBER 297055  
INSTRUMENT AF 19<628>00326  
PROJ/TASK 461946199

AFCL 62 0924  
RAYTHEON CO WALTHAM MASS  
INVESTIGATION OF EFFECTS OF ION-INDUCED DEFECTS ON SURFACE  
REACTIONS. THE ADSORPTION OF OXYGEN ON GALLIUM ANTIMONIDE,  
19 OCT 1962.  
BY SHOOTER D  
DDC NUMBER 293265  
INSTRUMENT AF 19<604>08004  
PROJ/TASK 5620 03

AFCL 62 0925  
WESTINGHOUSE ELECTRIC CORP PITTSBURGH PA  
STUN TUNER IMPEDANCE MATCHING IN A HELIX CRYSTAT, 9 OCT  
1962.  
BY DE KLFRE J  
DDC NUMBER 411375  
INSTRUMENT AF 19<604>08826  
PROJ/TASK 4600 03

AFCL 62 0926  
WESTINGHOUSE ELECTRIC CORP PITTSBURGH PA  
A SIMPLE METHOD OF PROTECTING A SUPERHETERODYNE RECEIVER  
FROM PARALYSIS DURING PULSED RF APPLICATIONS, 10 OCT 1962.  
BY DE KLFRE J  
DDC NUMBER 411372  
INSTRUMENT AF 19<604>08826  
PROJ/TASK 4600 03

AFCL 62 0927  
RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER  
PRINCETON N J  
MAXIMIZING THE PERFORMANCE OF PHOTOCONDUCTORS.  
BY ANDERSON W M  
DDC NUMBER 295659  
INSTRUMENT AF 19<604>08353  
PROJ/TASK 4608 04

AFCL 62 0928  
NEW YORK U NEW YORK  
THE FIELD OF A DIPOLE ABOVE AN INFINITE CORRUGATED PLANE,  
NOV 1962.  
BY CHI T S  
DDC NUMBER 406140  
INSTRUMENT AF 19<604>05218  
PROJ/TASK 5635 02

AFCL 62 0929  
OXFORD U ENGLAND  
THE RAISING OF ANGULAR MOMENTUM DEGENERACY OF F-ELECTRON  
TERMS BY CUBIC CRYSTAL FIELDS, JAN 1962.  
BY LFA K R  
DDC NUMBER 298739  
INSTRUMENT AF 61<052>00125  
PROJ/TASK 5621 04

AFCL 62 0930  
OXFORD U ENGLAND  
PARAMAGNETIC RESONANCE SPECTRUM OF DIVALENT IRON IN ZINC  
FLUOSILICATE, FEB 1962.  
BY RUMINS R S  
DDC NUMBER 293848  
INSTRUMENT AF 61<052>00125  
PROJ/TASK 5621 04

AFCL 62 0931  
RAYTHEON CO NORWOOD MASS  
STUDY OF SATELLITE-BORNE HF RADAR, NOV 1962.  
BY DESMOND R J  
DDC NUMBER 334737  
INSTRUMENT AF 19<604>08827  
PROJ/TASK 464946491

AFCL 62 0932  
CASE INST OF TECH CLEVELAND OHIO  
STUDY OF CONTROL OF APERTURE FIELDS, 31 OCT 1962.  
BY PATTON J F  
DDC NUMBER 292989  
INSTRUMENT AF 19<604>03887  
PROJ/TASK 463556351

AFCL 62 0933  
STANFORD RESEARCH INST MENLO PARK CALIF  
DEVELOPMENT OF X-RAY FLUORESCENCE ANALYSIS TECHNIQUES FOR  
SMALL SAMPLES. A PROTOTYPE ATMOSPHERIC ELECTRON PROBE,  
31 OCT 1962.  
BY PASKELL T O  
DDC NUMBER 293426  
INSTRUMENT AF 19<604>08827  
PROJ/TASK 4619 01

AFCL 62 0935  
RAYTHEON CO WALTHAM MASS  
INVESTIGATION OF EFFECTS OF ION-INDUCED DEFECTS ON SURFACE  
REACTIONS - THE SPUTTERING OF COMPOUNDS, SEP 1962.  
BY WOLSKY S  
DDC NUMBER 294127  
INSTRUMENT AF 19<604>08004  
PROJ/TASK 5620 03

AFCL 62 0936  
OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
DRIFTING PLASMA MAGNETO-IONIC THEORY FOR OBLIQUE INCIDENCE  
31 OCT 1962.  
BY UNZ M  
DDC NUMBER 296403  
INSTRUMENT AF 19<604>07270  
PROJ/TASK 4691 02

AFCL 62 0937  
AVCO CORP WILMINGTON MASS  
POLAR CAP AND AURORAL ZONE ABSORPTION EVENTS DURING THE  
FIRST SIX MONTHS OF THE IGY.  
BY HILL G F  
DDC NUMBER 294127  
INSTRUMENT AF 19<604>04092  
PROJ/TASK 4603 04

AFCL 62 0938  
CALIFORNIA U BERKELEY  
A STATISTICAL ANALYSIS OF THE SYNCHRONIZATION OF DIGITAL  
RECEIVERS, 11 APR 1962.  
BY KANEKO M  
DDC NUMBER 411994  
INSTRUMENT AF 19<604>05466  
PROJ/TASK 563256320

AFCL 62 0939  
CALIFORNIA U BERKELEY  
A FEW PROBABILISTIC PROPERTIES OF MODULAR CIRCUITS, 30 APR  
1962.  
BY KANEKO M  
DDC NUMBER 403466  
INSTRUMENT AF 19<604>05466  
PROJ/TASK 563256320

AFCL 62 0940  
NEW YORK U NEW YORK  
THE APPLICATION OF CERTAIN RULER CONSTRUCTIONS TO THE  
POINCARÉ AND CAYLEY-KLEIN MODELS OF HYPERBOLIC GEOMETRY,  
7 JUL 1962.  
BY KAPLAN L J  
DDC NUMBER 298048  
INSTRUMENT AF 19<604>07486  
PROJ/TASK 5635 01

AFCL 62 0943  
NEW YORK U NEW YORK  
SCATTERING OF SHORT WAVES, NOV 1962.  
BY KELLER J R  
DDC NUMBER 298048  
INSTRUMENT AF 19<604>03495  
PROJ/TASK 5631 04

AFCL 62 0944  
RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER  
PRINCETON N J  
HIGH TEMPERATURE SEMICONDUCTOR RESEARCH, 31 OCT 1962.  
BY WETSBURG L R  
DDC NUMBER 297417  
INSTRUMENT AF 19<604>06152  
PROJ/TASK 460846088

AFCL 62 0945  
OXFORD U ENGLAND  
INVESTIGATION INTO THE ORIGIN OF CRYSTALLINE ELECTRIC  
FIELD EFFECTS ON RARE EARTH IONS. I. CONTRIBUTION FROM  
NEIGHBORING INDUCED MOMENTS, AUG 1962.  
BY HUTCHINGS M T  
DDC NUMBER 298722  
INSTRUMENT AF 61<052>00125  
PROJ/TASK 5621 04

AFCL 62 0946  
LITTON INDUSTRIES WALTHAM MASS  
INVESTIGATION OF AUTOMATION OF SPEECH PROCESSING FOR  
VOICE COMMUNICATIONS, 15 JUL 1961 THROUGH 14 OCT 1962.  
BY SFAFSTEIN G S  
DDC NUMBER 295571  
INSTRUMENT AF 19<604>08828  
PROJ/TASK 4610 02



AFCL 62 0967  
LONDON U COLL ENGLAND  
A STUDY OF THE REPRESENTATION OF ENGLISH VOVEL PHONEMES  
IN THE ORTHOGRAPHY.  
LANGUAGE SPFFCH 5 2 67-117 APR-JUN 1962  
BY HIGGINBOTTON E M  
DDC NUMBER 403579  
INSTRUMENT AF 61<514>01176  
PROJ/TASK 4600  
PROJ/TASK 4610 02

AFCL 62 0968  
LONDON U COLL ENGLAND  
FURTHER STUDIES IN INTONATION.  
LANGUAGE SPFFCH 5 1 JAN-MAR 1962  
BY DINES P  
MILTON-WILLIAMS J  
DDC NUMBER 403578  
INSTRUMENT AF 61<514>01176  
PROJ/TASK 4600  
PROJ/TASK 4610 02

AFCL 62 0969  
BROWN U PROVIDENCE R I  
INVESTIGATIONS OF SURFACE PROPERTIES OF SILICON AND OTHER  
SEMICONDUCTORS, NOV 1962.  
BY FARNWORTH M F  
DILLON J A JR  
DDC NUMBER 295674  
INSTRUMENT AF 19<604>05986  
PROJ/TASK 562056206

AFCL 62 0969  
BROWN U PROVIDENCE R I  
WORK FUNCTION AND OXYGEN ADSORPTION PROPERTIES OF NIOBIUM  
CRYSTALS, FEB 1963.  
BY DILLON J A JR  
OHAN R M  
DDC NUMBER 405928  
INSTRUMENT AF 19<604>05986  
PROJ/TASK 562056206

AFCL 62 0950  
TRG INC EAST BOSTON MASS  
APPLICATION OF FRESNEL ZONE THEORY TO MICROWAVE ANTENNA  
DESIGN, 15 NOV 1962.  
BY KAY A F  
DDC NUMBER 296973  
INSTRUMENT AF 19<604>08057  
PROJ/TASK 4600 02

AFCL 62 0951  
NATIONAL BUREAU OF STANDARDS BUILDING COLO  
THE RESONANT CHARACTERISTICS OF A CORRUGATED SPHERE, 23  
NOV 1962.  
BY WAIT J R  
JACKSON C M  
DDC NUMBER 405590  
INSTRUMENT PRO-61-568  
PROJ/TASK 563556350

AFCL 62 0952  
LEXINGTON LABS INC CAMBRIDGE MASS  
INVESTIGATION OF HIGH TEMPERATURE THERMAL EXPANSION  
DEVICES AND DESIGN OF A UNIT FOR USE WITH THERMAL IMAGE  
HEATING, 15 DEC 1962.  
BY FOLWELLER R C  
DDC NUMBER 296633  
INSTRUMENT AF 19<628>01616  
PROJ/TASK 5634 01

AFCL 62 0953  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
IMPROVED HIGH MASS RANGE RESOLUTION WITH AN OMEGATRON  
MASS SPECTROMETER, OCT 1962.  
BY BLOOM J M  
LUDINGTON C E  
PHIPPS R L  
DDC NUMBER 402906  
PROJ/TASK 5634

AFCL 62 0954  
HARVARD U CAMBRIDGE MASS  
SWITCHING PROPERTIES OF FERRITES AND GARNETS, 30 NOV 1962.  
BY RUBENSTEIN M  
DDC NUMBER 408946  
INSTRUMENT AF 19<604>05487  
PROJ/TASK 563356332

AFCL 62 0955  
COMPUTER ASSOC INC WORWUN MASS  
SUMMARY OF A METHOD FOR THE AUTOMATIC CONSTRUCTION OF  
SYNTAX DIRECTED COMPILERS, DEC 1962.  
BY WARSHALL R  
DDC NUMBER 296186  
INSTRUMENT AF 19<628>00419  
PROJ/TASK 4641 02

AFCL 62 0957  
HP ASSOC PALO ALTO CALIF  
INVESTIGATION OF HOT ELECTRON EMITTER, 1 SEP TO 30 NOV  
1962.  
DDC NUMBER 295746  
INSTRUMENT AF 19<628>01637  
PROJ/TASK 4608 06

AFCL 62 0958  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
RADIATION PATTERN OF A SLIT IN A GROUND PLANE COVERED BY  
A PLASMA LAYER, DEC 1962.  
BY OHMURA M  
DDC NUMBER 298965  
PROJ/TASK 4642

AFCL 62 0959  
GEO-SCIENCE INC LEXINGTON MASS  
DEPTH RESISTIVITY INVESTIGATION IN NEBRASKA, DEC 1962.  
BY CANTWELL T  
DULANEY F N  
DDC NUMBER 294748  
INSTRUMENT AF 19<628>02351  
PROJ/TASK 4610 01

AFCL 62 0960  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
EXPERIMENTAL TUNNEL-DIODE CONVERTER FOR CONVERSION OF  
X-BAND FREQUENCIES TO UHF, DEC 1962.  
BY BLAESER G H  
DDC NUMBER 404287  
PROJ/TASK 4610

AFCL 62 0961  
NEW YORK U NEW YORK  
THE FIELD OF A PULSED DIPOLE IN AN INTERFACE, DEC 1962.  
BY GARDNER C S  
KELLER J R  
DDC NUMBER 408470  
INSTRUMENT AF 19<604>05238  
PROJ/TASK 5635 02

AFCL 62 0963  
SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
RADIATION FROM AN AXIALLY SLOTTED CYLINDER COATED WITH  
AN INHOMOGENEOUS DIELECTRIC SHEATH, DEC 1962.  
BY YEH C W H  
KAPRIELIAN Z A  
DDC NUMBER 297508  
INSTRUMENT AF 19<604>06195  
PROJ/TASK 4642 02

AFCL 62 0964  
INTERNATIONAL BUSINESS MACHINES CORP YORKTOWN HEIGHTS N Y  
A PROBLEM ORIENTED SYMBOLIC PROCESSOR, 20 DEC 1962.  
BY MULLERY A P  
SCHALFER R F  
RICE R  
DDC NUMBER 296962  
INSTRUMENT AF 19<628>01621  
PROJ/TASK 4641 05

AFCL 62 0965  
RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER  
PRINCETON N J  
EVAPORATED THIN FILM DEVICES, 1 JUN THROUGH 30 NOV 1962.  
DDC NUMBER 296929  
INSTRUMENT AF 19<628>01617  
PROJ/TASK 4608 04

AFCL 62 0966  
DENMARK TECHNICAL U COPENHAGEN  
RECEPTION OF SKYWAVE SIGNALS NEAR A COASTLINE, SEP 1962.  
BY ANDERSEN I R  
INSTRUMENT AF 61<052>00503  
PROJ/TASK 5635 02

AFCL 62 0967  
NORWEGIAN DEFENSE RESEARCH ESTABLISHMENT KJELLER NORWAY  
ON THE NETWORK DESCRIPTION OF ELECTROMAGNETIC FIELD  
PROBLEMS, 12 OCT 1962.  
BY TONNING A  
DDC NUMBER 411503  
INSTRUMENT AF 61<052>00484  
PROJ/TASK 5635 01

AFCL 62 0968  
CHALMERS INST OF TECH GOTHENBURG SWEDEN  
DYNAMIC NONLINEAR WAVE PROPAGATION IN IONIZED MEDIA.  
VI. REFLECTION OF ELECTROMAGNETIC WAVES FROM AN IONIZED  
STREAM IN THE PRESENCE OF A HIGH POWER PRIMARY WAVE, 1962.  
BY WILHELMSSON K H B  
DDC NUMBER 298299  
INSTRUMENT AF 61<052>00451  
PROJ/TASK 5561 01

AFCL 62 0969  
CHALMERS INST OF TECH GOTHENBURG SWEDEN  
DYNAMIC NONLINEAR WAVE PROPAGATION IN IONIZED MEDIA.  
VII. SCATTERING OF ELECTROMAGNETIC WAVES BY AN ANISOTROPIC  
MEDIUM WITH A HARMONICALLY TIME-VARYING DIELECTRIC TENSOR,  
1962.  
BY WILHELMSSON K H B  
DDC NUMBER 298565  
INSTRUMENT AF 61<052>00451  
PROJ/TASK 5561 01

AFCL 62 0970  
SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
THE KINETIC THEORY OF WAVES IN A WARM PLASMA EXCITED BY  
CURRENT SOURCE, DEC 1962.  
BY RUEHL M H  
INSTRUMENT AF 19<604>06195  
PROJ/TASK 4642 02

AFCL 62 0971  
TYCO LABS INC WALTHAM MASS  
THE TRAVELLING SOLVENT METHOD OF CRYSTAL GROWTH, 15 DEC  
1962.  
BY GRIFFITHS L R  
WRIGHT M A  
MLAVSKY A I  
INSTRUMENT AF 19<604>08803  
PROJ/TASK 4608 04

AFCL 62 0972  
CASE INST OF TECH CLEVELAND OHIO  
VARIATIONS ON THE FIALKOV-GERST SYNTHESIS TECHNIQUE, DEC  
1962.  
BY KODALI V P  
INSTRUMENT AF 19<628>01699  
PROJ/TASK 5635 02

AFCL 62 0973  
PARKE MATHEMATICAL LABS INC CARLISLE MASS  
ELECTRON STRAGGLING THEORY AND CALCULATION, AUG 1962.  
BY PARKE N G III  
DDC NUMBER 296934  
INSTRUMENT AF 19<604>07316  
PROJ/TASK 4608 02

AFCL 62 0974  
NEW YORK U NEW YORK  
A REPRESENTATION FOR CERTAIN LOSSLESS 2N-PORTS, 1 NOV 1962  
BY STOCK D J R  
KAPLAN I I  
DDC NUMBER 298043  
INSTRUMENT AF 19<604>07486  
PROJ/TASK 5635 01

AFCL 62 0975  
HUGHES AIRCRAFT CO CULVER CITY CALIF  
SPATIAL FREQUENCY CHARACTERISTICS OF FINITE APERTURE  
ANTENNAS, JUL 1962.  
BY KLEINER A  
DDC NUMBER 298301  
INSTRUMENT AF 19<628>00333  
PROJ/TASK 4600 06

AFCL 62 0976  
HUGHES AIRCRAFT CO CULVER CITY CALIF  
RADIATION THROUGH CYLINDRICAL PLASMA SHEATHS, AUG 1962.  
BY HARRIS J H  
DDC NUMBER 297788  
INSTRUMENT AF 19<604>08386  
PROJ/TASK 4600 01

AFRL 62 1000  
PENNSYLVANIA STATE U UNIVERSITY PARK  
METHODS FOR REDUCING THE BANDWIDTH REQUIRED FOR AN  
IONOSPHERIC PROBE EXPERIMENT, 1 SEP 1962.  
BY HACKMAN W H  
INSTRUMENT AF 19C604>08012  
PROJ/TASK 8605 01

AFRL 62 1006  
PENNSYLVANIA STATE U UNIVERSITY PARK  
IONOSPHERIC CURRENT PATTERNS IN HIGH LATITUDES, 15 OCT  
1962.  
BY FAIRFIELD D H  
INSTRUMENT AF 19C604>04563  
PROJ/TASK 8605 01

AFRL 62 1007  
PENNSYLVANIA STATE U UNIVERSITY PARK  
EXPERIMENTAL DETERMINATION OF THE CROSS SECTIONS FOR  
DISSOCIATIVE ATTACHMENT OF ELECTRONS IN MOLECULAR IODINE  
AND PHOTO-DETACHMENT OF ELECTRONS FROM NEGATIVE IONS OF  
ATOMIC IODINE, 1 NOV 1962.  
BY KFFRF W M  
INSTRUMENT AF 19C604>04563

AFRL 62 1008  
OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
AN INTERFEROMETRIC MODULATION ORDER-SEPARATOR FOR A FAR  
INFRARED SPECTROGRAPH, SEP 1962.  
BY VANCE M F  
DDC NUMBER 29706P  
INSTRUMENT AF 19C604>04114  
PROJ/TASK 860186033

AFRL 62 1012  
CALIFORNIA U HIRKLEY  
PRESSURE AS A FUNCTION OF DISTANCE, II.  
BY DAVID E N  
GUPTA M K  
DDC NUMBER 28887Z  
INSTRUMENT AF 19C 36>08051  
PROJ/TASK 862486.42

AFRL 62 1013  
PENNSYLVANIA STATE U UNIVERSITY PARK  
A COMPARISON OF DATA ACCURACY IN THE TROPOSPHERE AND IN  
THE STRATOSPHERE, SEP 1962.  
BY HOVERMALE J B  
DDC NUMBER 289876  
INSTRUMENT AF 19C604>07261  
PROJ/TASK 864186414

AFRL 62 1017  
GEORGETOWN U WASHINGTON D C  
RESEARCH DIRECTED TOWARD GEODETIC MEASUREMENTS BY  
OBSERVATIONS OF SOLAR ECLIPSES, NOV 1961.  
BY HEYDEN F J  
BALDINI A  
MATTINGLY D  
DDC NUMBER 291670  
INSTRUMENT AF 19C604>02229  
PROJ/TASK 760076007

AFRL 62 1018  
HARRINGER RESEARCH LTD WINDSOR ONTARIO CANADA  
DIAPHRAGM EXPERIMENTAL MEASUREMENTS, 31 AUG 1962.  
BY HARRINGER A R  
CRONE J D  
HRAY D  
DDC NUMBER 288503  
INSTRUMENT AF 19C628>00443  
PROJ/TASK 762876294

AFRL 62 1019  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
APPLICATION OF RADAR DATA TO FORECASTING OF TECHNICAL  
WEATHER CONDITIONS, SEP 1962.  
BY AUSTIN P W  
DDC NUMBER 293421  
INSTRUMENT AF 19C604>04220  
PROJ/TASK 866186414

AFRL 62 1020  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
THE LINEAR PREDICTABILITY OF PRECIPITATION, SEP 1962.  
BY NOFL T M  
INSTRUMENT AF 19C604>05220  
PROJ/TASK 864186414

AFRL 62 1021  
MICHIGAN U ANN ARBOR  
STUDY OF THE ROCKET-SOUNDING METHODS OF MEASURING THE  
UPPER ATMOSPHERE (SOME GAS KINETIC PROBLEMS PERTAINING  
TO THE UPPER ATMOSPHERIC MEASUREMENTS), AUG 1962.  
BY LIU V C  
DDC NUMBER 29554Z  
INSTRUMENT AF 19C604>05477  
PROJ/TASK 669066904

AFRL 62 1022  
NEW YORK U NEW YORK  
THE WIND SPECTRA OF THE TROPOSPHERE AND LOWER STRATOSPHERE  
OVER NORTH AMERICA, SEP 1962.  
BY WAN-CHENG CHIU  
CRITCHER H L  
DDC NUMBER 291793  
INSTRUMENT AF 19C604>06146  
PROJ/TASK 864586453

AFRL 62 1023  
NEW YORK U NEW YORK  
SOME SELECTED STUDIES ON THE WIND AND TEMPERATURE FIELDS  
OF THE TROPOSPHERE AND LOWER STRATOSPHERE, AUG 1962.  
BY WAN-CHENG CHIU  
INSTRUMENT AF 19C604>06146  
PROJ/TASK 864586453

AFRL 62 1030  
HARVARD U CAMBRIDGE MASS  
A LONG-TERM NORTH-SOUTH ASYMMETRY IN THE LOCATION OF SOLAR  
SOURCES OF GREAT GEOMAGNETIC STORMS, ON THE UNEQUAL  
SPOTTENESS OF THE TWO SOLAR HEMISPHERES, ON SHORT-PERIOD  
RELATIONS BETWEEN NORTH-SOUTH ASYMMETRY IN SPOTTENESS AND  
IN GREAT-STORM SOURCES, NOV 1962.  
BY RELL R  
WOLBACH J G  
DDC NUMBER 294883  
INSTRUMENT AF 19C604>0496Z  
PROJ/TASK 764976490

AFRL 62 1036  
SASKATCHEWAN U SASKATOON CANADA  
STUDIES OF AURORAL HYDROGEN EMISSIONS IN WEST-CENTRAL  
CANADA. I. TIME AND GEOGRAPHICAL VARIATIONS.  
BY MONTBRIANT L F  
JONES A V  
DDC NUMBER 403476  
INSTRUMENT AF 19C604>07261  
PROJ/TASK 766176612

AFRL 62 1037  
SASKATCHEWAN U SASKATOON CANADA  
METALLIC EMISSIONS IN THE TWILIGHT AND THEIR BEARING ON  
ATMOSPHERIC DYNAMICS.  
BY JONES A V  
DDC NUMBER 412548  
INSTRUMENT AF 19C604>07261  
PROJ/TASK 766176612

AFRL 62 1038  
SASKATCHEWAN U SASKATOON CANADA  
OBSERVATION OF THE K(O) BAND OF THE SYSTEM OF O<sub>2</sub> IN THE  
DAY AND TWILIGHT AIRGLOW.  
BY NIXON J F  
JONES A V  
DDC NUMBER 404974  
INSTRUMENT AF 19C604>07261  
PROJ/TASK 766176612

AFRL 62 1039  
HARVARD U CAMBRIDGE MASS  
MEASURED VARIATION OF THE ELECTRONIC TRANSITION MOMENT OF  
THE VEGARD-KAPLAN BANDS IN N<sub>2</sub>.  
BY CARLETON N P  
PAPALIOULOS C  
INSTRUMENT AF 19C628>00310  
PROJ/TASK 766176614

AFRL 62 1040  
HARVARD U CAMBRIDGE MASS  
LIFETIME OF THE LOWEST EXCITED LEVEL OF N<sub>2</sub>.  
BY CARLETON N P  
OLDENBERG D  
INSTRUMENT AF 19C628>00310  
PROJ/TASK 766176614

AFRL 62 1041  
OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
MOLECULAR ORBITALS FOR N<sub>2</sub> BASED ON CENTRAL POTENTIALS  
AVERAGE HAMILTONIAN AND CORRELATION THEORY, SEP 1962.  
BY PEEK J M  
LASKETRE F N  
DDC NUMBER 29074Z  
INSTRUMENT AF 19C604>04541  
PROJ/TASK 763576353

AFRL 62 1043  
COLUMBIA U NEW YORK N Y  
SEISMIC WAVES COUPLED TO SONIC BOOMS.  
GEOPHYSICS 27 4 AUG 1962  
BY OLIVER J  
ISACKS B  
INSTRUMENT AF 19C604>07376  
PROJ/TASK 865286522

AFRL 62 1047  
NEW MEXICO INST OF MINING AND TECH SOCORRO  
CALCULATION OF THERMOPOWER FACTORS FOR A PLASMA AND A  
METAL.  
BY DAVIS J  
LANZA G  
DDC NUMBER 291411  
INSTRUMENT AF 19C604>07358  
PROJ/TASK 669466940

AFRL 62 1048  
NEW YORK U NEW YORK  
THE STATIC APPROXIMATION AND ROUNDS ON SINGLE CHANNEL  
PHASE SHIFTS.  
BY MAMM Y  
OMALLEY T F  
SPRUHC L  
DDC NUMBER 403903  
INSTRUMENT AF 19C604>06553  
PROJ/TASK 763576361

AFRL 62 1051  
RENSSELAER POLYTECHNIC INST TROY N Y  
ELECTROCHEMICAL BEHAVIOR OF A PALLADIUM HYDROGEN DIFFUSION  
ELECTRODE, 25 SEP 1962.  
BY LFERER L  
GREENE M D  
DDC NUMBER 296569  
INSTRUMENT AF 19C604>08377  
PROJ/TASK 669466946

AFRL 62 1052  
DARTMOUTH COLL HANOVER N H  
THERMAL HISTORY AND GROWTH OF THE WARD HUNT ICE SHELF,  
JUL 1962.  
BY LYONS J B  
RAGLE R W  
DDC NUMBER 407531  
INSTRUMENT AF 19C604>09366  
PROJ/TASK 762876282

AFRL 62 1053  
AF CAP AIR FORCE CAMBRIDGE RESEARCH LABS  
OPTICAL PHYSICS LAB L G HANSCOM FIELD MASS  
A RADIOLIOGRAPHY OF THE ELECTRICALLY EXPLODED CONDUCTOR  
PHENOMENON, OCT 1962.  
BY CHAFF W G  
WATSON F W  
DDC NUMBER 299253  
PROJ/TASK 8608

AFRL 62 1054  
KIRUNA GEOPHYSICAL OBSERVATORY SWEDEN  
AURORAL ZONE SATELLITE SCINTILLATION STUDIES, 10 JUL 1962.  
BY LISZKA L  
DDC NUMBER 298574  
INSTRUMENT AF 61C052>00601  
PROJ/TASK 4643

AFRL 62 1056  
HARVARD U CAMBRIDGE MASS  
EFFECTIVE AREA OF SATELLITE-BORNE ANTENNAS FOR RADIO  
ASTRONOMY, AUG 1962.  
BY SANDLER S S  
DDC NUMBER 295600  
INSTRUMENT AF 19C604>06120  
PROJ/TASK 8605 05

AFRL 62 1057  
HARVARD U CAMBRIDGE MASS  
THEORY OF THE Z-PHON PROPAGATION, AUG 1962.  
BY PAPAGIANNIC M D  
DDC NUMBER 295694  
INSTRUMENT AF 19C604>06120  
PROJ/TASK 8605 05

AFRL 62 1058  
HARVARD U CAMBRIDGE MASS  
ANTENNA STUDY FOR Z-MODE SPACE RADIO PROGRAM, AUG 1962.  
RY SANDLER S S  
DDC NUMBER 295601  
INSTRUMENT AF 19C604>06170  
PROJ/TASK 8605 05

AFRL 62 1059  
HARVARD U CAMBRIDGE MASS  
A Z-MODE SPACE RADIO PROGRAM, AUG 1962.  
RY PAPAGIANNIS M D  
MUGUENIN G R  
DDC NUMBER 295579  
INSTRUMENT AF 19C604>06170  
PROJ/TASK 8605 05

AFRL 62 1062  
HARVARD U CAMBRIDGE MASS  
SOLAR PROMINENCE ACTIVITY, 1944-1954, DEC 1962.  
RY WENZEL D H  
JONES F S  
DDC NUMBER 407858  
INSTRUMENT AF 19C604>C4962  
PROJ/TASK 764976490

AFRL 62 1064  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
A SONIC ANEMOMETER FOR THE STUDY OF TURBULENT WIND LOADING  
ON MISSILES, OCT 1962.  
RY KATHAL J C  
DDC NUMBER 294546  
PROJ/TASK 7655

AFRL 62 1066  
HARVARD U CAMBRIDGE MASS  
ON THE ASSOCIATION BETWEEN DISE STORMS AND SOLAR FLARES,  
TYPE V BURSTS AND THEIR ASSOCIATION WITH FLARES, AND  
ADDENDA TO THE FLARE ASSOCIATION OF TYPE I BURSTS, DEC  
1962.  
RY SMITH F V P  
MCINTOSH P S  
DDC NUMBER 405498  
INSTRUMENT AF 19C604>04941  
PROJ/TASK 764976490

AFRL 62 1067  
DARTMOUTH COLL HANOVER N H  
SOME PHYSICAL AND CHEMICAL MEASUREMENTS ON ICE, WITH  
REFERENCE TO THE HARD MOUNT CORES, 1 OCT 1962.  
RY LYONS J B  
PERSSON L F  
DDC NUMBER 292089  
INSTRUMENT AF 19C604>08766  
PROJ/TASK 762876287

AFRL 62 1070  
OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
PREFAT ADVANCES IN THE USE OF THE ELECTRON SPECTROMETER,  
SEP 1962.  
RY LASSETTER F M  
GLASER F M  
MEYER W D  
SKERRELF A  
DDC NUMBER 289826  
INSTRUMENT AF 19C604>04541  
PROJ/TASK 763576357

AFRL 62 1071  
ILLINOIS U URBANA  
A STUDY OF PROFILES IN THE IONOSPHERE BY MEANS OF CYRO-  
INTERACTION EXPERIMENTS CARRIED OUT WITH ROCKETS, AUG 1962.  
RY HODGES R R  
DALMAIN K G  
DESCHAMPS G A  
VERDEVEN J T  
DDC NUMBER 295851  
INSTRUMENT AF 19C604>05565  
PROJ/TASK 8653 05

AFRL 62 1072  
AVCO CORP WILMINGTON MASS  
FORWARD SCATTER RESULTS <FIREFLY>, 22 OCT 1962.  
RY WERMAN J R  
NOFL Y M  
DDC NUMBER 333612  
INSTRUMENT AF 19C628>00275

AFRL 62 1073  
CALIFORNIA U LOS ANGELES  
FURTHER STUDIES OF NUMERICAL ERRORS IN THE INTEGRATION OF  
BAROTROPIC FLOW ON A SPHERICAL GRID, 31 DEC 1962.  
RY GATES W L  
RIEGL C A  
DDC NUMBER 296167  
INSTRUMENT AF 19C604>06149  
PROJ/TASK 8624 03

AFRL 62 1074  
STANFORD U CALIF  
SYNCHROTRON EMISSION FROM HIGH ENERGY ELECTRONICS, OCT  
1962.  
RY MOWER G L  
DDC NUMBER 299436  
INSTRUMENT AF 19C604>07994  
PROJ/TASK 766176615

AFRL 62 1075  
CHICAGO U ILL  
THE STUDY OF HYDROMAGNETIC PROBLEMS BEARING ON  
GEOMAGNETISM.  
DDC NUMBER 417336  
INSTRUMENT AF 19C604>02046  
PROJ/TASK 8600 04

AFRL 62 1076  
BROWN U PROVIDENCE R I  
RESEARCH DIRECTED TOWARD THE STUDY OF HYDRODYNAMIC  
STABILITIES.  
INSTRUMENT AF 19C604>07236  
PROJ/TASK 8600 04

AFRL 62 1077  
LONDON U COLL ENGLAND  
RESEARCH ON EFFECTS OF ELECTRON COLLISIONS IN ATMOSPHERIC  
GASES, 14 FEB 1962.  
RY LUNT R W  
DDC NUMBER 298701  
INSTRUMENT AF 61C02>00110  
PROJ/TASK 4617

AFRL 62 1078  
CALIFORNIA U LOS ANGELES  
THE EFFECT OF FINITE DIFFERENCES ON THE GROWTH RATES OF  
UNSTABLE WAVES IN A SIMPLE BAROCLINIC MODEL, 1 OCT 1962.  
RY RIEGL C A  
DDC NUMBER 296168  
INSTRUMENT AF 19C604>06149  
PROJ/TASK 8624 03

AFRL 62 1080  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
BASIC RESEARCH ON ICE AND SNOW, 14 NOV 1962.  
RY KINGERY W D  
ADAMS C M JR  
DDC NUMBER 271686  
INSTRUMENT AF 19C604>05994  
PROJ/TASK 862186231

AFRL 62 1082  
WASHINGTON U SEATTLE  
PART A, ON VALLEY AND MOUNTAIN WINDS - III, PART B, VALLEY  
WIND THEORY, JUL 1962.  
RY THYER N  
RUEFFNER K J K  
DDC NUMBER 292639  
INSTRUMENT AF 19C604>07201  
PROJ/TASK 765576551

AFRL 62 1083  
COLUMBIA U NEW YORK N Y  
PERIOD EQUATION FOR RAYLEIGH WAVES IN A LAYER OVERLYING A  
HALF SPACE WITH A SINUSOIDAL INTERFACE, OCT 1962.  
RY KUD J Y  
NAFF J F  
DDC NUMBER 407540  
INSTRUMENT AF 19C604>07376  
PROJ/TASK 862862862

AFRL 62 1084  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
OPTICAL PHYSICS EAR L G HANSCOM FIELD MASS  
STUDY OF RADIANT EXPOSURE FROM HIGH ALTITUDE NUCLEAR  
WEAPON DETONATIONS (U), NOV 1962, SECRET-RESTRICTED DATA.  
RY STAIR A T JR  
CARPENTER J W  
RAFFER D J  
MANLEY D P  
PROJ/TASK 7674

AFRL 62 1086  
GEOPHYSICS CORP OF AMERICA BEDFORD MASS  
INFTIC METHODS AND THE FREE EXPANSION PROBLEM, 15 NOV  
1962.  
RY FLORENCE F I  
DDC NUMBER 291772  
INSTRUMENT AF 19C628>00231  
PROJ/TASK 5442

AFRL 62 1087  
TEXAS U AUSTIN  
A DIGITAL METEOROLOGICAL DATA-ACQUISITION SYSTEM, 10 SEP  
1962.  
RY MITCHAM W S  
DDC NUMBER 292167  
INSTRUMENT AF 19C604>04556  
PROJ/TASK 765576551

AFRL 62 1088  
COLUMBIA U NEW YORK N Y  
GEOMAGNETIC OBSERVATIONS ON DRIFT STATION BRAVO, ARCTIC  
OCEAN, NOV 1962.  
RY WALKER J C G  
DDC NUMBER 294631  
INSTRUMENT AF 19C604>07442  
PROJ/TASK 8621 04

AFRL 62 1089  
NEW YORK U NEW YORK  
A MODEL FOR THE STATISTICAL ATOM WITH NON-VANISHING  
ANGULAR MOMENTUM.  
RY SCHWARTZ J L  
BORNWITZ S  
DDC NUMBER 295053  
INSTRUMENT AF 19C604>04555  
PROJ/TASK 764576451

AFRL 62 1090  
TENNESSEE U KNOXVILLE  
INFRARED SPECTRUM OF HYDROGEN FLUORIDE - SHAPES, POSITIONS  
AND INTENSITIES OF HIGH J LINES IN THE FUNDAMENTAL BAND,  
RY FLORETH L F  
DDC NUMBER 403541  
INSTRUMENT AF 19C604>07081  
PROJ/TASK 7670 02

AFRL 62 1091  
MICHIGAN U ANN ARBOR  
A STUDY OF RAINDROP-SIZE DISTRIBUTION AND THEIR VARIATION  
WITH HEIGHT.  
RY HARRY E R  
DDC NUMBER 297368  
INSTRUMENT AF 19C628>00281  
PROJ/TASK 862086208

AFRL 62 1094  
TEXAS A AND M RESEARCH FOUNDATION COLLEGE STATION  
VERTICAL MOTION CALCULATIONS AND SATELLITE CLOUD  
OBSERVATIONS OVER THE WESTERN AND CENTRAL UNITED STATES,  
8 NOV 1962.  
RY HANSEN J  
DDC NUMBER 294970  
INSTRUMENT AF 19C604>08640  
PROJ/TASK 669866982

AFRL 62 1098  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
COLLECTION OF COMPUTER PROGRAMS APPLICABLE TO  
METEOROLOGICAL DATA PROCESSING, NOV 1962.  
RY MOUNT W D  
BERTONI F A  
LUND I A  
DDC NUMBER 294738  
PROJ/TASK 8624

AFRL 62 1105  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
PROPORTIONAL COUNTER SPECTROMETER FOR SOLAR X-RAYS BETWEEN  
1 AND 10 ANGSTROMS, DEC 1962.  
RY HEROUX L  
MANSON J F  
SMITH R  
DDC NUMBER 298352  
PROJ/TASK 6688

AFRL 62 1107  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
ON A THEORY OF TURBULENT DIFFUSION, DEC 1962.  
RY CHARAM J  
DDC NUMBER 292111  
PROJ/TASK 8604

AFCR 62 1108  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
COMPATIBILITY EVALUATION OF DATA HANDLING SUBSYSTEM, DEC 1962.  
RY HOWE H R DDC NUMBER 401104  
HFRSHFRG P I PROJ/TASK 433L  
WPPNFR W G  
GRIFFIN J R

AFCR 62 1109  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
TRANSFORMATION OF THE EQUATIONS OF MOTION OF METEOROLOGY  
INTO ARBITRARY ORTHOGONAL COORDINATES, DEC 1962.  
RY LUIS F M DDC NUMBER 422410  
PROJ/TASK 8428

AFCR 62 1110  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
WIND MEASURING SET AN/GMO-20 <V> SYSTEM EVALUATION, DEC 1962.  
RY PIERCE R M JR DDC NUMBER 298731  
PROJ/TASK 8639

AFCR 62 1111  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
SOLAR FLUX MEASUREMENTS, APR 1962. ANTENNA CONSIDERATIONS,  
DEC 1962.  
RY CASTELLI J P DDC NUMBER 298666  
PROJ/TASK 4643

AFCR 62 1112  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
OPTICAL PHYSICS LAB L G HANSCOM FIELD MASS  
RESULTS FROM THE CONSERVATION LAWS FOR MAGNETOHYDRODYNAMIC  
FLOW, DEC 1962.  
RY HANO G I DDC NUMBER 298729  
PROJ/TASK 8608

AFCR 62 1113  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
A USAF AIR BASE GRAVITY NETWORK, DEC 1962.  
RY THOMPSON L G D DDC NUMBER 298628  
HAWKINS C S  
PERRY R M PROJ/TASK 7600

AFCR 62 1114  
NEW YORK U NEW YORK  
PROBABILISTIC DYNAMICS, 30 JUN 1962.  
RY WOODRURY M A DDC NUMBER 299988  
INSTRUMENT AF 19<604>04981  
PROJ/TASK 86286281

AFCR 62 1116  
ARIZONA U TUCSON  
ELECTRICAL AND MAGNETIC PROPERTIES OF ORGANIC SOLIDS, 15  
NOV 1962.  
RY TOLLIN C DDC NUMBER 296273  
INSTRUMENT AF 19<604>08475  
PROJ/TASK 476947691

AFCR 62 1117  
HARVARD U CAMBRIDGE MASS  
SPECTRAL OBSERVATIONS OF SOLAR RADIO BURSTS, III,  
CONTINUUM BURSTS, DEC 1962.  
RY THOMPSON A R DDC NUMBER 405335  
WATFELL A INSTRUMENT AF 19<604>08380  
PROJ/TASK 764976492

AFCR 62 1120  
TEXAS INSTRUMENTS INC DALLAS  
RADAR ANALYSIS OF THE MOON, PHASE I - FEASIBILITY OF  
LABORATORY SIMULATION, 30 NOV 1962.  
RY KINSMAN F F DDC NUMBER 295704  
VAN LOPIC J R INSTRUMENT AF 19<628>00480  
PROJ/TASK 7698 03

AFCR 62 1121  
ALBERTA U EDMONTON CANADA  
SEISMOLOGICAL MEASUREMENTS IN SOUTHERN ALBERTA, 1962.  
RY CUMMING G L DDC NUMBER 275729  
GARLAND G D INSTRUMENT AF 19<604>08470  
VIZOFF K PROJ/TASK 865286521

AFCR 62 1122  
STANFORD U CALIF  
DEFLECTION OF RELATIVISTIC PARTICLE STREAMS USING HIGH  
FREQUENCY RADIO WAVES, 26 NOV 1962.  
RY LUKIGAN R R DDC NUMBER 406879  
INSTRUMENT AF 19<604>07994  
PROJ/TASK 766176615

AFCR 62 1123  
OKLAHOMA STATE U RESEARCH FOUNDATION STILLWATER  
ROCKET RESEARCH, 28 DEC 1962.  
RY ZINN J B DDC NUMBER 297841  
INSTRUMENT AF 19<604>06648  
PROJ/TASK 765976597

AFCR 62 1124  
NEW YORK U NEW YORK  
OBLIQUE SHOCK WAVES IN STEADY TWO-DIMENSIONAL  
HYDROMAGNETIC FLOW, NOV 1962.  
RY BAKFR J DDC NUMBER 298669  
ERICSON W R INSTRUMENT AF 19<604>06144  
PROJ/TASK 860086004

AFCR 62 1125  
NEW YORK U NEW YORK  
ANALYSIS OF THE TRANSITION REGION BETWEEN A UNIFORM PLASMA  
AND ITS CONFINING MAGNETIC FIELD, II, AUG 1962.  
RY MURPHY J DDC NUMBER 298643  
INSTRUMENT AF 19<604>06144  
PROJ/TASK 860086004

AFCR 62 1126  
AVCO CORP WILMINGTON MASS  
SCATTERING AND EXTINCTION COEFFICIENTS FOR SMALL ABSORBING  
AND NONABSORBING AEROSOLS, NOV 1962.  
RY PENNDORF R INSTRUMENT AF 19<604>09743  
PROJ/TASK 767076704

AFCR 62 1127  
LONDON U IMPERIAL COLL OF SCIENCE AND TECH ENGLAND  
A CASE STUDY OF THUNDERSTORMS ON AN OCCASION OF SMALL WIND  
SMPAR, <FP 1962>.  
RY LUNLAN F H DDC NUMBER 293815  
INSTRUMENT AF 61<052>00254  
PROJ/TASK 862086204

AFCR 62 1128  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
ATMOSPHERIC MOMENTUM AND ENRGY CALCULATIONS FOR THE  
SOUTHERN HEMISPHERE DURING THE IGY, 1 JAN 1963.  
RY OMASI G O DDC NUMBER 297501  
INSTRUMENT AF 19<604>06108  
PROJ/TASK 862086280

AFCR 62 1129  
ALLIED RESEARCH ASSOC INC CONCORD MASS  
OPERATIONAL ASPECTS OF DRY ICE PELLET DISPENSING MACHINE  
IN CLOUD SEEDING EXPERIMENTS, 30 JUN 1962.  
RY SOUZA A F DDC NUMBER 298556  
INSTRUMENT AF 19<604>08802  
PROJ/TASK 669766971

AFCR 62 1130  
COLUMBIA U NEW YORK N Y  
TRANSIENT ANALYSIS OF SEISMIC CORE PHASES.  
RY LANDISMAN M INSTRUMENT AF 19<604>07376  
MUELLER S PROJ/TASK 865286522  
ROLT A  
EWING M

AFCR 62 1131  
AVCO CORP WILMINGTON MASS  
ATLAS SCATTERING DIAGRAMS FOR N=1.5, NOV 1962.  
RY PENNDORF R DDC NUMBER 407809  
INSTRUMENT AF 19<604>09743  
PROJ/TASK 767076704

AFCR 62 1132  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
COMPUTER SOLUTION OF SIMULTANEOUS DIFFUSION CHEMICAL  
KINETICS EQUATIONS RELATING TO UPPER ATMOSPHERE RELEASES,  
DEC 1962.  
RY GOLDNER D DDC NUMBER 298730  
MASON J PROJ/TASK 7635

AFCR 62 1133  
LONDON U IMPERIAL COLL OF SCIENCE AND TECH ENGLAND  
ABSORPTION OF WATER VAPOUR ON IONIC CRYSTALS, DIELECTRIC  
PROPERTIES, 30 SEP 1962.  
RY DDC NUMBER 298667  
INSTRUMENT AF 61<052>00190  
PROJ/TASK 862086207

AFCR 62 1134  
CHICAGO U ILL  
ON THE PLACEMENT OF THE TROPOPAUSE IN THE ANTARCTIC, DEC  
1962.  
RY OVERYER R DDC NUMBER 294794  
INSTRUMENT AF 19<604>07230  
PROJ/TASK 864186410

AFCR 62 1135  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
JOINT INDO-UNITED STATES BALLOON FLIGHT PROGRAM 1961, DEC  
1962.  
RY CHAGNON F W DDC NUMBER 411564  
PROJ/TASK 7690

AFCR 62 1136  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
UPPER-ATMOSPHERE DENSITY OBTAINED FROM FALLING SPHERE  
DRAG MEASUREMENTS, DEC 1962.  
RY FAUCHER G A DDC NUMBER 405736  
PROCONIER R W PROJ/TASK 6690  
SHERMAN F S

AFCR 62 1137  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
REPRESENTATION SCHEMES FOR INVESTIGATING NONLINEAR  
PROCESSES, DEC 1962.  
RY DE VORBIN D R DDC NUMBER 296163  
INSTRUMENT AF 19<604>04969  
PROJ/TASK 862086281

AFCR 62 1138  
QUEENS U BELFAST NORTHERN IRELAND  
RESEARCH ON PHYSICS OF THE UPPER ATMOSPHERE, 30 JUN 1962.  
RY RATES D R DDC NUMBER 293867  
DALGARNO A INSTRUMENT AF-ENAR-0016-61  
JARRIFT A M PROJ/TASK 763576361  
MOISEWITSCH R L  
STUART A I

AFCR 62 1139  
DENMARK TECHNICAL U COPENHAGEN  
CORRELATION BETWEEN EARTH CURRENTS AT GODHAVEN, GREENLAND  
AND MAGNETIC DISTURBANCES, JUN 1962.  
RY UNGETHUIP F DDC NUMBER 293811  
PETTERSEN P W INSTRUMENT AF 61<052>00298  
PROJ/TASK 766176615

AFRL 62 1160  
DENMARK TECHNICAL U COPENHAGEN  
OBSERVATIONS OF VLF RADIO NOISE AT GODHAVEN, GREENLAND,  
SEP 1962.  
RY UNGSTRUP F DDC NUMBER 293834  
INSTRUMENT AF 61605200298  
PROJ/TASK 766376615

AFRL 62 1161  
GEOPHYSICS CORP OF AMERICA BEDFORD MASS  
REVIEW OF REQUIREMENTS IN NUCLEAR WEAPON INDUCED  
CHEMILUMINESCENT REACTIONS (U), OCT 1962, SECRET.  
RY PRESSMAN J DDC NUMBER 336800  
INSTRUMENT AF 19660400848  
PROJ/TASK 767676759

AFRL 62 1162  
GEOPHYSICS CORP OF AMERICA BEDFORD MASS  
RESEARCH DIRECTED TOWARD STUDIES ON CHEMICAL RELEASE  
APPLICATIONS, DEC 1962.  
RY PRESSMAN J DDC NUMBER 336800  
INSTRUMENT AF 19662000231  
PROJ/TASK 5842

AFRL 62 1163  
BOSTON COLL CHESTNUT HILL MASS  
RESEARCH DIRECTED TOWARD THE COLLECTION, REDUCTION AND  
EVALUATION OF GEOMAGNETIC FIELD DATA AND ELECTRIC FIELD  
PHENOMENA ATMOSPHERIC AND TERRESTRIAL, 30 SEP 1961.  
RY LINPHAN D DDC NUMBER 299287  
INSTRUMENT AF 196604005569  
PROJ/TASK 760176019

AFRL 62 1164  
GENERAL DYNAMICS CORP AERONAUTICS SAN DIEGO CALIF  
COMPILATION OF ATLAS, TITEL I, TITEL II, AND MINUTEMAN  
ROCKET ENGINE PARAMETERS (U), 17 DEC 1962, CONFIDENTIAL.  
RY HARSCHARGER F C DDC NUMBER 305556  
INSTRUMENT AF 196604005556  
PROJ/TASK 5784

AFRL 62 1165  
GENERAL DYNAMICS CORP AERONAUTICS SAN DIEGO CALIF  
COMP SPECTRAL RADIANCE MEASUREMENTS OF A STATICALLY FIRED  
TITEL II, SECOND STAGE ROCKET ENGINE (U), 17 DEC 1962,  
SECRET.  
RY HART, F F R DDC NUMBER 305556  
HARSCHARGER F C INSTRUMENT AF 196604005556  
HEFMAN R PROJ/TASK 4784

AFRL 62 1166  
MICHIGAN U ANN ARBOR  
ARMAC PROCEEDINGS RE-IR/OPTICAL PROGRAM DEVELOPMENT, VOL  
IV, PART I (U), 8-10 MAY 1961, SECRET.  
RY FROST A D DDC NUMBER 40049910  
INSTRUMENT AF 196604007350  
PROJ/TASK 40049910

AFRL 62 1167  
MICHIGAN U ANN ARBOR  
ARMAC PROCEEDINGS RE-IR/OPTICAL PROGRAM DEVELOPMENT, VOL  
IV, PART II (U), SECRET-RESTRICTED DATA.  
RY FROST A D DDC NUMBER 40049910  
INSTRUMENT AF 196604007350  
PROJ/TASK 40049910

AFRL 62 1168  
ROFING CO SEATTLE WASH  
ROFING PARTICIPATION IN INTERSERVICE RADIATION MEASUREMENT  
PROGRAM (IRMP), MEASUREMENT PERIOD ONE THROUGH FOUR (U),  
1 JAN THROUGH 21 APR 1961, SECRET.  
RY CAMPBELL J W DDC NUMBER 307427  
STRIKSEL W I INSTRUMENT AF 196604007427  
HINDEWSET W

AFRL 63 001  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
LASERS - A BASIC DISCUSSION OF TYPES, PROPERTIES AND  
PRINCIPLES, JAN 1963.  
RY STICKLEY C M DDC NUMBER 40188A  
PROJ/TASK 4645 02

AFRL 63 002  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
THE MATERIAL LIMITATIONS OF TUNNEL DIODE COMMUNICATIONS  
CIRCUIT PERFORMANCE, JAN 1963.  
RY SHEPPHERD F D JR DDC NUMBER 298645  
YANG A C INSTRUMENT AF 19660400845  
VICKERS V PROJ/TASK 4644

AFRL 63 003  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
SPECTROGRAPHIC ANALYSIS OF TRACE ELEMENTS IN ALUMINUM  
CHINE MATRICES, JAN 1963.  
RY FITZGERALD J J DDC NUMBER 401887  
PROJ/TASK 5620

AFRL 63 004  
LOCKHEED AIRCRAFT CORP PALO ALTO CALIF  
SATELLITE-TO-SATELLITE PROPAGATION EXPERIMENT FEASIBILITY  
STUDY AND PRELIMINARY DESIGN, 11 DEC 1962.  
RY MEYER J D DDC NUMBER 402255  
INSTRUMENT AF 196618006457  
PROJ/TASK 4603 07

AFRL 63 005  
MINNESOTA U MINNEAPOLIS  
STUDIES OF PRIMARY ELECTRON SOURCES, SEP 1962.  
RY ANDERSON D F DDC NUMBER 297266  
INSTRUMENT AF 196604008381  
PROJ/TASK 461766170

AFRL 63 006  
RADIO CORP OF AMERICA SANNOFF RESEARCH CENTER  
PRINCETON N J  
THRESHOLD LOGIC IN ARTIFICIAL INTELLIGENCE, 15 NOV 1962.  
RY WINDER R D DDC NUMBER 298784  
INSTRUMENT AF 196606008424  
PROJ/TASK 4641 01

AFRL 63 007  
ROXON METALS CORP NEWARK N J  
MATERIALS FOR AND THE MECHANISM OF GETTERING MULTIPLE  
COMPONENT GASES, 8 JUN TO 8 SEP 1962.  
RY FRKYIN I DDC NUMBER 297957  
KAUFMAN I J INSTRUMENT AF 196604008430  
PROJ/TASK 461966190

AFRL 63 008  
BROWN U PROVIDENCE R I  
ON THE SOLUTION OF A TRANSCENDENTAL EQUATION ARISING IN  
THE THEORY OF SCATTERING BY A DIELECTRIC CYLINDER, PART II  
JUN 1962.  
RY STREIFFER W DDC NUMBER 412778  
KODIS R D INSTRUMENT AF 196604004561  
PROJ/TASK 5635 02

AFRL 63 009  
BROWN U PROVIDENCE R I  
A METHOD OF ANALYZING TIME DEPENDENT CYLINDRICAL  
DISCHARGES, DEC 1962.  
RY CARON P R DDC NUMBER 411843  
KODIS R D INSTRUMENT AF 196604004561  
PROJ/TASK 5635 02

AFRL 63 010  
COLUMBIA U NEW YORK N Y  
GUIDED ELECTROMAGNETIC PROPAGATION ALONG A NON-CYROTROPIC  
CIRCULAR PLASMA COLUMN, 30 OCT 1962.  
RY GRANATSTEIN V L DDC NUMBER 402680  
SCHLESINGER S P INSTRUMENT AF 196604008379  
PROJ/TASK 4600

AFRL 63 011  
GENERAL ELECTRIC CO SCHENECTADY N Y  
INVESTIGATION OF VARIOUS ACTIVATOR REFRACTORY SUBSTRATE  
COMBINATIONS, 27 DEC 1962.  
RY AFFLECK J H DDC NUMBER 296172  
ROYD W T INSTRUMENT AF 19662800279  
PROJ/TASK 4619 01

AFRL 63 012  
RADIO CORP OF AMERICA SANNOFF RESEARCH CENTER  
PRINCETON N J  
INVESTIGATIONS OF FUNDAMENTAL LIMITATIONS DETERMINING THE  
ULTIMATE SIZE OF MICROSTRUCTURES - MINIMUM SIZE AND  
MAXIMUM PACKING DENSITY OF NON-FLUORANT SOLID STATE  
DEVICES, 31 DEC 1962.  
RY WALLMARK I T DDC NUMBER 402115  
INSTRUMENT AF 196604008060  
PROJ/TASK 5632

AFRL 63 013  
NEW HAMPSHIRE U DURHAM  
TM COAXIAL DIPOLE PARAMETRIC AMPLIFIER ANTENNA, 1 DEC  
1962.  
RY FROST A D DDC NUMBER 401737  
INSTRUMENT AF 19662800307  
PROJ/TASK 4600 02

AFRL 63 014  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
MEASUREMENT OF IONOSPHERIC PATHS AS A TIME-VARYING NETWORK  
19 DEC 1962.  
RY LERMMEL A F DDC NUMBER 298298  
INSTRUMENT AF 196628003375  
PROJ/TASK 4691 01

AFRL 63 015  
STANFORD RESEARCH INST MENLO PARK CALIF  
THE DIFFUSION OF LEAD IN POTASSIUM CHLORIDE, 29 NOV 1962.  
RY KENNEDY F J JR DDC NUMBER 299725  
FREDERICKS W J INSTRUMENT AF 196604007231  
PROJ/TASK 5620 01

AFRL 63 016  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
POSITIONING OF FERROMAGNETS IN A RESONANT CAVITY TO INDUCE  
MAGNETOSTATIC MODES OF OSCILLATION, JAN 1963.  
RY ZAPP W R DDC NUMBER 401919  
PROJ/TASK 4608 05

AFRL 63 017  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
MICROWAVE PROBING OF ELECTRON DECAY IN A GAS DISCHARGE,  
18 JAN 1963.  
RY GALE M C DDC NUMBER 401857  
INSTRUMENT AF 196604007216  
PROJ/TASK 461766191

AFRL 63 018  
DARBY MATHEMATICAL LABS INC CARLISLE MASS  
STUDY OF THE PROPERTIES OF MATTER USING DIFFERENTIAL  
GEOMETRIC METHODS, JAN 1963.  
RY FITZGERALD J J DDC NUMBER 400111  
INSTRUMENT AF 196604007316  
PROJ/TASK 4608 02

AFRL 63 019  
NEW YORK U NEW YORK  
EXCITATION OF SURFACE WAVES ON A UNIDIRECTIONALLY  
CONDUCTING SCREEN BY A PHASE LINE SOURCE, JAN 1963.  
RY KARDEN N DDC NUMBER 413336  
KARDEN F C INSTRUMENT AF 196604008238  
PROJ/TASK 5635 02

AFRL 63 020  
GENERAL ELECTRIC CO SCHENECTADY N Y  
SEMICONDUCTOR DEVICE CONCEPTS, 10 FEB 1962.  
RY ANDERSON D F DDC NUMBER 296370  
INSTRUMENT AF 196628004329  
PROJ/TASK 4608 04

AFCL 63 020R  
GENERAL ELECTRIC CO SCHENECTADY N Y  
SEMICONDUCTOR DEVICE CONCEPTS, 30 SEP 1962.  
DDC NUMBER 296197  
INSTRUMENT AF 19<628>00329  
PROJ/TASK 4608 04

AFCL 63 021  
MOTOROLA INC PHOENIX ARIZ  
RESEARCH AND DEVELOPMENT FOR SURFACE PROTECTION FOR  
SILICON DEVICES, 15 JUN - 14 SEP 1962.  
BY COOPER H W DDC NUMBER 400279  
BY EVITTS H C INSTRUMENT AF 19<604>08358  
BY FLASCHEN S S PROJ/TASK 5621  
BY RADFR R W

AFCL 63 022  
NEW YORK U NEW YORK  
LITERATURE SURVEY ON THE PREPARATION OF METALS FROM  
ORGANOMETALLIC COMPOUNDS, MAR 1963.  
BY TSUTSUI M  
BY LORENZ D INSTRUMENT AF 19<628>01685  
PROJ/TASK 4608 02

AFCL 63 023  
TEXAS U AUSTIN  
AN APPROXIMATE SOLUTION OF THE RADIO FIELD STRENGTH IN THE  
VICINITY OF A GROVE OF TREES, 15 JAN 1963.  
BY LAGRONF A H DDC NUMBER 299265  
INSTRUMENT AF 19<604>08038  
PROJ/TASK 4603

AFCL 63 024  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
EXTRACTION OF PITCH FROM THE TRACHEA, FEB 1963.  
BY PORTER H C DDC NUMBER 401920  
PROJ/TASK 4610

AFCL 63 025  
CALIFORNIA U BERKELEY  
POSITIVE-COLUMN STRAIGHTIONS IN GASEOUS CONDUCTORS, 19 JUN  
1962.  
BY DOBRATZ B F DDC NUMBER 403436  
INSTRUMENT AF 19<628>00324  
PROJ/TASK 5634 02

AFCL 63 027  
PARKE MATHEMATICAL LABS INC CARLISLE MASS  
MATHEMATICAL DESCRIPTIONS OF POLARIZATION AND RELATED  
PHENOMENA, PART II, QUANTUM MECHANICAL DESCRIPTION.  
BY ROWSOME F H III DDC NUMBER 299430  
INSTRUMENT AF 19<604>07316  
PROJ/TASK 4608 02

AFCL 63 028  
NEW YORK U NEW YORK  
COMPUTER CONSTRUCTION AND EVALUATION OF LONG BURST-ERROR  
CORRECTING CODES, 31 JAN 1963.  
BY METZNER J J DDC NUMBER 402676  
INSTRUMENT AF 19<604>06168  
PROJ/TASK 4610 03

AFCL 63 029  
MICHIGAN U ANN ARBOR  
STUDIES IN RADAR CROSS SECTIONS XLVIII-DIFFRACTION AND  
SCATTERING BY REGULAR BODIES, II, THE CONE, JAN 1963.  
BY KLEIMAN R F DDC NUMBER 407557  
BY SENIOR T B A INSTRUMENT AF 19<604>06655  
PROJ/TASK 5635 02

AFCL 63 030  
UPPSALA U SWEDEN  
IONIZATION CONDITIONS IN A LIGHTNING CHANNEL IN RELATION  
TO MULTIPLE STROKES, 1962.  
BY PADET-LEPINE J DDC NUMBER 404954  
INSTRUMENT AF 61<052>00171  
PROJ/TASK 563156311

AFCL 63 031  
CHALMERS INST OF TECH GOTHENBURG SWEDEN  
DYNAMIC NONLINEAR WAVE PROPAGATION IN IONIZED MEDIA, 7.  
NONLINEAR PLASMA WAVES IN A STREAMING HOMOGENEOUS COLD  
IONIZED MEDIUM, 1962.  
BY RYDBECK O E INSTRUMENT AF 61<052>00451  
INSTRUMENT AF 61<052>00594  
PROJ/TASK 5561 01

AFCL 63 032  
NORWEGIAN DEFENSE RESEARCH ESTABLISHMENT KJELLER NORWAY  
A NOTE ON THE PROPERTIES OF INERT NETWORKS, 16 NOV 1962.  
BY TONNING A INSTRUMENT AF 61<052>00484  
PROJ/TASK 5635 01

AFCL 63 033  
DENMARK TECHNICAL U COPENHAGEN  
AN EXTENSION TO THE THEORY OF A DIPOLE OVER AN  
INHOMOGENEOUS GROUND, NOV 1962.  
BY ANDERSEN J B DDC NUMBER 413301  
INSTRUMENT AF 61<052>00503  
PROJ/TASK 5635 02

AFCL 63 034  
GENERAL ELECTRIC CO SANTA BARBARA CALIF  
HARD POINT DEFENSE PRELIMINARY NUCLEAR EFFECTS SUMMARY (U)  
FEB 1963.. SECRET-RESTRICTED DATA.  
BY GARMILL B INSTRUMENT AF 19<628>00207  
BY HENDRICK P  
BY BARRETT T  
BY CHRISTIAN R  
BY ROYLE S  
BY GRIESINGER D  
BY FISCHER P

AFCL 63 035  
DOUCETTE E I ASSOC INC CHATHAM N J  
A QUANTITATIVE STUDY OF THE EVOLUTION OF GASES FROM  
ELECTRON TUBES AND MATERIALS, 31 JAN 1963.  
BY GRUBBS W J DDC NUMBER 403984  
BY SNIDER G M INSTRUMENT AF 19<628>00326  
BY SCOTT F I PROJ/TASK 461946190

AFCL 63 036  
NUCLEAR CORP OF AMERICA PHOENIX ARIZ  
THE PREPARATION OF HIGH PURITY RARE EARTH METALS BY ZONE  
REFINING, 1 JAN 1962 TO 31 JAN 1963.  
DDC NUMBER 405751  
INSTRUMENT AF 19<604>07491  
PROJ/TASK 4608 02

AFCL 63 037  
NEW YORK U NEW YORK  
NON-FUCLIDEAN GEOMETRIC REPRESENTATIONS FOR LOSSY  
MICROWAVE NETWORKS, JAN 1963.  
BY KAPLAN L J  
BY STOCK D J R INSTRUMENT AF 19<604>07486  
PROJ/TASK 5635 01

AFCL 63 038  
NORTHEASTERN U BOSTON MASS  
MATHEMATICAL ANALYSIS OF COMPLEX SYSTEMS, 30 SEP 1962.  
BY DOLANSKY L DDC NUMBER 299009  
BY RACH R F JR INSTRUMENT AF 19<604>04573  
BY GIVEEN S M PROJ/TASK 5632 03

AFCL 63 039  
WOLF RESEARCH AND DEVELOPMENT CORP WEST CONCORD MASS  
MATRIX OPERATIONS PROGRAM FOR THE EXPERIMENTAL DYNAMIC  
PROCESSOR, 22 FEB 1963.  
BY CASO C DDC NUMBER 297936  
BY SELTZER J INSTRUMENT AF 19<628>01614  
BY SEXTON J PROJ/TASK 4648 05

AFCL 63 040  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
GEOLOGICAL AND GEOPHYSICAL CONSIDERATIONS IN RADIO  
PROPAGATION THROUGH THE EARTH-S CRUST, FEB 1963.  
BY AMES L A DDC NUMBER 402704  
BY FRAZIER J W PROJ/TASK 4610 01  
BY ORANGE A S

AFCL 63 041  
CALIFORNIA U BERKELEY  
BEHAVIOR OF THE SPACE CHARGE IN A PLASMA MAGNETRON, 15 JUN  
1962.  
BY IKEDA Y DDC NUMBER 403437  
INSTRUMENT AF 19<628>00324  
PROJ/TASK 5634 02

AFCL 63 043  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
A DECISION PROCEDURE FOR POSITIVE IMPLICATION, FEB 1963.  
NOTRE DAME J FORMAL LOGIC 3 3 1963  
BY RECNK M D PROJ/TASK 5632 05

AFCL 63 044  
OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
PROPAGATIONAL PHASE VARIATION MEASUREMENTS AT VERY LOW  
FREQUENCIES, 31 OCT 1962.  
BY KNOX J L DDC NUMBER 298732  
INSTRUMENT AF 19<604>07270  
PROJ/TASK 4691 02

AFCL 63 045  
STANFORD RESEARCH INST MENLO PARK CALIF  
F-I-O-M-W-I-T-I (TITLE IS CONFIDENTIAL), 15 NOV 1962.  
SECRET.  
BY DOLPHIN L JR INSTRUMENT AF 19<628>00205  
BY MISCHICO C

AFCL 63 046  
SPACF GENERAL CORP EL MONTE CALIF  
EXPERIMENTAL RESEARCH INVESTIGATION OF EXTREMELY LOW  
FREQUENCY PROPAGATION, 15 FEB 1963.  
BY SMITH O D DDC NUMBER 404564  
BY KUHNLE P F INSTRUMENT AF 19<628>01603  
BY GEORGES T M PROJ/TASK 4603 05

AFCL 63 047  
SOUTHFRN CALIFORNIA U LOS ANGELES CALIF  
AN APPLICATION OF SOMMERFELD-S COMPLEX ORDER WAVE  
FUNCTIONS TO THE PROBLEM OF RADIATION FROM A DIELECTRIC  
COATED CONE, FEB 1963.  
BY YEH C W H DDC NUMBER 404168  
INSTRUMENT AF 19<604>06195  
PROJ/TASK 4642 02

AFCL 63 048  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
ON THE POSSIBILITY OF OBTAINING LARGE AMPLITUDE RESONANCE  
IN VERY THIN FERROMAGNETIC DISKS, FEB 1963.  
BY MORGENTHAUER F R DDC NUMBER 410120  
PROJ/TASK 4600 03

AFCL 63 049  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
MICROWAVE PHYSICS LAB L G HANSCOM FIELD MASS  
ANISOTROPIC PLASMA COVERED MAGNETIC LINE SOURCE, FEB 1963.  
BY SHORE R DDC NUMBER 410888  
BY WELTZ G PROJ/TASK 4642 01

AFCL 63 050  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
ON THE IMPLEMENTATION AND USAGE OF A LANGUAGE FOR CONTRACT  
BRIDGE BIDDING, MAR 1963.  
BY BAKTIAN A L DDC NUMBER 407094  
BY FOLEY J P  
BY DETRICK S R PROJ/TASK 563256325

AFRL 63 051  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
MODERN ANTENNAS FOR SPACE COMMUNICATIONS, FEB 1963.  
BY SLETTFEN C J DDC NUMBER 403987  
PROJ/TASK 4600 01

AFRL 63 052  
ILLINOIS INST OF TECH RESEARCH INST CHICAGO  
INVESTIGATION OF TECHNIQUES FOR THE REMOVAL OF ELECTRONS  
IN THE UPPER ATMOSPHERE.  
BY SPARS R D DDC NUMBER 299588  
INSTRUMENT AF 19C62800916

AFRL 63 053  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
RESEARCH IN ELECTROMAGNETICS, PLASMAS AND NETWORKS, 13 FEB  
1963.  
BY PFLSEN L R DDC NUMBER 402313  
INSTRUMENT AF 19C604004143  
PROJ/TASK 5635 01

AFRL 63 054  
AVCO CORP WILMINGTON MASS  
RESEARCH CONCERNING FORECASTING ANOMALOUS PROPAGATION AT  
HIGH LATITUDES, 28 FEB 1963.  
BY CORONITI S C DDC NUMBER 403140  
INSTRUMENT AF 19C604004092  
PROJ/TASK 4603 04  
BY MFRMAN J R  
HILL C F  
PENNDORFF R B  
ROUVEY G F

AFRL 63 059  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
DEPENDENCE OF ORIENTATION AND MAGNON THRESHOLD POWER  
DURING PARALLEL PUMPING, USING A SINGLE CRYSTAL MANGANIN-  
MAGNESIUM-COBALT-FERRITE, FEB 1963.  
PHYS STAT SOL 2 734 1962  
BY HAUFRNPFISSEK W DDC NUMBER 407368  
LITZEN D  
STIGLITZ M R PROJ/TASK 5635 03

AFRL 63 056  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
EVOLUTION OF THE DESIGN OF THE ANNA-1 SATELLITE OPTICAL  
RECON, FEB 1963.  
BY WIRTANEN T P DDC NUMBER 402213  
PROJ/TASK 7600

AFRL 63 057  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
MICROWAVE PHOTON GENERATION BY THIN MAGNETIC FILMS.  
BY SPAVY W H JR DDC NUMBER 409474  
PROJ/TASK 4600 03

AFRL 63 058  
SYSTEMS DEVELOPMENT CORP SANTA MONICA CALIF  
SOME REMARKS ABOUT SEQUENCES IN CONTEXT FREE LANGUAGES,  
31 JAN 1963.  
BY GINSBURG S DDC NUMBER 400371  
MILTAN J S INSTRUMENT AF 19C628000485  
PROJ/TASK 464146410

AFRL 63 059  
MINNESOTA U MINNEAPOLIS  
STUDIES OF PRIMARY ELECTRON SOURCES, JAN 1963.  
BY SHEPHERD W G DDC NUMBER 405909  
ANDERSON D F INSTRUMENT AF 19C604008381  
PROJ/TASK 461946190

AFRL 63 060  
RAYTHEON CO WORMWOOD MASS  
STUDIES IN DEEP STRATA RADIO COMMUNICATIONS, OCT 1962.  
BY DE RITTENHOUT J T DDC NUMBER 407959  
SUTCLIFFE R A INSTRUMENT AF 19C604008959  
PROJ/TASK 4610 01

AFRL 63 061  
WESTINGHOUSE ELECTRIC CORP PITTSBURGH PA  
THEORETICAL AND EXPERIMENTAL RESEARCH TO ASSIST IN  
PREPARATION AND DESIGN OF A HIGH FREQUENCY SILICON CARBIDE  
ACTIVE DEVICE, DEC 1962.  
BY CHANG H C DDC NUMBER 407193  
INSTRUMENT AF 19C604008499  
PROJ/TASK 4608 04

AFRL 63 062  
RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER  
PRINCETON N J  
INVESTIGATION OF CARRIER INJECTION ELECTROLUMINESCENCE,  
15 FEB 1963.  
BY FISCHER A C DDC NUMBER 402077  
FONGER W H INSTRUMENT AF 19C604008018  
MASON A C PROJ/TASK 4608 04

AFRL 63 063  
TRC INC EAST BOSTON MASS  
EFFICIENT FLUSHMOUNTED SURFACE WAVE LAMINER, 28 NOV 1962.  
BY VIGOR H P DDC NUMBER 406692  
INSTRUMENT AF 19C604008057  
PROJ/TASK 4600 02

AFRL 63 064  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
ENVIRONMENT SPENSING - A NEW APPROACH TO THE DESIGN OF AN  
ELECTRONIC AID FOR THE BLIND, MAR 1963.  
BY RISHOP W R DDC NUMBER 406472  
PROJ/TASK 4608 05

AFRL 63 065  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
DISLOCATION STUDIES IN DIAMOND BY X-RAY DIFFRACTION  
MICROSCOPY, MAR 1963.  
BY EULER F DDC NUMBER 408707  
BY SCHMUTTKER G H PROJ/TASK 5621

AFRL 63 066  
SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
RADIATION FROM AN AXIALLY SLOTTED CYLINDER WITH A RADIALLY  
INHOMOGENEOUS PLASMA COATING, MAR 1963.  
BY RIUSCH W V T DDC NUMBER 404167  
INSTRUMENT AF 19C604006194  
PROJ/TASK 4642 02

AFRL 63 067  
RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER  
PRINCETON N J  
EVAPORATED THIN-FILM DEVICES, 28 FEB 1963.  
BY WELMER D F DDC NUMBER 402887  
ROSWAN H INSTRUMENT AF 19C604006167  
SMALLCROSS F V PROJ/TASK 4608 04

AFRL 63 068  
MONTANA STATE COLL BOZEMAN  
ON DYNAMIC SWITCHING IN ONE-DIMENSIONAL ITERATIVE LOGIC  
NETWORKS, MAR 1963.  
BY WELMER D F DDC NUMBER 408414  
INSTRUMENT AF 19C604006619  
PROJ/TASK 5632 02

AFRL 63 069  
GENERAL ELECTRIC CO SCHENECTADY N Y  
INVESTIGATION OF VARIOUS ACTIVATOR REFRACTORY SUBSTRATE  
COMBINATIONS, 5 MAR 1963.  
BY APPELCK J H DDC NUMBER 401933  
INSTRUMENT AF 19C628000273  
PROJ/TASK 4619 01

AFRL 63 070  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
CANCELLATION OF DOPPLER FREQUENCY SHIFT, MAR 1963.  
BY WAETJEN R M DDC NUMBER 404478  
PROJ/TASK 4610 06

AFRL 63 071  
TEXAS U AUSTIN  
HIGH ALTITUDE MICROVARIATIONS WITHIN THE ATMOSPHERES  
RADIO REFRACTIVE-INDEX PROFILE, 28 FEB 1963.  
BY DEAN A D DDC NUMBER 404447  
WALKER G R INSTRUMENT AF 19C604008038  
PROJ/TASK 4603

AFRL 63 072  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
APPLICATION STUDIES OF COMBINED ANALOG-DIGITAL COMPUTATION  
TECHNIQUES, FEB 1963.  
BY HILLS F R DDC NUMBER 404179  
INSTRUMENT AF 19C604006654  
PROJ/TASK 4641 02

AFRL 63 073  
AVCO CORP WILMINGTON MASS  
INVESTIGATION OF THERMAL IMAGING TECHNIQUES, 15 MAR 1963.  
BY LASZLO T S DDC NUMBER 404281  
SHEPHERD P J JR INSTRUMENT AF 19C604007204  
PROJ/TASK 461946190

AFRL 63 074  
STANFORD RESEARCH INST MENLO PARK CALIF  
INVESTIGATION OF SOLID STATE ELECTROLYTE BEHAVIOR IN  
SEMICONDUCTORS, 4 FEB 1963.  
BY FREDERICKS W J DDC NUMBER 407809  
FRANKHA F J INSTRUMENT AF 19C604007231  
BLUM D S PROJ/TASK 4620 01  
SCOTT A R

AFRL 63 075  
TYCO LABS INC WALTHAM MASS  
THE TRAVELLING SOLVENT METHOD OF CRYSTAL GROWTH, 12 MAR  
1963.  
BY GRIFFITHS L R DDC NUMBER 400993  
WRIGHT M A INSTRUMENT AF 19C604008803  
BLAVSKY A I PROJ/TASK 4608 04

AFRL 63 076  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
MODAL ANALYSIS AND SYNTHESIS OF ELECTROMAGNETIC FIELDS, 14  
NOV 1962.  
BY PFLSEN L R DDC NUMBER 415851  
MARCUVITZ N INSTRUMENT AF 19C604007499  
PROJ/TASK 4600 04

AFRL 63 077  
TENNESSEE U ENDRVILLE  
FIRST ORDER EXPANENCES OF A CIRCULAR ANTENNA ARRAY, 1 MAR  
1963.  
BY HICKMAN C F DDC NUMBER 403470  
INSTRUMENT AF 19C608000286  
PROJ/TASK 4600 02

AFRL 63 078  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
EPOXY VACUUM SEAL FOR INTRODUCTION OF LEADS INTO CRYOGENIC  
EQUIPMENT, MAR 1963.  
BY LIPSON H C DDC NUMBER 410018  
MOUTHILLFETTER L O PROJ/TASK 4608 04

AFRL 63 079  
ROME U ITALY  
MODES WITH COMPLEX PROPAGATION CONSTANT IN RECTANGULAR  
GUIDES LOADED WITH TRANSVERSELY MAGNETIZED LOSSLESS  
FERRITE, 20 JUN 1962.  
BY BARZILAI G DDC NUMBER 402133  
GROSSA G INSTRUMENT AF 61602500101  
PROJ/TASK 5633 02

AFRL 63 080  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
CERENKOV RADIATION FROM A CHARGED PARTICLE IN UNIFORM  
STRAIGHT MOTION THROUGH A PARTICULAR STRATIFIED MEDIUM,  
NOV 1962.  
BY BONCHI L DDC NUMBER 401845  
SCHEGGI A M INSTRUMENT AF 61602500101  
PROJ/TASK 5635 01

AFCL 63 081  
SLENIA S P A ROVE ITALY  
MICROWAVE INVESTIGATION OF THE DIELECTRIC WAVEGUIDE  
PROPAGATION BY MAGNETO-IONIC DUCTS, JUL 1962.  
BY GILARDINI I A DDC NUMBER 404574  
INSTRUMENT AF 61<052>00145  
PROJ/TASK 5630

AFCL 63 082  
CHALMERS INST OF TECH GOTHENBURG SWEDEN  
DYNAMIC NONLINEAR WAVE PROPAGATION IN IONIZED MEDIA. B.  
REFLECTION OF ELECTROMAGNETIC WAVES FROM A DIELECTRIC  
PLANE LAYER, VARYING PERIODICALLY IN SPACE AND TIME, 1962.  
BY THOMASSON A R DDC NUMBER 402603  
INSTRUMENT AF 61<052>00451  
PROJ/TASK 5561 01

AFCL 63 083  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
ELECTROMAGNETIC CONTROL OF THE ATTITUDE OF SPACE VEHICLES,  
DEC 1962.  
BY BRUSCAGLIONI P DDC NUMBER 402114  
CONSORTINI A INSTRUMENT AF 61<052>00537  
PROJ/TASK 4600  
PROJ/TASK 461046107

AFCL 63 084  
MINNESOTA U MINNEAPOLIS  
STUDIES OF PRIMARY ELECTRON SOURCES, JAN 1963.  
BY ANDERSON D F DDC NUMBER 406054  
INSTRUMENT AF 19<604>08381  
PROJ/TASK 461946190

AFCL 63 085  
NEW YORK U NEW YORK  
REALIZABILITY CONDITIONS OF TWO-PORT NETWORK PARAMETERS,  
MAR 1963.  
BY MAISEL R DDC NUMBER 404503  
INSTRUMENT AF 19<628>00379  
PROJ/TASK 5632 04

AFCL 63 086  
GENERAL TELEPHONE AND ELECTRONICS LABS INC RAYSIDE N Y  
STUDY OF ADSORPTION OF GASES ON SOLIDS IN THE HIGH VACUUM  
RANGE, 31 DEC 1962.  
BY BLIVEN C M DDC NUMBER 402932  
POLYANI T G INSTRUMENT AF 19<628>00331  
PROJ/TASK 5634 05

AFCL 63 087  
AF DAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
HIGH ALTITUDE X-BAND NOISE MEASUREMENTS, APR 1963.  
BY HUNT S DDC NUMBER 404504  
ORANGE A S PROJ/TASK 4610 01  
GLICK K

AFCL 63 089  
SYSTEMS DEVELOPMENT CORP SANTA MONICA CALIF  
ROUNDED ALGOL-LIKE LANGUAGES, 11 FEB 1963.  
BY GINSBURG S DDC NUMBER 403406  
SPANIER F H INSTRUMENT AF 19<628>00485  
PROJ/TASK 464146410

AFCL 63 090  
HARVARD U CAMBRIDGE MASS  
THEORETICAL AND EXPERIMENTAL STUDIES OF ANTENNAS AND  
ARRAYS IN A PARALLEL-PLATE REGION, 5 OCT 1962.  
BY RAO B R DDC NUMBER 410102  
INSTRUMENT AF 19<604>04118  
PROJ/TASK 5635 02

AFCL 63 091  
SYRACUSE U N Y  
SENSITIVITY CONSIDERATIONS IN ACTIVE NETWORK SYNTHESIS.  
BY BALABANIAN N DDC NUMBER 403403  
INSTRUMENT AF 19<628>01649  
PROJ/TASK 5628

AFCL 63 092  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
HIGH-DIELECTRIC-CONSTANT MATERIALS AND FERROELECTRICITY,  
MAR 1963.  
BY VON HIPPEL A DDC NUMBER 404776  
INSTRUMENT AF 19<604>06155  
PROJ/TASK 5633 02

AFCL 63 093  
AF DAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
PRECISION TIME OR FREQUENCY TRANSMISSION TO MOVING  
VEHICLES, APR 1963.  
BY WAETJEN R M DDC NUMBER 405044  
PROJ/TASK 4610 06

AFCL 63 094  
TELEDYNE SYSTEMS CORP HAWTHORNE CALIF  
TRANSVERSE DOPPLER PATTERN MEASUREMENT TECHNIQUE, 1 FEB  
1963.  
BY HOUIGARDY H H DDC NUMBER 408271  
MCFADDEN R K INSTRUMENT AF 19<604>08362  
PROJ/TASK 4600 07

AFCL 63 095  
PARKE MATHEMATICAL LABS INC CARLISLE MASS  
ON THE WEIGHTS OF THE ELEMENTS OF BINARY GROUP CODES, MAR  
1963.  
BY CALABI L DDC NUMBER 409595  
MYRVAAGNES F INSTRUMENT AF 19<604>07493  
PROJ/TASK 4628

AFCL 63 096  
RAYTHEON CO WALTHAM MASS  
INVESTIGATION OF THE MICROWAVE PROPERTIES OF  
FERROELECTRICS, 20 JAN 1961 THROUGH 19 JAN 1963.  
BY SILVERMAN B D DDC NUMBER 403659  
JOSEPH R I INSTRUMENT AF 19<604>08005  
WINTER W PROJ/TASK 4600 03

AFCL 63 097  
NEW YORK U NEW YORK  
RESEARCH ON THE PREPARATION OF PURE METALS, 15 MAR 1963.  
BY BRENNER W DDC NUMBER 405947  
MARSEL C J INSTRUMENT AF 19<604>04124  
PROJ/TASK 562056204

AFCL 63 098  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
PATTERN RECOGNITION AND DETECTION BY MACHINE, 8 MAR 1963.  
BY LAEMMEL A F DDC NUMBER 418387  
INSTRUMENT AF 19<628>00375  
PROJ/TASK 4691 03

AFCL 63 099  
RAYTHEON CO WAYLAND MASS  
A NEW TECHNIQUE FOR SIMULTANEOUS RADAR OBSERVATION OF  
MULTIPLE TARGETS WITHIN A BROAD SURVEILLANCE REGION, 31  
DEC 1962.  
BY GROGINSKY H L DDC NUMBER 403661  
YOUNG J D INSTRUMENT AF 19<628>00361  
PROJ/TASK 4600 06

AFCL 63 100  
INNSBRUCK U AUSTRIA  
ON THE PROPAGATION OF VLF WAVES IN SOLIDS, 20 DEC 1962.  
BY BITTERLICH W DDC NUMBER 402314  
INSTRUMENT AF 61<052>00490  
PROJ/TASK 4610 01

AFCL 63 101  
CENTRO RADIOELETTRICO SPERIMENTALE ROME ITALY  
RADIO COMMUNICATION BY BACKSCATTER, 31 DEC 1962.  
BY RANZI I DDC NUMBER 404270  
INSTRUMENT AF 61<052>00139  
PROJ/TASK 563056302

AFCL 63 102  
THOMAS A S INC WESTWOOD MASS  
NEW TECHNIQUES OF PATTERN SHAPING FOR LOW SILHOUETTE  
ANTENNAS, JAN 1963.  
BY THOMAS A S DDC NUMBER 403979  
INSTRUMENT AF 19<604>04983  
PROJ/TASK 4600 02

AFCL 63 103  
GENERAL TELEPHONE AND ELECTRONICS LABS INC PALO ALTO CALIF  
INVESTIGATION OF THE ENERGY LEVELS OF MAGNETIC IONS IN THE  
COMPLEX METAL OXIDES, ESPECIALLY IN THE ORTHOFERRITES, 28  
MAR 1963.  
BY WHITE R L DDC NUMBER 403785  
INSTRUMENT AF 19<628>00387  
PROJ/TASK 5621 04

AFCL 63 104  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
CONSEQUENCES OF SYMMETRY IN PERIODIC STRUCTURES, 15 FEB  
1963.  
BY CREPEAU P J DDC NUMBER 405040  
MCISAAC P R INSTRUMENT AF 19<604>07499  
PROJ/TASK 4600 04

AFCL 63 105  
PARKE MATHEMATICAL LABS INC CARLISLE MASS  
ON THE MINIMAL WEIGHT OF BINARY GROUP CODES, MAR 1963.  
BY CALABI L DDC NUMBER 407059  
MYRVAAGNES F INSTRUMENT AF 19<604>07493  
PROJ/TASK 5628

AFCL 63 106  
HARVARD U CAMBRIDGE MASS  
THEORETICAL AND EXPERIMENTAL STUDIES OF ANTENNAS AND  
ARRAYS IN A PARALLEL-PLATE REGION, PART II. THE CURRENT  
DISTRIBUTION AND IMPEDANCE CHARACTERISTICS OF COUPLED  
ANTENNAS IN A PARALLEL-PLATE REGION, 15 MAR 1963.  
BY RAO B R DDC NUMBER 413091  
INSTRUMENT AF 19<604>04118  
PROJ/TASK 5635 02

AFCL 63 107  
HARVARD U CAMBRIDGE MASS  
THEORETICAL AND EXPERIMENTAL STUDIES OF ANTENNAS AND  
ARRAYS IN A PARALLEL-PLATE REGION, PART III. SOME  
INVESTIGATIONS ON A TWO-ELEMENT YAGI-TYPE ARRAY IN A  
PARALLEL-PLATE REGION, 15 MAR 1963.  
BY RAO B R DDC NUMBER 412855  
INSTRUMENT AF 19<628>02406  
PROJ/TASK 5635 02

AFCL 63 108  
HARVARD U CAMBRIDGE MASS  
THEORETICAL AND EXPERIMENTAL STUDIES OF ANTENNAS AND  
ARRAYS IN A PARALLEL-PLATE REGION, PART IV. WAVE  
PROPAGATION ALONG INFINITE YAGI-TYPE ARRAY IN A PARALLEL-  
PLATE REGION, 15 MAR 1963.  
BY RAO B R DDC NUMBER 413453  
INSTRUMENT AF 19<628>02406  
PROJ/TASK 5635 02

AFCL 63 109  
OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
UTILIZATION OF THE FARADAY EFFECT IN IONOSPHERIC STUDIES,  
15 MAR 1963.  
BY POTTS B C DDC NUMBER 403661  
INSTRUMENT AF 19<604>07270  
PROJ/TASK 4691 02

AFCL 63 110  
ELECTRONIC ASSOC INC PRINCETON N J  
EXPLORATORY PROGRAMMING STUDIES FOR IONOSPHERIC RAY  
TRACING, 8 OCT 1962.  
INSTRUMENT AF 19<604>07294  
PROJ/TASK 460346033



AFRL 63 111  
ELECTRONIC ASSOC INC PRINCETON N J  
PROGRAMMING STUDY FOR HIGH FREQUENCY EXOSPHERIC DUCTING,  
17 NOV 1962.  
BY RYADLE R  
PASSON D  
INSTRUMENT AF 19C628>01658  
PROJ/TASK 460346033

AFRL 63 112  
BOLT BRANER AND NEWMAN INC CAMBRIDGE MASS  
TECHNIQUES OF SIMPLIFICATION, 29 MAR 1963.  
BY LU KMAN D  
WILL T  
DDC NUMBER 410773  
INSTRUMENT AF 19C604>07290  
PROJ/TASK 563256122

AFRL 63 113  
HP ASSOC PALO ALTO CALIF  
INVESTIGATION OF HOT ELECTRON EMITTER, 1 DEC 1962 THROUGH  
28 FEB 1963.  
DDC NUMBER 406196  
INSTRUMENT AF 19C628>01637  
PROJ/TASK 4608 04

AFRL 63 114  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
RECFIRE ANTENNAS FOR SHF, UHF AND VHF BANDS, APR 1963.  
BY STROM J A  
PHEMSPERCK M W  
DDC NUMBER 406095  
PROJ/TASK 5635 04

AFRL 63 115  
CALIFORNIA INST OF TECH PASADENA  
MULTI-REFLECTOR OPTICAL RESONATORS, 10 APR 1963.  
BY CLARK P O  
DDC NUMBER 406323  
INSTRUMENT AF 19C604>08052  
PROJ/TASK 4600 06

AFRL 63 116  
SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
SCATTERING OF OBLIQUELY INCIDENT LIGHT WAVES BY ELLIPTICAL  
FIBERS, APR 1963.  
BY YEH C W H  
DDC NUMBER 409077  
INSTRUMENT AF 19C604>06195  
PROJ/TASK 4642 02

AFRL 63 117  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
PROJECT FISH BOWL VERTICAL AND OBLIQUE SOUNDER  
MEASUREMENTS C-15, APR 1963, SECRET-RESTRICTED DATA.  
BY GRIFFIN W C  
JONES R R  
MCCART L J  
NEWMAN P  
SULLIVAN J A  
DDC NUMBER 339723

AFRL 63 118  
NORTHWESTERN U BOSTON MASS  
STUDY AND INVESTIGATION OF SPEECH DATA, 15 MAR 1963.  
BY DOLANSKY L  
HARRIS J T  
HOWARD C R  
KARIS C  
DDC NUMBER 413461  
INSTRUMENT AF 19C628>00189  
PROJ/TASK 4610 02

AFRL 63 119  
TEXAS INSTRUMENTS INC DALLAS  
SPEAKER RECOGNITION, MAY 1963.  
BY HOLMGREN G L  
DDC NUMBER 407496  
INSTRUMENT AF 19C628>00345  
PROJ/TASK 4610 02

AFRL 63 120A  
GENERAL ELECTRIC CO SCHENECTADY N Y  
SEMICONDUCTOR DEVICE CONCEPTS, 28 FEB 1963.  
DDC NUMBER 408664  
INSTRUMENT AF 19C628>00329  
PROJ/TASK 4608 04

AFRL 63 120B  
GENERAL ELECTRIC CO SYRACUSE N Y  
SEMICONDUCTOR DEVICE CONCEPTS, 28 FEB 1963.  
DDC NUMBER 409316  
INSTRUMENT AF 19C628>00329  
PROJ/TASK 4608 04

AFRL 63 121  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
ON THE CHARACTERISTICS OF A GLOW DISCHARGE BETWEEN COAXIAL  
CYLINDERS IMMERSED IN A MAGNETIC FIELD, APR 1963.  
BY HOFFMAN J F JR  
DDC NUMBER 405869  
PROJ/TASK 5633

AFRL 63 122  
FLORIDA U GAINESVILLE  
ASYMPTOTIC ERROR CODING BOUNDS FOR THE BINARY SYMMETRIC  
CHANNEL WITH FEEDBACK, 1 APR 1963.  
BY WELDON F I JR  
DDC NUMBER 412791  
INSTRUMENT AF 19C628>00431  
PROJ/TASK 5632 04

AFRL 63 123  
ILLINOIS U URBANA  
MICROWAVE INVESTIGATION OF ELECTRICALLY DRIVEN SMOKE WAVES  
IN GASES, MAR 1963.  
BY GERARDO J  
HENRICHES C D JR  
GOLDSTEIN L  
DDC NUMBER 407701  
INSTRUMENT AF 19C604>07473  
PROJ/TASK 563446101

AFRL 63 124  
STANFORD U CALIF  
SECOND HARMONIC GENERATION USING FERRIMAGNETIC MATERIALS  
WITH MICROWAVE RESONATORS, APR 1963.  
BY KIRCHNER F K  
DDC NUMBER 410988  
INSTRUMENT AF 19C628>00342  
PROJ/TASK 4500 03

AFRL 63 125  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
THE REACTANCE OF A SYMMETRICAL PAIR OF STRIPS IN  
RECTANGULAR WAVEGUIDE, 23 APR 1963.  
BY LEWIN L  
DDC NUMBER 406298  
INSTRUMENT AF 19C604>07499  
PROJ/TASK 4600 04

AFRL 63 126  
AVCO-FERRETT CORP EVERETT MASS  
HYDRODYNAMIC EFFECTS PRODUCED BY PULSE MICROWAVE  
DISCHARGES, OCT 1962.  
BY LIN S C  
THEOFILOU G P  
DDC NUMBER 405407  
INSTRUMENT AF 19C604>07458  
PROJ/TASK 5561 12

AFRL 63 127  
AVCO-FERRETT CORP EVERETT MASS  
INVESTIGATION OF THE EFFECTS OF HIGH INTENSITY  
ELECTROMAGNETIC WAVES ON THE TRANSPORT PROPERTIES AND  
PHENOMENA OF IONIZED GAS AT ELEVATED TEMPERATURES, APR 1963  
DDC NUMBER 407346  
INSTRUMENT AF 19C604>07458  
PROJ/TASK 5561 12

AFRL 63 128  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
SOLID STATE SCIENCE LAB L G HANSCOM FIELD MASS  
ANALYSIS OF A DOUBLY-PARABOLOIDAL MIRROR SYSTEM, JUN 1963.  
BY COPPEY D W  
DDC NUMBER 414547  
PROJ/TASK 5634

AFRL 63 129  
MINNESOTA U MINNEAPOLIS  
STUDIES OF PRIMARY ELECTRON SOURCES, APR 1963.  
BY ANDERSON R F  
DDC NUMBER 413477  
INSTRUMENT AF 19C604>08181  
PROJ/TASK 461946130

AFRL 63 130  
PARKE MATHEMATICAL LABS INC CARLISLE MASS  
BASIC FEATURES COMMON TO SOME COMBINATORIAL COVERING  
PROBLEMS, FEB 1963.  
BY RILEY J A  
DDC NUMBER 408347  
INSTRUMENT AF 19C628>02417  
PROJ/TASK 4608 04

AFRL 63 131  
STANFORD RESEARCH INST MENLO PARK CALIF  
ONE-SIDED MULTIPACTOR DISCHARGE MODES, APR 1963.  
BY VANCE F F  
WANVITZ J F  
DDC NUMBER 409504  
INSTRUMENT AF 19C628>00325  
PROJ/TASK 4600 01

AFRL 63 132  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
A DEFORMATION METHOD FOR THE MINIMIZATION OF A QUADRATIC  
FUNCTION SUBJECT TO LINEAR INEQUALITY CONSTRAINTS, MAY  
1963.  
BY ZAHL S  
DDC NUMBER 409679  
PROJ/TASK 4632 01

AFRL 63 133  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
NONLINEAR TRANSMISSION CHARACTERISTICS OF THE PLASMA  
SHEATH, MAY 1963.  
BY PAPA R J  
DDC NUMBER 417089  
PROJ/TASK 4642 01

AFRL 63 134  
HARVARD U CAMBRIDGE MASS  
INFORMATION STORAGE AND RETRIEVAL, JAN 1963.  
BY SALTON G  
INSTRUMENT AF 19C604>08509  
PROJ/TASK 5632  
PROJ/TASK 5633

AFRL 63 135A  
NATIONAL BUREAU OF STANDARDS BOULDER COLO  
THE OBLIQUE PROPAGATION OF GROUND WAVES COASTLINES  
PART I, 22 APR 1963.  
BY WAIT J R  
INSTRUMENT PRO-62-201  
PROJ/TASK 4600 04

AFRL 63 135B  
NATIONAL BUREAU OF STANDARDS BOULDER COLO  
THE OBLIQUE PROPAGATION OF GROUND WAVES ACROSS A COASTLINE  
PART II, 15 MAY 1963.  
BY WAIT J R  
JACKSON C M  
INSTRUMENT PRO-62-201  
PROJ/TASK 4600 04

AFRL 63 136  
RADIATION SYSTEMS INC ALEXANDRIA VA  
INVESTIGATION OF A MULTIPLE BEAM SCANNING CIRCULAR ARRAY,  
31 DEC 1962.  
BY CHADWICK G C  
GLASS J C  
DDC NUMBER 411868  
INSTRUMENT AF 19C628>00367  
PROJ/TASK 4600 07

AFRL 63 137  
PARKE MATHEMATICAL LABS INC CARLISLE MASS  
DECODING RULES FOR CERTAIN PRODUCT CODES, MAR 1963.  
BY CALARI L  
WAEFFEL H G  
DDC NUMBER 409453  
INSTRUMENT AF 19C604>07493  
PROJ/TASK 5638

AFRL 63 138  
HUGHES AIRCRAFT CO CULVER CITY CALIF  
A WAVEGUIDE SLOT SWITCHING TECHNIQUE, APR 1963.  
BY GOERELS F J JR  
WONNENACKER C W JR  
DDC NUMBER 407186  
INSTRUMENT AF 19C604>08185  
PROJ/TASK 4600 01

AFRL 63 139  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
LEAKY WAVE RADIATION FROM A PERIODICALLY SLOTTED WAVEGUIDE  
8 MAY 1963.  
RY REFAULT J-P  
INSTRUMENT AF 19<604>07499  
PROJ/TASK 4600 04

AFRL 63 140  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
SOLID STATE SCIENCES LAB L G HANSCOM FIELD MASS  
REDUNDANT EQUIVALENT LINEAR PASSIVE NETWORKS AND STABILITY  
MAY 1963.  
RY RICHMAN R L  
DDC NUMBER 41338  
PROJ/TASK 4608

AFRL 63 141  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS DATA SCIENCES LAB  
L G HANSCOM FIELD MASS  
TESTING FOR EXTRASENSORY PERCEPTION WITH A MACHINE, MAY  
1963.  
RY SMITH W R  
DAGLE F P  
MILL W D  
WOFF-SMITH J  
DDC NUMBER 41480  
PROJ/TASK 4610 07

AFRL 63 142  
TEXAS U AUSTIN  
AN EXPERIMENT ON MISSILE DETECTION AT GRAND HANAMA ISLAND.  
<U> 30 MAY 1963. SECRET.  
RY HOPKINS G JR  
BOSTICK F K JR  
DDC NUMBER 337867  
INSTRUMENT AF 19<604>08913  
PROJ/TASK 4610 01

AFRL 63 145  
RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER  
PRINCETON N J  
MAXIMIZING THE PERFORMANCE OF PHOTOCONDUCTORS, 30 APR 1963  
RY ANDERSON W M  
DREFFRN A R  
DREFFNR J  
DDC NUMBER 411383  
INSTRUMENT AF 19<604>08353  
PROJ/TASK 4608 04

AFRL 63 146  
ALASKA U COLLEGE  
ARCTIC PROPAGATION STUDIES AT IONOSPHERIC MODES OF  
PROPAGATION, MAY 1963.  
RY OWREN L  
ORTNER J  
FOLKESTAD K  
MUNSLUCKER R D  
INSTRUMENT AF 19<604>05574  
PROJ/TASK 5631 03

AFRL 63 147  
WESTINGHOUSE ELECTRIC CORP PITTSBURGH PA  
SPIN-LATTICE RELAXATION OF F-CENTERS IN POTASSIUM CHLORIDE  
4 MAY 1963.  
RY FLEMMAN D W  
WARREN R W  
CASTLE J G JR  
DDC NUMBER 411237  
INSTRUMENT AF 19<628>01640  
PROJ/TASK 4608 03

AFRL 63 148  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS DATA SCIENCES LAB  
L G HANSCOM FIELD MASS  
ON THE MINIMAL COVERING PROBLEM, JUN 1963.  
RY DEFRICK S R  
DDC NUMBER 415321  
PROJ/TASK 563256725

AFRL 63 149A  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
MICROWAVE PHYSICS LAB L G HANSCOM FIELD MASS  
NONLINEAR OSCILLATION AND NEUROELECTRIC PHENOMENA, 1, JUN  
1963.  
RY DEWAN F M  
DDC NUMBER 411851  
PROJ/TASK 5635 01

AFRL 63 150  
COLUMBIA U NEW YORK N Y  
A FORMAL SOLUTION TO MAXWELL-S EQUATIONS FOR GENERAL  
LINEAR MEDIA, 15 MAY 1963.  
RY DIAMANT P  
DDC NUMBER 410527  
INSTRUMENT AF 19<628>02461  
PROJ/TASK 4600 04

AFRL 63 151  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
SCATTERING RESONANCES ON A FAST-WAVE STRUCTURE, JUN 1963.  
RY LI R C M  
DDC NUMBER 416437  
INSTRUMENT AF 19<604>07499  
PROJ/TASK 4600 04

AFRL 63 152  
NEW YORK U NEW YORK  
SOME GENERAL RESULTS FOR THE N-PORT, MAY 1963.  
RY STOCK D J R  
KAPLAN L J  
DDC NUMBER 409704  
INSTRUMENT AF 19<604>07406  
PROJ/TASK 5635 01

AFRL 63 153  
CALIFORNIA U BERKELEY  
DC ELECTROLUMINESCENCE IN MANGANESE-ACTIVATED ALUMINUM-  
OXIDE FILMS, 11 SEP 1963.  
RY SPINAZZE I  
DDC NUMBER 415760  
INSTRUMENT AF 19<628>00324  
PROJ/TASK 4634 02

AFRL 63 154  
SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
INVESTIGATION OF CHEMICAL NONEQUILIBRIUM EFFECTS IN  
VISCOS SHOCK LAYERS, MAY 1963.  
RY CHOLIMBURY R R  
MERRIGAN M  
STADLEMAN D  
DDC NUMBER 409732  
INSTRUMENT AF 19<604>08421  
PROJ/TASK 4642 02

AFRL 63 155  
STANFORD RESEARCH INST MENLO PARK CALIF  
AN AUTOMATIC SYST M FOR MEASURING PLASMA PARAMETERS, MAY  
1963.  
RY SCHARFMAN W F  
DDC NUMBER 408418  
INSTRUMENT AF 19<628>00325  
PROJ/TASK 4600 01

AFRL 63 156  
DENVER U RESEARCH INST COLO  
DETERMINATION OF THERMODYNAMIC PROPERTIES OF SEMICONDUCTOR  
MATERIALS, 28 MAY 1963.  
RY LUNDIN C F  
POOL W J  
SULLIVAN R W  
INSTRUMENT AF 19<604>07222  
PROJ/TASK 4608

AFRL 63 157  
NEW YORK U NEW YORK  
THE EXACT SYNTHESIS OF DISTRIBUTED RC NETWORKS, MAY 1963.  
RY WYNDRUM R W JR  
DDC NUMBER 409974  
INSTRUMENT AF 19 628>00379  
PROJ/TASK 5628 01

AFRL 63 158  
RAYTHEON CO NORWOOD MASS  
IONOSPHERIC DISTURBANCE STUDIES <U>, 15 FEB 1963. SECRET.  
DDC NUMBER 339620  
INSTRUMENT AF 19<604>05984  
PROJ/TASK 464946491

AFRL 63 159  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS DATA SCIENCES LAB  
L G HANSCOM FIELD MASS  
SIMULATION EXPERIMENTS IN TWO-WAY CONTROLLED CARRIER  
TRANSMISSION, OCT 1963.  
RY MARCA R J  
DDC NUMBER 412459  
PROJ/TASK 4610 07

AFRL 63 160  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
A LITERATURE SURVEY OF THE PURIFICATION OF ELECTRONIC  
MATERIALS, JUN 1963.  
RY ARMINGTON A F  
DILLON G F  
MITCHELL R F  
DDC NUMBER 412458  
PROJ/TASK 5620 04

AFRL 63 161  
RCA VICTOR CO LTD MONTREAL P Q CANADA  
MICROWAVE MEASUREMENTS OF FINITE PLASMAS, MAY 1963.  
RY BACHYNSKI M P  
CLOUTIER G G  
GRAF K A  
DDC NUMBER 415324  
INSTRUMENT AF 19<604>07334  
PROJ/TASK 4642 01

AFRL 63 162  
RAYTHEON CO WALTHAM MASS  
INVESTIGATION OF EFFECTS OF ION-INDUCED DEFECTS ON SURFACE  
REACTIONS.  
RY MARGONINSKI Y  
SHOOTER D  
DDC NUMBER 410488  
INSTRUMENT AF 19<604>08004  
PROJ/TASK 5620 03

AFRL 63 163  
DARKE MATHEMATICAL LABS INC CARLISLE MASS  
PROGRESSIVE RELIABILITY FUNCTIONS, JAN 1963.  
RY DARKE N G III  
MONTGOMERY C R  
DDC NUMBER 413136  
INSTRUMENT AF 19<628>02417  
PROJ/TASK 4608 04

AFRL 63 164  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
A MATHEMATICAL MODEL OF PLUM-S THEORY OF PATTERN  
RECOGNITION, APR 1963.  
RY KOTELLY J C  
DDC NUMBER 412437  
PROJ/TASK 4645

AFRL 63 165  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
MICROWAVE PHYSICS LAB L G HANSCOM FIELD MASS  
ELECTROMAGNETIC BOUNDARY WAVES <AN INTRODUCTION>, JUN 1963  
RY ZUCKER F J  
DDC NUMBER 412287  
PROJ/TASK 5635 02

AFRL 63 166  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
RADIATION FROM A CHARGED PARTICLE PASSING THROUGH A  
CIRCULAR OPENING IN A PERFECTLY CONDUCTING SCREEN, MAR 1963  
RY RONCHI L  
DDC NUMBER 413342  
INSTRUMENT AF-E0AR -0103-62  
PROJ/TASK 5635 01

AFRL 63 167  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
TRANSITION RADIATION FOR A CHARGED PARTICLE AT OBLIQUE  
INCIDENCE, MAR 1963.  
RY RONCHI L  
DDC NUMBER 413446  
INSTRUMENT AF-E0AR -0103-62  
PROJ/TASK 5635 01

AFRL 63 168  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
RADIATION FROM A CHARGED PARTICLE IN UNIFORM STRAIGHT  
MOTION THROUGH A PERIODIC SET OF DIELECTRIC PLATES, MAR  
1963.  
RY SCHEGGI A M  
DDC NUMBER 413138  
INSTRUMENT AF-E0AR -0103-62  
PROJ/TASK 5635 01

AFRL 63 169  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
FUNDAMENTAL RESEARCH ON ELECTROMAGNETIC THEORY AND  
MICROWAVE SPECTROSCOPY, MAY 1963.  
RY PRATESI B  
RONCHI L  
SCHEGGI A M  
DE FRANCIA G T  
DDC NUMBER 413327  
INSTRUMENT AF-E0AR -0103-62  
PROJ/TASK 5635 01

AFCL 63 170  
GENERAL TELEPHONE AND ELECTRONICS LABS INC BAYSIDE N Y  
STUDY OF ADSORPTION OF GASES ON SOLIDS IN THE HIGH VACUUM  
RANGE, 30 APR 1963.  
BY BLIVEN C W DDC NUMBER 410433  
FLORIO J V INSTRUMENT AF 19C628>00331  
POLANYI Y G PROJ/TASK 5634 05

AFCL 63 171  
WESTINGHOUSE ELECTRIC CORP PITTSBURGH PA  
PARAMAGNETIC RESONANCE ABSORPTION BY THE TITANIUM ION IN  
CORUNDUM, 22 MAY 1963.  
BY CASTLE J G JR DDC NUMBER 416223  
FLEMMAN D W INSTRUMENT AF 19C628>01640  
BURNHAM D C PROJ/TASK 4608 03  
BITHA C

AFCL 63 172  
INTERNATIONAL TELEPHONE AND TELEGRAPH CORP HUTLEY N J  
TRACE IMPURITY EFFECTS ON GROWTH KILLOCKS DURING EXHAUSTIAL  
ELECTRODEPOSITION FROM COPPER PERCHLORATE SOLUTIONS, MAY  
1963.  
BY SHANFIELD D DDC NUMBER 411873  
LIGHTY P F INSTRUMENT AF 19C604>08490  
PROJ/TASK 4608 03

AFCL 63 173  
BOSTON COLL CHESTNUT HILL MASS  
GEOLOGY OF THE BASIN COMPLEX OF SOUTHEASTERN NEBRASKA,  
NORTHEASTERN KANSAS AND VICINITY, 12 JUN 1963.  
BY REPMAN J W DDC NUMBER 414556  
INSTRUMENT AF 19C628>01622  
PROJ/TASK 4610 01

AFCL 63 174  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
ACOUSTIC SPECIFICATION OF SPEECH, 28 JAN 1963.  
BY FANT C G W INSTRUMENT AF-EOAR -0082-62  
PROJ/TASK 4610 02

AFCL 63 175  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
QUARTERLY PROGRESS AND STATUS REPORT, 15 JAN 1963.  
BY FANT C G W INSTRUMENT AF-EOAR -0082-62  
PROJ/TASK 4610 02

AFCL 63 176  
CORNELL U ITHACA N Y  
CONSTRUCTION OF THE DEPARTMENT OF DEFENSE IONOSPHERIC  
RESEARCH FACILITY - VI, 30 JUN 1963.  
INSTRUMENT AF 19C604>06158  
PROJ/TASK 4781

AFCL 63 177  
AEROSPACE RESEARCH INC BOSTON MASS  
TESTING OF IONOSPHERIC ABSORPTION MEASUREMENT EQUIPMENT  
AND STUDY OF IMPROVED TECHNIQUES FOR DATA COLLECTION, 30  
APR 1963.  
BY FIDSON J R DDC NUMBER 417643  
GOLDMAN S C INSTRUMENT AF 19C628>00359

AFCL 63 178  
RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER  
PRINCETON N J  
EVAPORATED THIN-FILM DEVICES, 10 JUN 1963.  
BY BORKAN M DDC NUMBER 417887  
WAXMAN A INSTRUMENT AF 19C628>01617  
SMALLCROSS F V PROJ/TASK 4608 04  
WEIFER R K

AFCL 63 179  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
PERCEPTION OF TWO-COMPONENT NOISE BURSTS.  
BY STEVENS K M INSTRUMENT AF 19C604>06102  
SANDER T T PROJ/TASK 4610 02  
HOUER A S

AFCL 63 180  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
ANALYSIS OF NASAL CONSONANTS, DEC 1962.  
J ACQUIST SOC AM 76 12 1865-1875  
BY FUJIMURA O INSTRUMENT AF 19C604>06102  
PROJ/TASK 4610 02

AFCL 63 181  
SYSTEMS DEVELOPMENT CORP SANTA MONICA CALIF  
AN EXTENSION OF ALGOL-LIKE LANGUAGES, 21 MAY 1963.  
BY ROSE R F DDC NUMBER 408666  
INSTRUMENT AF 19C628>00485  
PROJ/TASK 464146410

AFCL 63 182  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
LINE SOURCE ANTENNA ARRAYS FOR CONTROL OF PATTERN,  
DISPERSION AND PHASE, JUN 1963.  
BY SLETTEN C J DDC NUMBER 413410  
BLACKSMITH F JR PROJ/TASK 4600 07  
MOLT F S

AFCL 63 183  
PITTSBURGH U PA  
A STUDY OF RADIATION EFFECTS ON SOLIDS USING CYCLOTRON  
IRRADIATIONS, 14 JUN 1963.  
BY TOWNSEND J P INSTRUMENT AF 19C604>03906  
PROJ/TASK 4620 02

AFCL 63 184  
ALASKA U COLLEGE  
STUDY OF THE ARCTIC IONOSPHERE BY MEANS OF STEP-FREQUENCY  
BACKSCATTER SOUNDING, JUN 1963.  
BY RATES H F DDC NUMBER 412950  
INSTRUMENT AF 19C628>00440

AFCL 63 184  
RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER  
PRINCETON N J  
THEORY OF ADJUSTABLE SWITCHING NETWORKS, 30 APR 1963.  
BY AMARFI S DDC NUMBER 414517  
LEVY R V INSTRUMENT AF 19C604>08423  
SRINIVASANA C V PROJ/TASK 4641 01  
WINDER R O

AFCL 63 186  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS DATA SCIENCES LAB  
L G HANSCOM FIELD MASS  
ACCURATE LOG AND INVERSE-LOG FUNCTION GENERATING CIRCUITS  
FOR USE IN DIGITAL VOCODER PITCH CHANNEL, JUN 1963.  
BY KRIGER L V DDC NUMBER 413479  
PROJ/TASK 4610 02

AFCL 63 187  
NEW YORK U NEW YORK  
RELIABILITY IMPROVEMENT OF DIGITAL COMMUNICATION USING  
REDUNDANCY IN UNCERTAINTY REGION RECEPTION, JUN 1963.  
BY KURZ L DDC NUMBER 414370  
INSTRUMENT AF 19C604>06128  
PROJ/TASK 4610 03

AFCL 63 188  
INTERNATIONAL RESEARCH INST PRINCETON N J  
INTRODUCTION TO SEMI-AUTOMATED MATHEMATICS, SECTION ONE,  
A PROGRAMMING LANGUAGE FOR NATURAL DEDUCTION, SECTION TWO,  
AXIOMATIC THEOREM PROVING, 15 APR 1963.  
BY WOTT T H JR DDC NUMBER 411929  
GIARD J B INSTRUMENT AF 19C628>00468  
BENNETT J H PROJ/TASK 5632 05  
FASTON W R

AFCL 63 189  
CUTLER-HAMMER INC DEER PARK N Y  
ANTENNA SITING STUDY, JUN 1963.  
BY DOPOVICH R DDC NUMBER 415810  
INSTRUMENT AF 19C604>08814  
PROJ/TASK 4600 04

AFCL 63 191  
NEW YORK U NEW YORK  
ON THE PRINCIPLE OF LIMITING ABSORPTION (RUS'IAN).  
BY EIDUS D W INSTRUMENT AF 19C604>05238  
PROJ/TASK 5635 02

AFCL 63 192  
OXFORD U ENGLAND  
PROPERTIES OF RARE EARTH AND TRANSITION GROUP IONS, 4 APR  
1963.  
BY ALFANBY A DDC NUMBER 411447  
INSTRUMENT AF 61C052>00124  
PROJ/TASK 5621 04

AFCL 63 193  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
SOLID STATE SCIENCES LAB L G HANSCOM FIELD MASS  
THE VERNEUIL FURNACE - ITS OPERATION AND FUNCTIONAL USE IN  
GROWING SINGLE CRYSTALS,  
LAPIDARY J DEC 1962  
BY OSHEKSKY G D DDC NUMBER 412447  
HEMMENWAY K N PROJ/TASK 5621

AFCL 63 194  
GENERAL TELEPHONE AND ELECTRONICS LABS INC BAYSIDE N Y  
STUDIES OF ELECTRONIC MATERIALS AND THERMIONIC EMISSION  
PROCESSES, 31 JAN 1963.  
BY FLORIO J V DDC NUMBER 413928  
SANDOR A INSTRUMENT AF 19C604>07286  
WALLACE R A PROJ/TASK 4619 01  
POLANYI Y G

AFCL 63 195  
CALIFORNIA U BERKELEY  
DISPERSION RELATIONS FOR QUASI-STATIC WAVES ON MOVING  
FINITE CROSS-SECTION PLASMAS, 14 DEC 1962.  
BY LICHTENBERG A J DDC NUMBER 416790  
INSTRUMENT AF 19C628>00724  
PROJ/TASK 5634 02

AFCL 63 196  
LITTLE ARTHUR D INC CAMBRIDGE MASS  
A DOUBLE COMPOUND THERMAL IMAGING SYSTEM FOR THE  
DEVELOPMENT OF HIGH-TEMPERATURE ELECTRONIC MATERIALS, JUN  
1963.  
BY RICHARDSON D L DDC NUMBER 415046  
INSTRUMENT AF 19C604>08445  
PROJ/TASK 461746170

AFCL 63 197  
GHANA U COLL LEGON  
EQUATORIAL STUDY OF IRREGULARITIES IN THE IONOSPHERE, 1  
MAR 1963.  
BY CLEMENSA R D DDC NUMBER 410083  
KENT G S INSTRUMENT AF 61C052>00421  
KOSTER J R PROJ/TASK 563156313  
WRIGHT R W H

AFCL 63 198  
NORWEGIAN DEFENSE RESEARCH ESTABLISHMENT KJELLER NORWAY  
A STUDY OF IONOSPHERIC IRREGULARITIES, 10 MAR 1963.  
BY AGER H DDC NUMBER 410543  
CHRISTENSEN P INSTRUMENT AF 61C052>00500  
WAGROES T PROJ/TASK 563156313

AFCL 63 199A  
RAYTHEON CO WAYLAND MASS  
INVESTIGATION OF MICROWAVE COUPLING AND ENERGY PARTITION  
AND TRANSPORT WITHIN A PLASMA, VOL 1, JUN 1963.  
INSTRUMENT AF 19C604>07339  
PROJ/TASK 461946191  
PROJ/TASK 5661

AFRL 63 1999  
RAYTHEON CO WAYLAND MASS  
INVESTIGATION OF MICROWAVE COUPLING AND ENERGY PARTITION  
AND TRANSPORT WITHIN A PLASMA. VOL 11, JUN 1963.  
INSTRUMENT AF 19C604D07339  
PROJ/TASK 461966191  
PROJ/TASK 5561

AFRL 63 200  
HARVARD U CAMBRIDGE MASS  
CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE NO.  
19, 1946, JAN 1963.  
BY MENZEL D H  
JONES F S  
DDC NUMBER 400740  
INSTRUMENT AF 19C604D04962  
PROJ/TASK 764976490

AFRL 63 201  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
DISPERSION OF RAYLEIGH WAVES ALONG THE MID-ATLANTIC RIDGE,  
JAN 1963.  
BY OSKING H A  
DDC NUMBER 401381  
PROJ/TASK 7639

AFRL 63 202  
TEXAS U AUSTIN  
OPERATION AND PERFORMANCE OF THE CEDAR HILL METEOROLOGICAL  
TOWER FACILITY, 31 DEC 1962.  
BY MITCHAM W S  
GERHARDT J R  
DDC NUMBER 297242  
INSTRUMENT AF 19C604D05556  
PROJ/TASK 765576551

AFRL 63 203  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
A SIMPLIFIED SINE ANEMOMETER FOR MEASURING THE VERTICAL  
COMPONENT OF WIND VELOCITY, JAN 1963.  
BY KATHAL J C  
DDC NUMBER 402177  
PROJ/TASK 7655

AFRL 63 204  
NEW YORK U NEW YORK  
MAGNETO-HYDRODYNAMICS, DEC 1962.  
DDC NUMBER 298642  
INSTRUMENT AF 19C604D06144  
PROJ/TASK 860086004

AFRL 63 205  
HARVARD U CAMBRIDGE MASS  
CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE NO.  
19, 1947, JAN 1963.  
BY MENZEL D H  
JONES F S  
DDC NUMBER 400740  
INSTRUMENT AF 19C604D04962  
PROJ/TASK 764976490

AFRL 63 206  
NORTHEASTERN U BOSTON MASS  
EXPERIMENTAL INVESTIGATION FOR THE MEASUREMENT OF PARTICLE  
DAMAGE TO SURFACES OF SPACE VEHICLES, 31 DEC 1962.  
BY OPPENHEIM R R  
NARDONE L J  
DDC NUMBER 299011  
INSTRUMENT AF 19C604D07311  
PROJ/TASK 7667 01

AFRL 63 207  
ALASKA U COLLEGE  
EARTH CURRENTS AT THE AURORAL ZONE, DEC 1962.  
BY HICKLER V P  
HAFAGE R R  
DDC NUMBER 299995  
INSTRUMENT AF 19C604D09075  
PROJ/TASK 860186011

AFRL 63 208  
TEXAS INSTRUMENTS INC DALLAS  
TERRAIN QUANTIFICATION, PHASE 1, SURFACE GEOMETRY  
MEASUREMENTS, 31 DEC 1961.  
BY CABR D D  
VAN LOPIK J R  
DDC NUMBER 297492  
INSTRUMENT AF 19C628D00481  
PROJ/TASK 7628 05

AFRL 63 209  
JOHNS HOPKINS U BALTIMORE MD  
RESEARCH IN ATMOSPHERIC MECHANICS, DEC 1962.  
BY BENTON G S  
DDC NUMBER 297132  
INSTRUMENT AF 19C604D06147  
PROJ/TASK 860486043

AFRL 63 210  
GEOPHYSICS CORP OF AMERICA REDFORD MASS  
COMPUTATION OF ATMOSPHERIC COMPOSITION CHANGES, INWARD  
RADIATION, AND EVALUATION OF BACKGROUND FLUCTUATIONS ON  
SYSTEMS COS, 14 DEC 1962. SECRET-RESTRICTED DATA.  
BY DEGGES T C  
CARPENTER F O-P  
INSTRUMENT AF 19C628D00219

AFRL 63 211  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
EVALUATION OF MODIFICATION TO ANTENNA OF RAWIN SET  
AN/GMD-2, JAN 1963.  
BY POCS K  
PROJ/TASK 6682

AFRL 63 212  
OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
ELECTRON IMPACT STUDY OF NITROGEN, DEC 1962.  
BY LASKER F M  
GLASER F M  
DDC NUMBER 296810  
INSTRUMENT AF 19C604D04541  
PROJ/TASK 763576351

AFRL 63 213  
AVCO CORP WILMINGTON MASS  
IMMEDIATE SOLAR-FLARE EFFECTS, 26 MAR 1961 TO 26 NOV 1962,  
11 FEB 1963.  
BY SWIFT D W  
BOHRER W G  
DDC NUMBER 296192  
INSTRUMENT AF 19C604D08058  
PROJ/TASK 7200

AFRL 63 214  
MARTIN MARITTA CORP RIAS INC BALTIMORE MD  
NEUTRON MEASUREMENTS OUTSIDE THE EARTH-S ATMOSPHERE, JAN  
1963.  
BY WITTEN L  
MARTIN J P  
DDC NUMBER 297511  
INSTRUMENT AF 19C604D07244  
PROJ/TASK 17649797

AFRL 63 215  
PENNSYLVANIA STATE U UNIVERSITY PARK  
PERTURBATION METHODS APPLIED TO THE REFLECTION OF RADIO  
WAVES FROM THE IONOSPHERE, 1 FEB 1963.  
BY NORMAN P W  
DDC NUMBER 297419  
INSTRUMENT AF 19C604D04563  
PROJ/TASK 8605 01

AFRL 63 216  
TEMPLE U PHILADELPHIA PA  
VOLTAGE MEASUREMENTS IN THE PRESENCE OF STRONG FIELDS, 15  
DEC 1962.  
BY MOSES K G  
KORNFELT Y  
DDC NUMBER 298276  
INSTRUMENT AF 19C628D00215  
PROJ/TASK 860886086

AFRL 63 218  
COLUMBIA U NEW YORK N Y  
MANTLE SHEAR WAVE VELOCITIES DETERMINED FROM OCEANIC LOVE  
AND RAYLEIGH WAVE VELOCITIES, DEC 1962.  
BY GEOPHYS RES 67 13 1962  
BY SVETS L  
LANDISMAN M  
DDC NUMBER 403920  
INSTRUMENT AF 19C604D07376  
PROJ/TASK 865286522

AFRL 63 219  
COLUMBIA U NEW YORK N Y  
NUMERICAL INVERSION OF SEISMIC SURFACE WAVE DISPERSION  
DATA AND CRUST-MANTLE STRUCTURE IN THE NEW YORK-  
PENNSYLVANIA AREA, DEC 1962.  
BY GEOPHYS RES 67 13 1962  
BY NORMAN J  
DDC NUMBER 403921  
INSTRUMENT AF 19C604D07376  
PROJ/TASK 865286522

AFRL 63 220  
HARVARD U CAMBRIDGE MASS  
THE THEORY OF ATMOSPHERIC SEEING, FEB 1963.  
BY MENZEL D H  
INSTRUMENT AF 19C604D04962  
PROJ/TASK 764976490

AFRL 63 221  
CORNELL AERONAUTICAL LAB INC BUFFALO N Y  
EXPERIMENT LINEARIZATION, 17 JAN 1963.  
BY VON RIEP M A  
DDC NUMBER 299089  
INSTRUMENT AF 19C604D08842  
PROJ/TASK 8651

AFRL 63 222  
WASHINGTON U SEATTLE  
APPLICATION OF RADAR DATA TO PROBLEMS IN SYNOPTIC  
METEOROLOGY, DEC 1962.  
BY REED R J  
KREITZBERG C W  
DDC NUMBER 298616  
INSTRUMENT AF 19C604D05192  
PROJ/TASK 864186414

AFRL 63 223  
STANFORD RESEARCH INST MENLO PARK CALIF  
THE USE OF SYNOPTIC SCALE WEATHER RADAR OBSERVATIONS IN  
THE INTERPRETATION OF SATELLITE CLOUD OBSERVATIONS, DEC  
1962.  
BY NAGLE R F  
LIGDA M G H  
BLACKMER R W JR  
DDC NUMBER 298113  
INSTRUMENT AF 19C628D00284  
PROJ/TASK 669866982

AFRL 63 224  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
RADIO ASTRONOMY - A SURVEY, JAN 1963.  
BY BARBER A W  
MULLEN J P  
DDC NUMBER 402109  
PROJ/TASK 5629

AFRL 63 225  
ARKANSAS U FAYETTEVILLE  
SPECTROSCOPIC STUDIES WITH ION BEAMS, SEP 1962.  
BY HUGHES R M  
PHILPOT J L  
DODD J G  
LIN S  
DDC NUMBER 401058  
INSTRUMENT AF 19C604D04966  
PROJ/TASK 766176614

AFRL 63 226  
LAR CENTRALE DES INDUSTRIES ELECTRIQUES PARIS FRANCE  
PHOTO-MAGNETO-ELECTRIC EFFECT IN GRADED-GAP SEMICONDUCTORS  
1 APR 1960 TO 30 APR 1962.  
BY FORTINI A  
DDC NUMBER 298647  
INSTRUMENT AF 61C052D00408  
PROJ/TASK 669266921

AFRL 63 227  
HEBRON U JERUSALEM ISRAEL  
THE GROUND STATE SPLITTING AND OPTICAL SPECTRA OF  
CONFIGURATION IN CUPIC CRYSTALLING FIELDS, SEP 1962.  
BY LOW W  
ROSENGARTEN G  
DDC NUMBER 298626  
INSTRUMENT AF 61C052D00549  
PROJ/TASK 6696 01

AFRL 63 228  
UDDEVALA U SWEDEN  
DIFFERENT TYPES OF MUSICAL ATMOSPHERICS AND THEIR  
RELATIONS TO LIGHTNING DISCHARGES, 1962.  
BY KNINDEN F  
NORINDER M  
DDC NUMBER 404953  
INSTRUMENT AF 61C052D00007  
PROJ/TASK 766176613

AFRL 63 229  
LONDON U BEDFORD COLL ENGLAND  
NUMERICAL RESULTS, 25 OCT 1962.  
BY KENDALL P C  
DDC NUMBER 298909  
INSTRUMENT AF 61<052>-0041-61  
PROJ/TASK 763576360

AFRL 63 230  
WEIZMAN INST OF SCIENCE REHOVOTH ISRAEL  
TEMPERATURE DEPENDENCE OF PRESSURE-INDUCED SHIFTS OF HCL  
LINES DUE TO KENON, OCT 1962.  
BY JAFFE J H  
LANDAU A  
RHM-RF1VFV A  
DDC NUMBER 404952  
INSTRUMENT AF 61<052>00388  
PROJ/TASK 860386033

AFRL 63 231  
WEIZMAN INST OF SCIENCE REHOVOTH ISRAEL  
PRESSURE-INDUCED SHIFTS OF INFRARED LINES DUE TO POLAR  
MOLECULES, OCT 1962.  
BY DYLLER F K  
MIRSHFIELD M A  
JAFFE J H  
DDC NUMBER 298728  
INSTRUMENT AF 61<052>00388  
PROJ/TASK 860386033

AFRL 63 232  
WEIZMAN INST OF SCIENCE REHOVOTH ISRAEL  
THE STRENGTH OF THE  $V_2$  VIBRATION OF  $H_2O$ , OCT 1962.  
BY JAFFE J H  
BENEDICT W S  
DDC NUMBER 298648  
INSTRUMENT AF 61<052>00388  
PROJ/TASK 860386033

AFRL 63 233  
LIEGF U BELGIUM  
MIE SCATTERING FUNCTIONS FOR SPHERICAL PARTICLES OF  
REFRACTIVE INDEX  $m=1.25$ , 30 NOV 1962.  
BY REMY-BARRIAU L  
DDC NUMBER 298255  
INSTRUMENT AF 61<052>00587  
PROJ/TASK 860586055

AFRL 63 234  
BLOCK ASSOC INC CAMBRIDGE MASS  
DEVELOPMENT OF A ROCKET-BORNE INFRARED SPECTROMETER  
EMPLOYING THE PRINCIPLES OF MCKEY INTERFEROMETRY, 16 JAN  
1963.  
BY YOUNG N D  
MERTA L  
ARMITAGE J  
DDC NUMBER 402605  
INSTRUMENT AF 19<604>05738  
PROJ/TASK 490449045

AFRL 63 235  
HAWAII U HONOLULU  
SOME ASPECTS OF THE METEOROLOGY OF THE TROPICAL PACIFIC  
VIEWED FROM AN ATOLL, JAN 1963.  
BY LAVOIE R L  
DDC NUMBER 402142  
INSTRUMENT AF 19<604>07229  
PROJ/TASK 8641 15

AFRL 63 236  
DURHAM U ENGLAND  
MEASUREMENT OF LOW ELECTRIC FIELDS UNDER UPPER ATMOSPHERE  
CONDITIONS, NOV 1962.  
BY CHALMERS J A  
HUTCHINSON W C A  
WILDMAN J L  
EDWARDS M G  
DDC NUMBER 418211  
INSTRUMENT AF 61<052>00278  
PROJ/TASK 861786171  
PROJ/TASK 767376733

AFRL 63 237  
TECHNISCHE HOCHSCHULE DARMSTADT WEST GERMANY  
ON THE EULYERIAN AND LAGRANGEAN STATISTICS OF VERY LARGE-  
SCALE ATMOSPHERIC MOTIONS, 31 AUG 1962.  
BY WIDPERMAN F  
GAURCIK P  
KLUG W  
DDC NUMBER 298253  
INSTRUMENT AF 61<052>00366  
PROJ/TASK 860486043

AFRL 63 238  
CALIFORNIA U LOS ANGELES  
INSTABILITY OF STRATIFIED SHEAR FLOW, MAR 1963.  
BY HOLMROF J  
DDC NUMBER 400567  
INSTRUMENT AF 19<604>07999  
PROJ/TASK 862886280

AFRL 63 239  
QUEEN'S U BELFAST NORTHERN IRELAND  
THE HYDROXYL BANDS IN THE NIGHTGLOW.  
BY FERGUSON A F  
PARKINSON D  
DDC NUMBER 298627  
INSTRUMENT AF-EOAR -0118-62  
PROJ/TASK 7673

AFRL 63 240  
HARVARD U CAMBRIDGE MASS  
THE BRIGHTNESS OF THE SKY IN THE VICINITY OF THE SUN, MAR  
1963.  
BY MENZEL D H  
SEN H K  
DDC NUMBER 403103  
INSTRUMENT AF 19<604>04962  
PROJ/TASK 764976490

AFRL 63 241  
CALIFORNIA U BERKELEY  
STOCHASTIC MODELS FOR THE INTERPRETATION OF METEOROLOGICAL  
DATA.  
BY DAVID F N  
DDC NUMBER 401682  
INSTRUMENT AF 19<604>08051  
PROJ/TASK 862486242

AFRL 63 242  
NEW HAMPSHIRE U DURHAM  
VARIATIONS IN THE COSMIC-RAY NUCLEONIC INTENSITY.  
BY LOCKWOOD J A  
DDC NUMBER 299292  
INSTRUMENT AF 19<604>04552  
PROJ/TASK 8600 03

AFRL 63 243  
GENERAL DYNAMICS CORP ASTRONAUTICS SAN DIEGO CALIF  
AUTOMATIC DATA PROCESSING OF WEATHER SATELLITE DATA, 31  
JAN 1963.  
BY MARGGRAF W A  
DDC NUMBER 404740  
INSTRUMENT AF 19<604>08861  
PROJ/TASK 669866981

AFRL 63 244  
TEXAS A AND M RESEARCH FOUNDATION COLLEGE STATION  
THE TEXAS DEW POINT FRONT AS SEEN BY TIROS I, 1 FEB 1963.  
BY HENRY W K  
THOMPSON A H  
DDC NUMBER 404877  
INSTRUMENT AF 19<604>08450  
PROJ/TASK 669866982

AFRL 63 245  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
PRELIMINARY RESULTS OF DENSITY MEASUREMENTS FROM AN AIR  
FORCE SATELLITE, FEB 1963.  
BY MCISSAC J  
POND H  
STERGIS C  
DDC NUMBER 407980  
PROJ/TASK 6690

AFRL 63 246  
LITTLE ARTHUR D INC CAMBRIDGE MASS  
DEVELOPMENT OF AN EXPLOSIVE SYSTEM FOR ACCELERATING A  
METAL PELLET, 30 JAN 1963.  
BY SYKES W G  
VRABLIK F A  
DDC NUMBER 297980  
INSTRUMENT AF 19<604>07480  
PROJ/TASK 766776671

AFRL 63 247  
ALLIED RESEARCH ASSOC INC CONCORD MASS  
SYNOPTIC INTERPRETATIONS AND HEAT BALANCE DETERMINATION  
FROM TIROS II RADIATION DATA, 4 JAN 1963.  
BY WEXLER R  
DDC NUMBER 299962  
INSTRUMENT AF 19<628>00429  
PROJ/TASK 6698 03

AFRL 63 248  
GENERAL DYNAMICS CORP ASTRONAUTICS SAN DIEGO CALIF  
MISSILE RADIATION IN THE LAUNCH PHASE <U>, 31 DEC 1962.  
SECRET.  
DDC NUMBER 335086  
INSTRUMENT AF 19<604>05554  
PROJ/TASK 4784

AFRL 63 249  
BLOCK ASSOC INC CAMBRIDGE MASS  
RESEARCH AND DEVELOPMENT OF NEW TECHNIQUES AND EQUIPMENT  
FOR ROCKET-BORNE SPECTRORADIOMETRIC SYSTEMS, 9 JAN 1963.  
BY DANA F K  
CELINAS R C  
JONES C W  
MERTZ L  
PERSKY V  
WUNTJES G  
YOUNG N D  
DDC NUMBER 404879  
INSTRUMENT AF 19<604>08016  
PROJ/TASK 4904

AFRL 63 250  
COLUMBIA U NEW YORK N Y  
THE SEISMIC MOTION OF THE DEEP OCEAN FLOOR, 1 APR 1961 TO  
31 DEC 1961.  
BY PRENTISS D D  
EWING J I  
DDC NUMBER 407902  
INSTRUMENT AF 19<604>08357  
PROJ/TASK 865286523

AFRL 63 251  
PUERTO RICO U MAYAGUEZ  
ADDITIONAL DATA ON THE DETERMINATION OF IONOSPHERIC DRIFTS  
AND TURBULENCE FROM RADIO FADING RECORDS, JUL 1962.  
BY WIEWALL M JR  
INSTRUMENT AF 19<604>02036  
PROJ/TASK 766376633  
PROJ/TASK 8605 01

AFRL 63 252  
GEORGIA INST OF TECH ATLANTA  
STUDY OF NATURAL ULTRAVIOLET BACKGROUNDS AT HIGH ALTITUDE,  
DEC 1962.  
BY EDWARDS L H D  
RHODES F  
KURTS D  
DDC NUMBER 298992  
INSTRUMENT AF 19<604>08840  
PROJ/TASK 490449040

AFRL 63 253  
COLUMBIA U NEW YORK N Y  
GLACIAL AND POST GLACIAL QUICK CLAYS, 6 FEB 1963.  
BY KFRP P F  
LIEBLING R S  
DDC NUMBER 414488  
INSTRUMENT AF 19<604>08387  
PROJ/TASK 762876298

AFRL 63 254  
BLOCK ASSOC INC CAMBRIDGE MASS  
DESIGN HISTORY AND THEORY OF OPERATION OF A TWO-CHANNEL,  
ROCKET-BORNE FRETT GRATING SPECTROMETER, 9 JAN 1963.  
BY PERSKY M J  
DANA F K  
WYNTJES G  
DDC NUMBER 402611  
INSTRUMENT AF 19<604>05738  
PROJ/TASK 490449045

AFRL 63 255  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
RADIO ASTRONOMICAL STUDIES, MAR 1963.  
BY AARONS J  
WHITNEY H  
DDC NUMBER 403636  
PROJ/TASK 5629

AFRL 63 256  
PENNSYLVANIA STATE U UNIVERSITY PARK  
LOW FREQUENCY SWEEP GROUP HEIGHT AND POLARIZATION RECORDS,  
15 FEB 1963.  
BY HARDY J D  
INSTRUMENT AF 19<604>08012  
PROJ/TASK 8605 01

AFRL 63 257  
LONDON U IMPERIAL COLL OF SCIENCE AND TECH ENGLAND  
CUMULONIMBUS CONVECTION IN SHEAR, NOV 1962.  
BY GREEN J S A  
PFARCE R P  
DDC NUMBER 298951  
INSTRUMENT AF 61<052>00254  
PROJ/TASK 862086204

AFCL 63 258  
RHODE ISLAND U KINGSTON  
RAYLEIGH WAVE TRANSMISSION ON ELASTIC WEDGES, JAN 1963.  
BY KANE J  
SPENCE K  
DDC NUMBER 404261  
INSTRUMENT AF 19<628>00319  
PROJ/TASK 8100

AFCL 63 259  
ORSERVATOIRE DE PARIS MEUDON FRANCE  
UNDAMPED WAVES IN A COLLISION FREE ELECTRON PLASMA, 10 JUL 1962.  
BY MCLEAN D  
INSTRUMENT AF 61<052>00432  
PROJ/TASK 860886088

AFCL 63 260  
MAX-PLANCK-INST FUR CHEMIE MAINZ WEST GERMANY  
TRITIUM DETERMINATIONS IN ATMOSPHERIC GASES AND METEORITES  
1 NOV 1961 TO 31 OCT 1962.  
BY BEGEMAN F  
DDC NUMBER 298974  
INSTRUMENT AF 61<052>00465  
PROJ/TASK 769076901

AFCL 63 261  
WEIZMAN INST OF SCIENCE REHOVOTH ISRAEL  
STUDIES IN TERRESTRIAL SPECTROSCOPY, 3 JAN 1963.  
BY PEKERIS C L  
ALTERMAN Z  
JAROSCH H  
DDC NUMBER 298649  
INSTRUMENT AF 61<052>00509  
PROJ/TASK 865286525

AFCL 63 262  
TENNESSEE U KNOXVILLE  
THE DEPENDENCE OF ON-LINE BREADTH OF THE SPECTRAL LINE R  
<4> OF HYDROGEN FLUORIDE, MAR 1963.  
BY HARDT H A  
DDC NUMBER 403784  
INSTRUMENT AF 19<604>07981  
PROJ/TASK 7670 02

AFCL 63 280  
NEW YORK U NEW YORK  
AN IMPROVED MINIMUM PRINCIPLE FOR SINGLE CHANNEL  
SCATTERING.  
BY HAHN Y  
OMALLEY T F  
SPRUCH L  
DDC NUMBER 414672  
INSTRUMENT AF 19<604>04555  
PROJ/TASK 7635 07

AFCL 63 281  
NEW YORK U NEW YORK  
EXTRAPOLATION OF ELECTRON - RARE GAS ATOM GROSS SECTIONS  
TO ZERO ENERGY.  
BY OMALLEY T F  
DDC NUMBER 413107  
INSTRUMENT AF 19<604>04555  
PROJ/TASK 7635 07

AFCL 63 282  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
MAGNETIC TAPE COPIES OF MIT GEOPHYSICS PROGRAM SFT I  
TIME SERIES PROGRAMS FOR THE IBM 709, 7090, 30 DEC 1962.  
BY SIMPSON S M JR  
DDC NUMBER 299069  
INSTRUMENT AF 19<604>07378  
PROJ/TASK 8652 03

AFCL 63 283  
WEIZMAN INST OF SCIENCE REHOVOTH ISRAEL  
THE STRENGTHS OF ADSORPTION LINES IN THE 2-0 BAND OF  
CARBON MONOXIDE, DEC 1962.  
BY OPPENHEIM U P  
GOLDRING H  
DDC NUMBER 404042  
INSTRUMENT AF 61<052>00388  
PROJ/TASK 8603 03

AFCL 63 284  
TECHNISCHE HOCHSCHULE DARMSTADT WEST GERMANY  
SOME PROBLEMS OF ATMOSPHERIC DIFFUSION ON VERY LARGE SCALE  
31 OCT 1962.  
BY MFSINGER F  
DDC NUMBER 402328  
INSTRUMENT AF 61<052>00366  
PROJ/TASK 860486043

AFCL 63 285  
PENNSYLVANIA STATE U UNIVERSITY PARK  
THEORETICAL DETERMINATION OF THE IMPEDANCE CHARACTERISTICS  
OF A CAPACITIVE IONOSPHERE ROCKET PROBE, 1 MAR 1963.  
BY HERMAN J R  
DDC NUMBER 403135  
INSTRUMENT AF 19<604>08012  
PROJ/TASK 7663 01

AFCL 63 286  
COLUMBIA U NEW YORK N Y  
SURFACE-WAVE STUDIES OF THE PACIFIC CRUST AND MANTLE.  
GEOPHYS MONOGRAPH 6 1962  
BY EWING M  
BRUNE J  
KUD J  
DDC NUMBER 403902  
INSTRUMENT AF 19<604>07376  
PROJ/TASK 865286522

AFCL 63 287  
COLUMBIA U NEW YORK N Y  
A TRANSIENT TECHNIQUE FOR SEISMOGRAPH CALIBRATION.  
BULL SEISMOL SOC AM 52 4 767-779 OCT 1962  
BY ESPINOSA A F  
SUTTON G H  
MILLER H J  
DDC NUMBER 403910  
INSTRUMENT AF 19<604>07376  
INSTRUMENT AF 19<604>08375  
PROJ/TASK 865286522

AFCL 63 288  
BAIRD ATOMIC INC CAMBRIDGE MASS  
RESEARCH IN INFRARED INTERFEROMETRY AND OPTICAL MASERS,  
21 FEB 1963.  
BY BILLINGS B  
DDC NUMBER 400736  
INSTRUMENT AF 19<604>02264  
PROJ/TASK 767076703

AFCL 63 289  
PENNSYLVANIA STATE U UNIVERSITY PARK  
THE COMPOSITION AND STRUCTURE OF THE TERRESTRIAL  
ATMOSPHERE, 15 MAY 1963.  
BY NICOLET M  
DDC NUMBER 299992  
INSTRUMENT AF 19<604>04563  
PROJ/TASK 8605 01  
PROJ/TASK 8605 02  
PROJ/TASK 8653

AFCL 63 290  
PENNSYLVANIA STATE U UNIVERSITY PARK  
AN IMPROVED LOW FREQUENCY SWEEP POLARIMETER, 1 APR 1963.  
BY WEISBROD S  
FERRARO A J  
DDC NUMBER 401674  
INSTRUMENT AF 19<604>08012  
PROJ/TASK 8605 01

AFCL 63 291  
PENNSYLVANIA STATE U UNIVERSITY PARK  
ELECTROMAGNETIC NONLINEAR INTERACTION AND REFLECTION FROM  
A PLANE IONIZED MEDIUM, 15 APR 1963.  
BY RYDBECK O F H  
DDC NUMBER 299981  
INSTRUMENT AF 19<604>04563  
PROJ/TASK 8605 01  
PROJ/TASK 8605 02  
PROJ/TASK 8653

AFCL 63 292  
COLUMBIA U NEW YORK N Y  
CONCURRENT STORMS OF LONG AND ULTRALONG PERIOD MICROSEISMS  
BULL SEISMOL SOC AM 53 1 15-26 JAN 1963  
BY OLIVER J  
PAGE R  
DDC NUMBER 403906  
INSTRUMENT AF 19<604>07376  
PROJ/TASK 865286522

AFCL 63 293  
COLUMBIA U NEW YORK N Y  
LONG PERIOD SEISMIC WAVES FROM LARGE, NEAR-SURFACE NUCLEAR  
EXPLOSIONS.  
BULL SEISMOL SOC AM 53 1 109-149 JAN 1963  
BY POMEROY P W  
DDC NUMBER 403904  
INSTRUMENT AF 19<604>07376  
PROJ/TASK 865286522

AFCL 63 294  
COLUMBIA U NEW YORK N Y  
SEISMIC WAVES AND EARTH STRUCTURE IN THE CANADIAN SHIELD.  
BULL SEISMOL SOC AM 53 1 167-210 JAN 1963  
BY BRUNE J  
DORMAN J  
DDC NUMBER 407265  
INSTRUMENT AF 19<604>07376  
PROJ/TASK 865286522

AFCL 63 295  
MICHIGAN U ANN ARBOR  
A NOTE ON THE EFFECT OF RIPPLE FIRING ON THE SPECTRA OF  
QUARRY SHOTS, JAN 1963.  
BULL SEISMOL SOC AM 53 1 79-85 JAN 1963  
BY WILLIS D E  
DDC NUMBER 405004  
INSTRUMENT AF 19<604>06642  
PROJ/TASK 763976396

AFCL 63 296  
MICHIGAN U ANN ARBOR  
EFFECT OF DELAYS ON THE SPECTRA OF RIPPLE-FIRED SHOTS.  
BY POLLACK H N  
DDC NUMBER 408471  
INSTRUMENT AF 19<604>06642  
PROJ/TASK 763976396

AFCL 63 297  
GEOPHYSICS CORP OF AMERICA BEDFORD MASS  
NOTE ON EQUATIONS FOR COMPUTING NUMBER DENSITY RATIOS FROM  
TEMPERATURE PROFILES, FEB 1963.  
BY PETERSON L R  
MINZNER R A  
HARRISON R H  
DDC NUMBER 299463  
INSTRUMENT AF 19<628>01633  
PROJ/TASK 767376731

AFCL 63 298  
GEOPHYSICS CORP OF AMERICA BEDFORD MASS  
A POLYNOMIAL FIT TO THE DEFINING POINTS FOR MEAN MOLECULAR  
WEIGHT IN THE 1962 U.S. STANDARD ATMOSPHERE, FEB 1963.  
BY PETERSON L R  
MINZNER R A  
DDC NUMBER 299462  
INSTRUMENT AF 19<628>01633  
PROJ/TASK 767376731

AFCL 63 299  
STANFORD RESEARCH INST MENLO PARK CALIF  
CONSIDERATIONS OF CLIMATOLOGICAL APPLICATIONS OF  
VERTICALLY POINTING WEATHER RADAR OBSERVATIONS, FEB 1963.  
BY BLACKMER R H  
LIGDA M G H  
DDC NUMBER 404043  
INSTRUMENT AF 19<604>07312  
PROJ/TASK 862486242

AFCL 63 300  
TEXAS INSTRUMENTS INC DALLAS  
A STUDY OF THE FEASIBILITY OF MULTIPLEXING TELETYPE DATA  
INTO NONSPEECH TIME OF VOCODED SPEECH TRANSMISSION, 18 JUN 1963.  
BY ZIEMER D R  
DDC NUMBER 418177  
INSTRUMENT AF 19<628>00345  
PROJ/TASK 4610 02

AFCL 63 301A  
TEXAS INSTRUMENTS INC DALLAS  
FULL-DUPLEX DIGITAL VOCODER, 10 JUN 1963.  
BY YAGGI L A JR  
INSTRUMENT AF 19<628>00302  
PROJ/TASK 4610 02

AFCL 63 301B  
TEXAS INSTRUMENTS INC DALLAS  
MANUAL FOR POLYMODAL VOCODER, AUG 1963.  
INSTRUMENT AF 19<628>00302  
PROJ/TASK 4610 02

AFCL 63 302  
GIANNINI SCIENTIFIC CORP SANTA ANA CALIF  
THEORETICAL AND EXPERIMENTAL INVESTIGATION LEADING TO  
DESIGN AND CONSTRUCTION OF A BROADBAND LINE SOURCE  
ILLUMINATOR, JUN 1963.  
BY LOVE A W  
INSTRUMENT AF 19<604>08385  
PROJ/TASK 4442 02

AFCL 63 304  
AMERICAN OPTICAL CO SOUTHRIDGE MASS  
CHARACTERISTICS OF DIELECTRIC WAVEGUIDE MODES, JUL 1963.  
BY LUNERBERG J  
SNITZER F  
INSTRUMENT AF 19<604>07207  
PROJ/TASK 4600 03

APCRL 63 305  
ALASKA U COLLEGE  
MAGNETIC, FERROIC CURRENT, AND VLF OBSERVATIONS DURING  
THE FISH ROWL TPSTS OF 1967, JAN 1963.  
BY MAYHEW K R DDC NUMBER 417651  
WESCOTT P W INSTRUMENT AF 19<604>06180  
PROJ/TASK 8653

APCRL 63 306  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
PERTURBATION OF VOWEL ARTICULATIONS BY CONSONANTAL CONTEXT  
AN ACOUSTICAL STUDY.  
J SPEECH HEARING 6 2 JUN 1963  
BY STEVENS K N DDC NUMBER 417620  
HOUSE A S INSTRUMENT AF 19<604>06102  
PROJ/TASK 4610 02

APCRL 63 307  
CMU ASSOC LITTLETON MASS  
VOLUMETRIC FIXED APERTURE RADAR SCANNING ANTENNAS, 25 JUN  
1963.  
DDC NUMBER 418363  
INSTRUMENT AF 19<604>04994  
PROJ/TASK 4600 07

APCRL 63 308  
RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER  
PRINCETON N J  
THE TOPOGRAPHY AND GROWTH MECHANISM OF SILICON OVERGROWTHS  
30 JUN 1963.  
BY RVEZ A G DDC NUMBER 417627  
EVANS R J INSTRUMENT AF 19<604>08040  
PROJ/TASK 5632

APCRL 63 309  
INTERNATIONAL TELEPHONE AND TELEGRAPH CORP NUTLEY N J  
HALL AND RESISTIVITY MEASUREMENTS ON SEMICONDUCTING  
DIAMONDS, JUL 1963.  
BY SCHELMORN R L DDC NUMBER 417627  
MORRIS H G INSTRUMENT AF 19<628>00725  
PROJ/TASK 5621 04

APCRL 63 310  
GENERAL ELECTRIC CO SANTA BARBARA CALIF  
INVESTIGATION OF NUCLEAR DETONATIONS ON PROPAGATION OF  
ELECTROMAGNETIC WAVES, JUN 1963.  
BY MALINOWSKI L P DDC NUMBER 417627  
KAMP W S INSTRUMENT AF 19<628>00207  
ROGUSCH P L  
MCKEE J W  
ROYLE S R

APCRL 63 311  
CASE INST OF TECH CLEVELAND OHIO  
MATRIX DESCRIPTION OF WAVEGUIDE DISCONTINUITIES IN THE  
PRESENCE OF EVANESCENT MODES, JUL 1963.  
BY HASKAL H DDC NUMBER 414664  
INSTRUMENT AF 19<628>01099  
PROJ/TASK 5635 02

APCRL 63 312  
L'AM DE PHYSIQUE PARIS FRANCE  
EFFECTS OF PROTON IRRADIATION ON THE PROPERTIES OF SILICON  
25 APR 1963.  
BY LALLMAND P DDC NUMBER 413309  
PISTER J C INSTRUMENT AF 61<052>00543  
AUTHIER A PROJ/TASK 5620 02

APCRL 63 313  
NORTHEASTERN U BOSTON MASS  
MAXIMUM-LIKELIHOOD DETECTION IN A BINARY CHANNEL WITH  
MEMORY, JUL 1963.  
BY GONSALVES R A DDC NUMBER 417181  
LOH W M INSTRUMENT AF 19<604>07494  
PROJ/TASK 4610 03

APCRL 63 314  
TYCO LABS INC WALTHAM MASS  
THE TRAVELLING SOLVENT METHOD OF CRYSTAL GROWTH, JUL 1963.  
BY WEINSTEIN M DDC NUMBER 415923  
WRIGHT M A INSTRUMENT AF 19<604>08803  
GRIFFITHS L R PROJ/TASK 4608 04  
MLAVSKY A I

APCRL 63 315  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
EXPLANATORY NOTES ON THE USE OF SINGULAR INTEGRAL  
EQUATIONS IN THE SOLUTION OF WAVEGUIDE DISCONTINUITY  
PROBLEMS, 26 JUN 1963.  
BY LEVIN L DDC NUMBER 417181  
INSTRUMENT AF 19<614>07499  
PROJ/TASK 4600 04

APCRL 63 316  
TEXAS INSTRUMENTS INC DALLAS  
EFFICIENT UTILIZATION OF CHANNEL CAPACITY FOR SPEECH  
COMMUNICATION, JUL 1963.  
BY BRICKER R L DDC NUMBER 418174  
AITKEN A R INSTRUMENT AF 19<628>00345  
ZIEMER D R PROJ/TASK 4610 02

APCRL 63 317  
NEW YORK U NEW YORK  
SOME NETWORK PROPERTIES OF THE LARGE AREA PN JUNCTION,  
JUL 1963.  
BY HERSKOWITZ G J DDC NUMBER 412845  
INSTRUMENT AF 19<628>00379  
PROJ/TASK 5628 01

APCRL 63 318  
BROWN U PROVIDENCE R I  
ON THE SCATTERING OF ELECTROMAGNETIC WAVES BY A DIELECTRIC  
CYLINDER, DEC 1962.  
BY STREIFER W DDC NUMBER 418708  
KODIS R D INSTRUMENT AF 19<628>02498  
PROJ/TASK 5635 02

APCRL 63 319  
PURDUE RESEARCH FOUNDATION LAFAYETTE IND  
THE SCATTERING OF ELECTROMAGNETIC WAVES BY PERFECTLY  
REFLECTING OBJECTS OF COMPLEX SHAPE, JAN 1963.  
BY SCHULTZ F V DDC NUMBER 417620  
ROLLF D M INSTRUMENT AF 19<604>04051  
SCHINDLER J K PROJ/TASK 5635 02

APCRL 63 320  
CALIFORNIA U BERKELEY  
ANODE STRUCTURES FOR COLD-CATHODE HIGH-POWER MAGNETRON,  
30 JUN 1962.  
BY TREDA Y DDC NUMBER 417620  
INSTRUMENT AF 19<628>00324  
PROJ/TASK 5634 02

APCRL 63 321  
SYLVANIA ELECTRIC PRODUCTS INC WALTHAM MASS  
CYCLIC CODES - SUMMARY REPORT.  
BY MATTSON H F JR DDC NUMBER 417620  
INSTRUMENT AF 19<604>08516  
PROJ/TASK 5628 01

APCRL 63 322  
BRANDIS U WALTHAM MASS  
THEORETICAL STUDIES OF IONIZED GASES.  
BY GROSS F P DDC NUMBER 417620  
INSTRUMENT AF 19<604>04543  
PROJ/TASK 46146191

APCRL 63 323  
GENERAL ELECTRIC CO SCHENECTADY N Y  
SEMICONDUCTOR DEVICE CONCEPTS, 28 JUN 1963.  
DDC NUMBER 416396  
INSTRUMENT AF 19<628>00329  
PROJ/TASK 4608 04

APCRL 63 324  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS DATA SCIENCES LAB  
L G HANSCOM FIELD MASS  
MINIORIZATION PROCEDURES IN PHONOLOGY, JUN 1963.  
BY PETRIK S R DDC NUMBER 415328  
INSTRUMENT AF 19<628>00518  
PROJ/TASK 5632 05

APCRL 63 325  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
SOLID STATE SCIENCES LAB L G HANSCOM FIELD MASS  
ON DETERMINATION OF THE OPTICAL ABSORPTION COEFFICIENT,  
JUN 1963.  
BY KAHAN A DDC NUMBER 415441  
LIPSON H G PROJ/TASK 5621 04

APCRL 63 326  
L'AM NATIONAL D-ESSAIS PARIS FRANCE  
FAR INFRARED SPECTRA OF CRYSTALS AND SOLIDS IN A LARGE  
RANGE OF TEMPERATURES, 31 MAY 1963.  
BY LECOMTE J DDC NUMBER 414528  
HADRI A INSTRUMENT AF 61<052>00518  
PROJ/TASK 5634 03

APCRL 63 327  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
MICROWAVE PHYSICS LAB L G HANSCOM FIELD MASS  
STUDY OF MAGNETOELASTIC INTERACTIONS BY PARALLEL PUMPING,  
AUG 1963.  
J APPL PHYS 34 4<2> APR 1963  
BY OLSON F A DDC NUMBER 417381  
PROJ/TASK 4600

APCRL 63 329  
NEW YORK U NEW YORK  
THE EFFECTS OF NETWORK SHAPING AND LOADING ON THE  
TRANSIENT AND FREQUENCY RESPONSE OF DISTRIBUTED RC  
NETWORKS, AUG 1963.  
BY GHAUSI M S DDC NUMBER 417181  
HERSKOWITZ G J INSTRUMENT AF 19<628>00379  
PROJ/TASK 5628 01

APCRL 63 330  
NEW YORK U NEW YORK  
CUMULATIVE DECISION TECHNIQUES FOR ERROR-FREE  
COMMUNICATION SYSTEMS, 15 JUL 1963.  
BY METZNER J J DDC NUMBER 417230  
MORGAN K C INSTRUMENT AF 19<604>06168  
PROJ/TASK 4610 03

APCRL 63 331  
RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER  
PRINCETON N J  
INTEGRATED LOGIC NETS, 16 JUL 1963.  
BY HOFSTEIN S R DDC NUMBER 419174  
HEJMAN F D INSTRUMENT AF 19<604>08836  
PROJ/TASK 4641 04

APCRL 63 332  
ELECTRONIC COMMUNICATIONS INC TIMONIUM MD  
WIDE BAND LUNAR RELAY COMMUNICATIONS, 16 MAY 1963.  
BY WATERS W M DDC NUMBER 417230  
WHEEL J O INSTRUMENT AF 19<628>00398  
SHERMAN J W PROJ/TASK 4600 02

APCRL 63 333  
MOTOROLA INC PHOENIX ARIZ  
RESEARCH AND DEVELOPMENT FOR SURFACE PROTECTION FOR  
SILICON DEVICES.  
BY FLASCHMAN S S DDC NUMBER 417230  
COOPER M W INSTRUMENT AF 19<604>08358  
EVITTS M C PROJ/TASK 5621  
HALL M A  
LAMPF J

APCRL 63 334  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
DISPERSION RELATIONS IN TIME-SPACE PERIODIC MEDIA. PART I.  
STABLE INTERACTIONS, 11 FEB 1963.  
BY CASSEY F S DDC NUMBER 417230  
OLINDER A A INSTRUMENT AF 19<604>07499  
PROJ/TASK 4600 04

AFRL 63 336  
 HP ASSOC PALO ALTO CALIF  
 INVESTIGATION OF HOT ELECTRON EMITTER, 1 MAR TO 31 MAY 1963.  
 BY ATALLA M W DDC NUMBER 415755  
 SORHFA R W INSTRUMENT AF 19C628>01637  
 LUCAS R C PROJ/TASK 4608 04  
 RFD D A  
 DOULFER V W

AFRL 63 337  
 STANFORD RESEARCH INST MENLO PARK CALIF  
 F-I-O-N-W-I-T-I <TITLE IS CONFIDENTIAL>, SECRET.  
 BY DOLPHIN L T JR INSTRUMENT AF 19C628>00205  
 MITCHIC C G JR

AFRL 63 338  
 ROYAL INST OF TECH STOCKHOLM SWEDEN  
 QUARTERLY PROGRESS AND STATUS REPORT, 15 APR 1963.  
 INSTRUMENT AF-EQAR -0055-62  
 PROJ/TASK 4610 02

AFRL 63 339  
 CORNELL AERONAUTICAL LAB INC BUFFALO N Y  
 ANALYTICAL AND EXPERIMENTAL STUDY OF THE IONIZED FLOW  
 FIELD ABOUT A HEMISPHERE CYLINDER AND ITS EFFECT ON THE  
 RADIATION PATTERN OF A SLOT ANTENNA, AUG 1963.  
 BY CURTIS J T INSTRUMENT AF 19C604>08494  
 BURFF A F PROJ/TASK 4662 02  
 HAYMAN R A

AFRL 63 340  
 NEW YORK U NEW YORK  
 ON THE EXACT SOLUTIONS OF THE NONUNIFORM DISTRIBUTED  
 LINES, AUG 1963.  
 BY MAISEL R DDC NUMBER 417177  
 INSTRUMENT AF 19C628>00379  
 PROJ/TASK 5628 01

AFRL 63 343  
 BROWN U PROVIDENCE R I  
 A MICROWAVE INVESTIGATION OF SELF-QUENCHING CYLINDRICAL  
 DISCHARGES AT LOW PRESSURES, JUN 1963.  
 BY CARON P R INSTRUMENT AF 19C628>02498  
 RODIS R D PROJ/TASK 5635 02

AFRL 63 344  
 BROWN U PROVIDENCE R I  
 DIFFRACTION BY COMPOSITE CYLINDERS, JUN 1963.  
 BY AKCOGLU M A INSTRUMENT AF 19C628>02498  
 RODIS R D PROJ/TASK 5635 02

AFRL 63 345  
 SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
 DYADIC GREEN'S FUNCTION FOR A RADIALLY INHOMOGENEOUS  
 SPHERICAL MEDIUM, MAY 1963.  
 BY YEH C W H INSTRUMENT AF 19C604>08195  
 PROJ/TASK 4642 02

AFRL 63 346  
 SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
 THE DIFFRACTION OF SCALAR WAVES BY PENETRABLE DISCS, JUN  
 1963.  
 BY YEH C W H INSTRUMENT AF 19C604>08195  
 PROJ/TASK 4642 02

AFRL 63 348  
 NEW YORK U NEW YORK  
 DIFFRACTION AT HIGH FREQUENCIES BY A CIRCULAR DISC, JUL  
 1963.  
 BY JONES D S INSTRUMENT AF 19C604>05238  
 PROJ/TASK 5635 02

AFRL 63 349  
 MOTOROLA INC PHOENIX ARIZ  
 EPITAXIAL CONTROL SYSTEM, 14 DEC 1962.  
 BY JACKSON D M JR INSTRUMENT AF 19C604>08351  
 PROJ/TASK 5621

AFRL 63 350  
 MOTOROLA INC PHOENIX ARIZ  
 EPITAXIAL CONTROL SYSTEM, 14 JUN 1963.  
 BY JACKSON D M JR INSTRUMENT AF 19C604>08351  
 PROJ/TASK 5621

AFRL 63 351  
 WASHINGTON U SEATTLE  
 A CLASS OF PERIODIC STRUCTURES EXCITED BY APERIODIC  
 SOURCES, JUN 1963.  
 BY SIGELMAN R A INSTRUMENT AF 19C628>02763  
 ISHIMARU A PROJ/TASK 5635 02

AFRL 63 352  
 ROYAL INST OF TECH STOCKHOLM SWEDEN  
 QUARTERLY PROGRESS AND STATUS REPORT, 15 JUL 1962.  
 INSTRUMENT AF-EQAR -0055-63  
 PROJ/TASK 4610 02

AFRL 63 353  
 MITTELBERG W INNERBRUCK AUSTRIA  
 MODELING STUDIES, 1 JUL 1963.  
 BY NESSLER N DDC NUMBER 418336  
 INSTRUMENT AF 61C052>00490  
 PROJ/TASK 4610 01

AFRL 63 354  
 HARVARD U CAMBRIDGE MASS  
 A STUDY OF SOLID-SOLID PHASE EQUILIBRIUM BOUNDARIES AT  
 HIGH PRESSURES AND TEMPERATURES, 30 AUG 1963.  
 BY REIL P W DDC NUMBER 418024  
 INSTRUMENT AF 19C604>08131  
 PROJ/TASK 5621 01

AFRL 63 355  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
 MICROWAVE PHYSICS LAB L G HANSCOM FIELD MASS  
 THEORETICAL AND EXPERIMENTAL INVESTIGATION OF  
 BACKSCATTERING FROM A CAVITY-LOADED MONOPOLE, AUG 1963.  
 BY GIBBS W W PROJ/TASK 5635 03  
 FARRIS W I

AFRL 63 356  
 COMPAGNIE GENERALE DE TELEGRAPHIE SANS FIL PARIS FRANCE  
 SPACE DIVERSITY RECEPTION IN TROPOSPHERIC SCATTER FIELD  
 MEASUREMENTS, 15 JUN 1963.  
 BY RIGGI V INSTRUMENT AF 61C052>00442  
 PROJ/TASK 460146033

AFRL 63 357  
 COMPAGNIE GENERALE DE TELEGRAPHIE SANS FIL PARIS FRANCE  
 COUPLED MODE PROPAGATION RADIATION STRUCTURES, 1 MAY TO 31  
 DEC 1962.  
 BY SPITZ F INSTRUMENT AF 61C052>00625  
 FRAVFIN-BEQUENHARD J PROJ/TASK 5635 01

AFRL 63 358  
 SILENIA S P A ROME ITALY  
 MICROWAVE DETERMINATIONS OF AFTERGLOW TEMPERATURES AND  
 ELECTRON COLLISION PARAMETERS IN NITROGEN AND OXYGEN, 31  
 MAY 1963.  
 BY CILARDINI A DDC NUMBER 418360  
 INSTRUMENT AF 61C052>00039  
 PROJ/TASK 56356330

AFRL 63 359  
 DENMARK TECHNICAL U COPENHAGEN  
 FRESNEL ZONES FOR GROUND-BASED ANTENNAS, APR 1963.  
 BY ANDERSEN J R DDC NUMBER 418334  
 INSTRUMENT AF 61C052>00503  
 PROJ/TASK 5635 02

AFRL 63 360  
 OXFORD U ENGLAND  
 POINT CHARGE CALCULATIONS OF ENERGY LEVELS OF MAGNETIC  
 IONS IN CRYSTALLINE ELECTRIC FIELDS, MAR 1963.  
 BY HUTCHINGS M T DDC NUMBER 418501  
 INSTRUMENT AF 61C052>00125  
 PROJ/TASK 5621 04

AFRL 63 361  
 OXFORD U ENGLAND  
 INVESTIGATIONS INTO THE ORIGIN OF CRYSTALLINE ELECTRIC  
 FIELD EFFECTS ON RARE EARTH IONS. II. CONTRIBUTIONS FROM  
 THE RARE EARTH ORBITALS, 31 MAR 1963.  
 BY RAY D K DDC NUMBER 418502  
 INSTRUMENT AF 61C052>00125  
 PROJ/TASK 5621 04

AFRL 63 362  
 LAB OF PHYSIQUE PARIS FRANCE  
 RESEARCH ON RADIATION FIELDS ASSOCIATED WITH WHISTLERS,  
 30 SEP 1962.  
 BY DELLOUE J DDC NUMBER 418350  
 GARNIER M INSTRUMENT AF 61C052>00427  
 ALLSTADIN D PROJ/TASK 563156311

AFRL 63 363  
 INTERNATIONAL BUSINESS MACHINES CORP YORKTOWN HEIGHTS N Y  
 LOW TEMPERATURE VAPOR GROWTH STUDIES, 1 JUL 1963.  
 BY REISMAN A INSTRUMENT AF 19C628>02468  
 PROJ/TASK 4608 04

AFRL 63 364  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
 MICROWAVE PHYSICS LAB L G HANSCOM FIELD MASS  
 NONLINEAR OSCILLATIONS AND ELECTROENCEPHALOGRAPHY,  
 BY DEWAN F M PROJ/TASK 5635 01

AFRL 63 365  
 WOLF RESEARCH AND DEVELOPMENT CORP WEST CONCORD MASS  
 AN ON-LINE SUB-PROGRAM FOR THE DETERMINATION OF EIGEN-  
 VALUES AND EIGEN-VECTORS WITH GRAPHIC CONVERGENCE  
 MONITORING FEATURES, 26 JUL 1963.  
 BY WALTER C M DDC NUMBER 418366  
 GAGAN R INSTRUMENT AF 19C628>01614  
 SPITZER J PROJ/TASK 4648 05  
 WISOWATY M

AFRL 63 366  
 HARVARD U CAMBRIDGE MASS  
 INFORMATION STORAGE AND RETRIEVAL, JUN 1963.  
 BY SALTON G INSTRUMENT AF 19C604>08309  
 PROJ/TASK 5632  
 PROJ/TASK 5633

AFRL 63 370  
 GEO-SCIENCE INC CAMBRIDGE MASS  
 RESISTIVITY INVESTIGATION ON CAPE COD, SEP 1963.  
 BY CANTWELL T INSTRUMENT AF 19C628>02351  
 NELSON P PROJ/TASK 4600 08

AFRL 63 372  
 GENERAL TELEPHONE AND ELECTRONICS LABS INC RAYSIDE N Y  
 STUDY OF ADSORPTION OF GASES ON SOLIDS IN THE HIGH VACUUM  
 RANGE, 31 AUG 1963.  
 BY RILVEN C M INSTRUMENT AF 19C628>00311  
 FIORIO J V PROJ/TASK 5634 05

AFRL 63 373  
 RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER  
 PRINCETON N J  
 EVAPORATED THIN-FILM DEVICES, 10 SEP 1963.  
 BY BORDAN M DDC NUMBER 418366  
 SHALICROSS F V INSTRUMENT AF 19C628>01617  
 WARMAN A PROJ/TASK 4608 04  
 WEINER D



APCRL 63 376  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS DATA SCIENCES LAB  
L G HANSCOM FIELD MASS  
TABULATION OF THE PROBABILITY OF DETECTION AND CORRECT  
DECISION AMONG M ALTERNATIVES FOR PHASE-INCOHERENT  
RECEPTION, SEP 1963.  
BY SHMIDMAN D  
PROJ/TASK 9628

APCRL 63 377  
BROWN U PROVIDENCE R I  
PLASMA ELECTRON TEMPERATURE IN A STRONG INHOMOGENEOUS  
ELECTRIC FIELD, JUN 1963.  
BY CRONSON H W  
WITZEL L  
INSTRUMENT AF 19(628)02498  
PROJ/TASK 9635 02

APCRL 63 378  
HYLPTONICS CORP BURLINGTON MASS  
MICROWAVE STUDIES OF SEMICONDUCTING DIAMONDS, JUN 1963.  
BY SIRVEY F M  
INSTRUMENT AF 19(628)00454  
PROJ/TASK 9621 04

APCRL 63 379  
SYLVANIA ELECTRIC PRODUCTS INC MOUNTAIN VIEW CALIF  
DESIGN AND DEVELOPMENT OF A PHOTOMIXING DEVICE, 9 AUG 1963  
BY CADDES D F  
INSTRUMENT AF 19(628)01671  
PROJ/TASK 4645 02

APCRL 63 382  
BITTERLICH W INNSBRUCK AUSTRIA  
ATTENUATION IN SUBSURFACE SIGNAL TRANSMISSION, 15 JUL 1963  
BY SCOTTI M  
STEINACKER I  
INSTRUMENT AF 61(052)00490  
PROJ/TASK 4610 01

APCRL 63 383  
BITTERLICH W INNSBRUCK AUSTRIA  
DETERMINATION OF ROCK CONDUCTIVITY FROM VLF PROPAGATION  
MEASUREMENTS, 15 JUL 1963.  
BY HONNDEL R  
INSTRUMENT AF 61(052)00490  
PROJ/TASK 4610 01

APCRL 63 384  
BITTERLICH W INNSBRUCK AUSTRIA  
HORIZONTAL MAGNETIC DIPOLE AT THE DEPTH M UNDER THE  
EARTH'S SURFACE. CALCULATION OF THE RADIATION FIELD BY THE  
INTEGRAL METHOD, 10 AUG 1963.  
BY TINKHOFF G  
INSTRUMENT AF 61(052)00490  
PROJ/TASK 4610 01

APCRL 63 385  
GFA-SCIENCE INC CAMBRIDGE MASS  
DEEP RESISTIVITY INVESTIGATION IN NORTHERN NEW YORK STATE,  
SEP 1963.  
BY CANTWELL T  
NELSON P  
INSTRUMENT AF 19(628)02351  
PROJ/TASK 4600 08

APCRL 63 386  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
SOLID STATE SCIENCES LAB L G HANSCOM FIELD MASS  
THE OMEGATRON VERSUS A SECTOR-TYPE MASS SPECTROMETER FOR  
RESIDUAL GAS STUDIES, OCT 1963.  
BY BLOOM J M  
LUDINGTON C F  
PHIPPS R L  
PROJ/TASK 9634 05

APCRL 63 387  
OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
CALCULATION OF THE ECHO AREA OF AN N-LAYER PLASMA CYLINDER  
AND SPHERE, MAY 1963.  
BY KAWANO T  
PETERS L JR  
INSTRUMENT AF 19(604)07270  
PROJ/TASK 5633 06

APCRL 63 389  
RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER  
PRINCETON N J  
INVESTIGATION OF CARRIER INJECTION ELECTROLUMINESCENCE,  
15 AUG 1963.  
BY FISCHER A G  
PONGER W M  
MOSS H I  
PETERSON R L  
DONAHUE D  
INSTRUMENT AF 19(604)08018  
PROJ/TASK 4608 04

APCRL 63 400  
STANFORD RESEARCH INST MENLO PARK CALIF  
CLOUD RESEARCH DATA, FEB 1963.  
BY SFRERRENY S M  
BLACKNER R W JR  
DDC NUMBER 40407  
INSTRUMENT AF 19(604)07312  
PROJ/TASK 862486242

APCRL 63 401  
DURHAM U ENGLAND  
VARIATIONS OF THE SEA LEVEL MOON FLUX, 20 JAN 1963.  
BY ASHTON F  
PATTISON J R M  
WOLFFENDALE A W  
DDC NUMBER 401765  
INSTRUMENT AF 61(052)00027  
PROJ/TASK 860086002

APCRL 63 402  
STANFORD RESEARCH INST MENLO PARK CALIF  
RADAR PRECIPITATION ECHO AND SATELLITE CLOUD OBSERVATIONS  
OF A MARITIME CYCLONE.  
BY NAGLE R F  
SFRERRENY S M  
INSTRUMENT AF 19(604)05982  
PROJ/TASK 869866982

APCRL 63 403  
OSLO U NORWAY  
RESEARCH IN THE FIELD OF SOLAR RADIO NOISE AND SUNSPOTS,  
31 JAN 1963.  
BY ROSSEFLAND S  
DDC NUMBER 400240  
INSTRUMENT AF 61(052)00186  
PROJ/TASK 7644 04

APCRL 63 404  
FRANKFURT U WEST GERMANY  
THE CONCENTRATION OF CHEMICAL TRACES IN GLACIER-ICE, PART  
I, FURTHER INVESTIGATIONS ON TROPOSPHERIC WASHOUT, PART  
II, DEC 1962.  
BY GEORGII H-W  
WFRER G  
DDC NUMBER 400249  
INSTRUMENT AF 61(052) 00249  
PROJ/TASK 7630 03

APCRL 63 405  
MANCHESTER U ENGLAND  
THE DEVELOPMENT AND DESIGN OF A POLARIMETER FOR LUNAR  
STUDIES, NOV 1962.  
BY CLARKE D  
DDC NUMBER 400568  
INSTRUMENT AF 61(052)00378  
PROJ/TASK 8602 01

APCRL 63 406  
MANCHESTER U ENGLAND  
RESEARCH INTO METHODS OF DETERMINING THE RELATIVE HEIGHTS  
OF PHYSIOGRAPHIC FEATURES OF THE MOON, NOV 1962.  
BY KOPAL Z  
DDC NUMBER 402495  
INSTRUMENT AF 61(052)00524  
PROJ/TASK 7600 06  
PROJ/TASK 8654 01

APCRL 63 407  
GENERAL MILLS INC ST PAUL MINN  
A STUDY OF HIGH ALTITUDE WATER VAPOR DETECTORS, 31 MAR  
1963.  
BY ROHRBAUGH S  
DDC NUMBER 400360  
INSTRUMENT AF 19(628)00483  
PROJ/TASK 86826820

APCRL 63 408  
SASKATCHEWAN U SASKATOON CANADA  
LITHIUM TWILIGHT AT SASKATOON 1960-61.  
DDC NUMBER 414110  
INSTRUMENT AF 19(604)07265  
PROJ/TASK 766176612

APCRL 63 409  
SASKATCHEWAN U SASKATOON CANADA  
RAPID MEASUREMENT OF N<sub>2</sub><sup>+</sup> ROTATIONAL TEMPERATURES IN AURORA  
1962.  
BY HJATEN D M  
RAWSON F G  
WALKER J R  
DDC NUMBER 413079  
INSTRUMENT AF 19(604)07265  
PROJ/TASK 766176612

APCRL 63 410  
SASKATCHEWAN U SASKATOON CANADA  
HIGH ABUNDANCE OF TWILIGHT LITHIUM NOVEMBER 1962, FEB 1963  
BY GAULT W A  
HJATEN D M  
INSTRUMENT AF 19(604)07265  
PROJ/TASK 766176612

APCRL 63 411  
HARVARD U CAMBRIDGE MASS  
THE HALF LIFE OF THE METASTABLE LEVEL 4<sup>3</sup>Σ OF THE NITROGEN  
MOLECULE.  
ADVAN MOL SPECTRY  
BY BILLS D G  
CARLETON N P  
OLDENBERG O  
INSTRUMENT AF 19(604)04984  
PROJ/TASK 767376733

APCRL 63 412  
HARVARD U CAMBRIDGE MASS  
THE RELATION OF THE RECENT ATMOSPHERIC DUST MEASUREMENTS  
OF VOLZ AND GOODY TO THE PROBLEM OF METEORIC INFLUX.  
J ATMOSPHERIC SCI 19 5 424-426 SEP 1962  
BY CARLETON N P  
INSTRUMENT AF 19(628)00318  
PROJ/TASK 766176614

APCRL 63 413  
STANFORD RESEARCH INST MENLO PARK CALIF  
A METEOROLOGICAL STUDY OF CLOUD CLOUDS AS RELATED TO  
SATELLITE INFERRED HORIZON SENSITIVITY, FEB 1963.  
BY ALDER J F  
DDC NUMBER 407974  
INSTRUMENT AF 19(628)01681  
PROJ/TASK 8624 01

APCRL 63 414  
COLUMBIA U NEW YORK N Y  
BASIC STUDY OF THE OSCILLATION OF A HOMOGENEOUS ELASTIC  
SPHERE (IV), NOV 1962.  
BY SATO Y  
USAMI T  
FURING M  
DDC NUMBER 407133  
INSTRUMENT AF 19(604)07376  
PROJ/TASK 865286522

APCRL 63 415  
WASHINGTON U SEATTLE  
THE INVESTIGATION OF SOME TECHNIQUES FOR MEASUREMENT OF  
HUMIDITY AT HIGH ALTITUDES, MAR 1963.  
BY CHARLSON R J  
RUFFNER K J K  
DDC NUMBER 404874  
INSTRUMENT AF 19(628)00103  
PROJ/TASK 8620 02

APCRL 63 416  
COLORADO U BOULDER  
RADIO ASTRONOMICAL AND SATELLITE STUDIES OF THE ATMOSPHERE  
1963.  
BY WARWICK J W  
DDC NUMBER 413366  
INSTRUMENT AF 19(628)00224  
PROJ/TASK 5623 02

APCRL 63 417  
COLORADO U BOULDER  
DYNAMIC SPECTRA OF JUPITER'S DECAMETRIC EMISSIONS, 1961.  
ASTROPHYS J 137 1 JAN 1963  
BY WARWICK J W  
DDC NUMBER 415314  
INSTRUMENT AF 19(628)00224  
PROJ/TASK 5623 02

AFCL 63 418  
TEXAS A AND M RESEARCH FOUNDATION COLLEGE STATION  
FORECASTING ATMOSPHERIC BOUNDARY LAYER PARAMETERS CEDAR  
HILLS, FEB 1963.  
BY CLAYTON W H  
DDC NUMBER 403649  
INSTRUMENT AF 19<604>06200  
PROJ/TASK 7655 01

AFCL 63 419  
BRANDEIS U WALTHAM MASS  
THE EFFECT OF THE SURFACE LAYER OF A STAR UPON BLACK BODY  
RADIATION EMERGING FROM THE INTERIOR, 1 MAR 1963.  
BY TIROFF M  
INSTRUMENT AF 19<604>07283  
PROJ/TASK 8608 05

AFCL 63 420  
COLORADO U BOULDER  
CORONAL IONIZATION BY TWO-STEP COLLISION PROCESSES.  
ASTROPHYS J 137 1 JAN 1963  
BY ATHAY R G  
HYDEN C L  
DDC NUMBER 413365  
INSTRUMENT AF 19<604>02140  
PROJ/TASK 764976494

AFCL 63 421  
COLORADO U BOULDER  
IONIZATION AND EXCITATION EQUILIBRIUM OF CA II IN THE  
SOLAR ATMOSPHERE.  
ASTROPHYS J 136 1 JUL 1962  
BY ATHAY R G  
ZIRKER J R  
DDC NUMBER 413367  
INSTRUMENT AF 19<604>02140  
PROJ/TASK 764976494

AFCL 63 422  
COLORADO U BOULDER  
LIQUID INSTABILITY AND ENERGY TRANSFORMATION NEAR A  
MAGNETIC NEUTRAL LINE, A SOLUBLE NONLINEAR HYDROMAGNETIC  
PROBLEM.  
PROC ROY SOC LONDON 271 435-448 1963  
BY CHAPMAN S  
KENDALL P C  
DDC NUMBER 415312  
INSTRUMENT AF 19<604>02140  
PROJ/TASK 764976494

AFCL 63 423  
COLORADO U BOULDER  
IONIZATION ABOVE THE F2-PEAK AS AFFECTED BY THE  
INTERPLANETARY GAS.  
GEOFIS PURA ADPL 51 147-154 1962  
BY CHAPMAN S  
INSTRUMENT AF 19<604>02140  
PROJ/TASK 764976494

AFCL 63 424  
COLORADO U BOULDER  
ALEXANDER VON HUMBOLDT AND GEOMAGNETIC SCIENCE.  
ARCH HIST EXACT SCI 2 1 41-51 1962  
BY CHAPMAN S  
DDC NUMBER 415313  
INSTRUMENT AF 19<604>02140  
PROJ/TASK 764976494

AFCL 63 425  
COLORADO U BOULDER  
LARGE-SCALE AURORAL MOTIONS AND POLAR MAGNETIC  
DISTURBANCES III - THE AURORA AND MAGNETIC STORM OF 11  
FEBRUARY 1958.  
J ATMOSPHERIC TERREST PHYS 24 785-796 1962  
BY AKASOFU S I  
CHAPMAN S  
DDC NUMBER 415311  
INSTRUMENT AF 19<604>02140  
PROJ/TASK 764976494

AFCL 63 426  
RETINA FOUNDATION BOSTON MASS  
STUDIES OF CERTAIN BIOLOGICALLY IMPORTANT POLYANION-  
ORGANIC CATION COMPLEXES AS ENERGY TRANSFER SYSTEMS, 31  
OCT 1962.  
BY BALAZS F A  
SCHEUFFELE D S  
DDC NUMBER 403805  
INSTRUMENT AF 19<604>08476  
PROJ/TASK 4769

AFCL 63 427  
COLORADO U BOULDER  
WIND AND PRESSURE OSCILLATIONS IN THE UPPER ATMOSPHERE.  
ARCH METEOROL GEOPHYS BIOKLIMATOL  
BY HAURWITZ R  
DDC NUMBER 415309

AFCL 63 428  
COLORADO U BOULDER  
OZONE AND SUNSPOTS.  
J GEOPHYS RES 68 3 FEB 1963  
BY LONDON J  
HAURWITZ M W  
DDC NUMBER 415310  
INSTRUMENT AF 19<604>05488  
PROJ/TASK 860486044

AFCL 63 429  
FLORIDA STATE U TALLAHASSEE  
THE KINETIC-ENERGY BUDGET OF THE STRATOSPHERE OVER NORTH  
AMERICA DURING THE WARMING OF 1957, 15 APR 1963.  
BY LATEOF M A  
DDC NUMBER 403471  
INSTRUMENT AF 19<628>00394  
PROJ/TASK 8604 05

AFCL 63 430  
WEIZMAN INST OF SCIENCE REHOVOTH ISRAEL  
THEORY OF PRESSURE-INDUCED SHIFTS OF INFRARED LINES, FEB  
1963.  
BY REUVEN A R  
FRIEDMANN H  
JAFFE J H  
DDC NUMBER 400319  
INSTRUMENT AF 61<052>00388  
PROJ/TASK 860386033

AFCL 63 431  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
CRUSTAL REFLECTION OF PLANE P AND SV WAVES, MAR 1963.  
BY HASKELL N A  
DDC NUMBER 413139  
PROJ/TASK 7639

AFCL 63 433  
TEXAS INSTRUMENTS INC DALLAS  
DIGITAL SEISMOGRAPH SYSTEM.  
BY WILLIAMS R M  
INSTRUMENT AF 19<628>00472  
PROJ/TASK 8652 05

AFCL 63 434  
CORNELL U ITHACA N Y  
CHARACTERISTICS OF TRACKABLE RADAR ANGELS, 16 JAN 1963.  
BY ROELOFS T R  
DDC NUMBER 408361  
INSTRUMENT AF 19<604>06160  
PROJ/TASK 862286222

AFCL 63 435  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
STUDIES OF THE STRATOSPHERIC GENERAL CIRCULATION, 30 NOV  
1962.  
BY STARR V P  
DDC NUMBER 405885  
INSTRUMENT AF 19<604>05223  
PROJ/TASK 8628 07

AFCL 63 436  
BOSTON COLL CHESTNUT HILL MASS  
RESEARCH DIRECTED TOWARD THE STUDY OF RAPID FLUCTUATIONS  
OF THE GEOMAGNETIC FIELD, 31 OCT 1962.  
BY LINEHAM D  
DDC NUMBER 404021  
INSTRUMENT AF 19<628>00211  
PROJ/TASK 8601 03

AFCL 63 437  
MCGILL U MONTREAL P Q CANADA  
CALIBRATION OF A FLYABLE MASS SPECTROMETER FOR N AND O  
ATOMS, MAR 1963.  
BY NARCISSE R S  
SCHIFF H I  
MORGAN J F  
COHEN H A  
DDC NUMBER 410104  
INSTRUMENT AF 19<604>08807  
PROJ/TASK 6687  
PROJ/TASK 7673 02

AFCL 63 438  
MINNESOTA U MINNEAPOLIS  
PROPERTIES OF VACUUM AND GAS DIODES, MAR 1963.  
BY OAKAM H J  
JOHNSON C R  
INSTRUMENT AF 19<604>08072  
PROJ/TASK 6694 09

AFCL 63 439  
BLOCK ASSOC INC CAMBRIDGE MASS  
ATMOSPHERIC INFRARED OPTICS - FLUX MEASUREMENTS, 29 MAR  
1963.  
BY PERSEY M J  
INSTRUMENT AF 19<628>00210  
PROJ/TASK 490449048

AFCL 63 440  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
ELECTRON DENSITY PROFILES OF WAVEMOTIONS IN THE IONOSPHERE  
CAUSED BY NUCLEAR DETONATIONS, APR 1963.  
BY GASSMAN G J  
PROJ/TASK 8653

AFCL 63 441  
CHICAGO U ILL  
BAND-HEAD WAVE LENGTH OF C<sub>2</sub>, C<sub>3</sub>, C<sub>4</sub>, C<sub>6</sub>, N<sub>2</sub>, N<sub>3</sub>, N<sub>4</sub>, O<sub>2</sub>, OH  
AND THEIR IONS, OCT 1962.  
ASTROPHYS J 7 68 165-290  
BY WALLACE L  
INSTRUMENT AF 19<604>03044  
PROJ/TASK 8605 04  
PROJ/TASK 7661 02

AFCL 63 442  
CHICAGO U ILL  
THEORY OF AURORAL BOMBARDMENT SUPPLEMENTARY REMARKS.  
ASTROPHYS J 136 2 1962  
BY CHAMBERLAIN J W  
INSTRUMENT AF 19<604>03044  
PROJ/TASK 7661 02  
PROJ/TASK 8605 04

AFCL 63 443  
MASSACHUSETTS U AMHERST  
FOLIAN GEOMORPHOLOGY, WIND DIRECTION, AND CLIMATIC CHANGE  
IN NORTH AFRICA, MAR 1963.  
BY SMITH H T U  
DDC NUMBER 405144  
INSTRUMENT AF 19<628>00298  
PROJ/TASK 7628 05

AFCL 63 444  
MOLECULON RESEARCH CORP CAMBRIDGE MASS  
RESEARCH ON BENZIMIDAZOLE DERIVATIVES, 31 MAR 1963.  
BY OBERMAYER A S  
NICHOLS L D  
NORCROSS R E  
BRED C F  
PANAR M  
DDC NUMBER 406224  
INSTRUMENT AF 19<628>00418  
PROJ/TASK 669266922

AFCL 63 445  
WOLF RESEARCH AND DEVELOPMENT CORP WEST CONCORD MASS  
OPTICAL GENERATOR PROGRAM, FEB 1963.  
BY MONRONEY R M  
KAHLER H R  
NIXON W T  
DDC NUMBER 404059  
INSTRUMENT AF 19<604>08065  
PROJ/TASK 7600 03

AFCL 63 446  
PENNSYLVANIA STATE U UNIVERSITY PARK  
DYNAMIC NONLINEAR ELECTROMAGNETIC WAVE PROPAGATION AND  
HARMONIC IN MAGNETO IONIC MEDIA, 1 JUN 1963.  
BY RYDBECK O F H  
DDC NUMBER 403136  
INSTRUMENT AF 19<604>04563  
PROJ/TASK 8605 02

AFCL 63 447  
PENNSYLVANIA STATE U UNIVERSITY PARK  
ROCKET INSTRUMENTATION FOR THE MEASUREMENT OF AC  
CONDUCTIVITY, WITH A CAPACITIVE PROBE, AND LONG WAVE  
PROPAGATION IN THE LOWER IONOSPHERE.  
BY SFLIGA T A DDC NUMBER 403442  
VOGT R W INSTRUMENT AF 19<604>08102  
PROJ/TASK 8605 01

AFCL 63 448  
OHIO STATE U COLUMBUS  
A 1400 MC MAP OF THE N31 REGION, MAR 1963.  
BY KRAUS J D DDC NUMBER 404581  
INSTRUMENT AF 19<604>04079  
PROJ/TASK 4643 02

AFCL 63 449  
MCGILL U MONTREAL P Q CANADA  
FIVE-DIMENSIONAL WEATHER RADAR - GREY SCALE AND CAPPI  
IN OPERATION, 1959-1962, APR 1963.  
BY MARSHALL J S DDC NUMBER 408970  
INSTRUMENT AF 19<604>06617  
PROJ/TASK 6672 01

AFCL 63 450  
GENERAL ELECTRIC CO SCHENECTADY N Y  
PERFORMANCE CHARACTERISTICS AND EMISSION COOLING  
MEASUREMENTS TAKEN ON A CS VAPOR THERMIONIC CONVERTER WITH  
A THORIUM-TUNGSTEN EMITTER, MAR 1963.  
BY HOUSTON J M DDC NUMBER 406131  
INSTRUMENT AF 19<604>08424  
PROJ/TASK 8659 02

AFCL 63 451  
GENERAL ELECTRIC CO SCHENECTADY N Y  
THERMIONIC EMISSION FROM METAL CRYSTALS IN ALKALI METAL  
VAPORS, MAR 1963.  
BY WEBSTER H F DDC NUMBER 406131  
READ P L INSTRUMENT AF 19<604>08424  
PROJ/TASK 8659 02

AFCL 63 452  
GENERAL ELECTRIC CO SCHENECTADY N Y  
SINGLE CRYSTAL THERMIONIC CONVERTER STUDIES, MAR 1963.  
BY WEBSTER H F DDC NUMBER 407826  
INSTRUMENT AF 19<604>08424  
PROJ/TASK 8659 02

AFCL 63 453  
GENERAL ELECTRIC CO SCHENECTADY N Y  
OPTIMUM DESIGN OF CYLINDRICAL ELECTRON BOMBARDMENT HEATERS  
MAR 1963.  
BY HOUSTON J M DDC NUMBER 407878  
HOWLETT T A INSTRUMENT AF 19<604>08424  
WEBSTER H F PROJ/TASK 8659 02

AFCL 63 454  
OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
MEASUREMENTS OF THE OPTICAL CONSTANTS OF MAGNESIUM OXIDE  
AND CALCIUM TUNGSTATE IN THE SPECTRAL REGION BETWEEN 10  
CM<sup>-1</sup> AND 100 CM<sup>-1</sup> AT 300° K AND 90° K, FEB 1963.  
BY ROUNTREE R F DDC NUMBER 403425  
INSTRUMENT AF 19<604>04119  
PROJ/TASK 860386033

AFCL 63 455  
HARVARD U CAMBRIDGE MASS  
AN EXPERIMENTAL INVESTIGATION ON THE BEHAVIOR OF THE  
DIPOLE ANTENNA NEAR THE INTERFACE BETWEEN THE CONDUCTING  
MEDIUM AND FREE SPACE, 18 JAN 1963.  
BY LISZKA L DDC NUMBER 412972  
INSTRUMENT AF 19<604>07262  
PROJ/TASK 766176615

AFCL 63 456  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
RESEARCH ON CHARACTERISTICS OF TRANSITION ELEMENTS IN  
SOLUTION. 1. STUDIES ON RHODIUM CHEMISTRY WITH A NOTE ON  
PALLADIUM. 2. STUDIES ON RUTHENIUM CHEMISTRY, FEB 1963.  
BY RRECKI-RIFDERMANN C DDC NUMBER 404521  
RRIITO F INSTRUMENT AF 61<052>00417  
LEWIS D C PROJ/TASK 669466941

AFCL 63 457  
LIEGF U BELGIUM  
PROCEEDINGS OF THE ELEVENTH INTERNATIONAL ASTROPHYSICAL  
SYMPOSIUM - PHYSICS OF PLANETS, LIEGE, BELGIUM, 9-12  
JUL 1962.  
DDC NUMBER 405842  
INSTRUMENT AF 61<052>00586  
PROJ/TASK 766176614

AFCL 63 458  
HARVARD U CAMBRIDGE MASS  
CLASSIFICATION OF SOLAR PROMINENCES FOR SUNSPOT CYCLE NO.  
19, 1958, APR 1963.  
BY MENZEL D H DDC NUMBER 409688  
JONES F S INSTRUMENT AF 19<604>04962  
PROJ/TASK 764976490

AFCL 63 459  
MANCHESTER U ENGLAND  
LUNAR INFRARED MEASUREMENTS, OCT 1962.  
BY STERNBERG R DDC NUMBER 402816  
INSTRUMENT AF 61<052>00400  
PROJ/TASK 860286020

AFCL 63 460  
KIRUNA GEOPHYSICAL OBSERVATORY SWEDEN  
A STUDY OF IONOSPHERIC IRREGULARITIES USING SATELLITE  
TRANSMISSION AT 54 MC/S, 29 DEC 1962.  
BY LISZKA L DDC NUMBER 403613  
INSTRUMENT AF 61<052>00601  
PROJ/TASK 4643

AFCL 63 461  
KIRUNA GEOPHYSICAL OBSERVATORY SWEDEN  
SATELLITE SCINTILLATION OBSERVED IN THE AURORAL ZONE, 29  
DEC 1962.  
BY LISZKA L DDC NUMBER 403614  
INSTRUMENT AF 61<052>00601  
PROJ/TASK 4643

AFCL 63 462  
KIRUNA GEOPHYSICAL OBSERVATORY SWEDEN  
NORTHERN LATITUDE PROPAGATION, 23 MAR 1963.  
BY LISZKA L DDC NUMBER 402303  
INSTRUMENT AF 61<052>00601  
PROJ/TASK 4443

AFCL 63 463  
GEOPHYSICAL SYSTEMS INC NEWTON MASS  
AN/GMD-2 WIND ERRORS FROM SALTON SEA TEST SERIES, APR 1963  
BY KELLY D P DDC NUMBER 405445  
BEAURIEN D J INSTRUMENT AF 19<628>01686  
PROJ/TASK 6682 01

AFCL 63 464  
AF DAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
L G HANSCOM FIELD MASS  
STUDIES IN RADIO ASTRONOMY AND SPACE PHYSICS, MAR 1963.  
BY AARONS J DDC NUMBER 412803  
PROJ/TASK 4643  
PROJ/TASK 5629

AFCL 63 465  
AF DAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
ELECTRON DENSITY IN AN ATLAS MISSILE TRAIL (U), APR 1963,  
SECRET.  
BY ULWICK J C DDC NUMBER 339264  
PISTER W

AFCL 63 466  
GEORGIA INST OF TECH ATLANTA  
ALUMINA DISPERSAL AT 150 KM ALTITUDE - AN ANALYSIS OF THE  
PHOTOGRAPHIC RECORD, FEB 1963.  
BY YOUNG L C DDC NUMBER 405025  
INSTRUMENT AF 19<604>05467  
PROJ/TASK 4984 01

AFCL 63 467  
COLOGNE U WEST GERMANY  
RESEARCH ON THE SYNOPTICAL MEASUREMENTS OF THE VERTICAL  
OZONE DISTRIBUTION, 1 JAN 1963.  
BY POETZOLD H K DDC NUMBER 403398  
INSTRUMENT AF 61<052>00330  
PROJ/TASK 863186311

AFCL 63 468  
HARVARD U CAMBRIDGE MASS  
CATALOG OF TYPE II <SLOW-DRIFT> AND TYPE IV <CONTINUUM>  
SOLAR RADIO BURSTS, MAY 1963.  
BY MAXWELL A DDC NUMBER 413308  
HUGHES M P INSTRUMENT AF 19<628>02370  
THOMPSON A R PROJ/TASK 7649 04

AFCL 63 469  
CALIFORNIA U BERKELEY  
MICROBIOLOGICAL WASTE CONVERSION IN CONTROL OF ISOLATED  
ENVIRONMENTS, 28 FEB 1963.  
BY GOLUEKE C G DDC NUMBER 413276  
BREWER J W INSTRUMENT AF 19<604>06637  
GEE H K PROJ/TASK 669466493  
OSWALD W J

AFCL 63 470  
HAWAII U HONOLULU  
THE HAWAII SOLAR FLARE PATROL, 11 APR 1963.  
BY STEIGER W R DDC NUMBER 412817  
INSTRUMENT AF 19<604>02292  
PROJ/TASK 764976494

AFCL 63 471  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
METEOR DATA BULLETIN NO. 8 JUN 1961  
DDC NUMBER 418320  
INSTRUMENT AF 61<052>00227  
PROJ/TASK 5630

AFCL 63 472  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
METEOR DATA BULLETIN NO. 9 JUL 1961  
DDC NUMBER 418317  
INSTRUMENT AF 61<052>00227  
PROJ/TASK 5630

AFCL 63 473  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
METEOR DATA BULLETIN NO. 10 SEP 1961  
DDC NUMBER 418318  
INSTRUMENT AF 61<052>00227  
PROJ/TASK 5630

AFCL 63 474  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
METEOR DATA BULLETIN NO. 11 DEC 1961  
DDC NUMBER 418319  
INSTRUMENT AF 61<052>00227  
PROJ/TASK 5630

AFCL 63 475  
KIRUNA GEOPHYSICAL OBSERVATORY SWEDEN  
AUDIO AND SURAUDIO-FREQUENCY ELECTROMAGNETIC RADIATION  
AT HIGH LATITUDE, 25 MAR 1963.  
BY EGGLAND A DDC NUMBER 404656  
OLSEN S INSTRUMENT AF 61<052>00600  
GUSTAFSSON G PROJ/TASK 5631 05

AFCL 63 476  
FLORIDA STATE U TALLAHASSEE  
A NOTE ON THE TRANSMISSIVITY OF AN ELSASSER BAND, 15 MAY 1963  
BY CRAIG R A DDC NUMBER 408317  
INSTRUMENT AF 19<628>00394  
PROJ/TASK 8604 05

AFCL 63 477  
NEW HAMPSHIRE U DURHAM  
ASYMETRIES IN THE FORBUSH DECREASES OF THE COSMIC RADIATION. PART I. DIFFERENCES IN ONSET TIME. PART II. SUPERIMPOSED INTENSITY VARIATIONS DURING A FORBUSH DECREASE.  
J GEOPHYS RES 68 6 MAR 1963  
BY LOCKWOOD J A DDC NUMBER 405289  
INSTRUMENT AF 19<628>02352  
PROJ/TASK 860086003  
RA7DAN H

AFCL 63 478  
NEW HAMPSHIRE U DURHAM  
INTENSITY-TIME VARIATIONS OF THE COSMIC RADIATION.  
AM J PHYS 30 1 10-15 JAN 1962  
BY LOCKWOOD J A DDC NUMBER 404924  
INSTRUMENT AF 19<604>04552  
PROJ/TASK 860086003

AFCL 63 479  
GENERAL GEOPHYSICAL CO HOUSTON TEX  
STUDY OF SEISMIC SIGNALS AND NOISE DETECTED BY A HURIED ARRAY, 15 APR 1963.  
RY PHILLIPS G C DDC NUMBER 412422  
INSTRUMENT AF 19<628>00341  
PROJ/TASK 8652 04  
CHANG SHENG WU  
WOODALL J C

AFCL 63 480  
MAX-PLANCK-INST FUR CHEMIE MAINZ WEST GERMANY  
THE TRITIUM CONTENT OF ATMOSPHERIC METHANE, 1963.  
EARTH SCI METEORITICS  
RY BEGMANN F DDC NUMBER 408724  
INSTRUMENT AF 61<052>00465  
PROJ/TASK 769076901

AFCL 63 481  
INSTRUMENT CORP OF FLORIDA MELBOURNE  
LOCATION AND DETERMINATION OF THE LOCATION OF THE ENTRANCE PUPIL <CENTER OF PROJECTION> OF PC-1000 CAMERA IN OBJECT SPACE.  
BY BROWN D C DDC NUMBER 410849  
INSTRUMENT AF 19<604>07279  
DAVIS R G DDC NUMBER 410849  
INSTRUMENT AF 19<604>07279  
PROJ/TASK 765576551  
PROJ/TASK 765576554

AFCL 63 482  
PENNSYLVANIA STATE U UNIVERSITY PARK  
WHISTLER MODE-IONIZED STREAM INTERACTIONS - PART I, 15 JUN 1963.  
BY RYDBECK O E H DDC NUMBER 414950  
INSTRUMENT AF 19<604>04563  
ASKNE J DDC NUMBER 414950  
INSTRUMENT AF 19<604>04563  
PROJ/TASK 8605 02

AFCL 63 483  
TEXAS U AUSTIN  
CONSIDERING FOREST VEGETATION AS AN IMPERFECT DIELECTRIC SLAB, 31 MAY 1963  
BY POUNDS D J DDC NUMBER 410836  
INSTRUMENT AF 19<604>08038  
LAGRONF A H DDC NUMBER 410836  
INSTRUMENT AF 19<604>08038  
PROJ/TASK 4603  
PROJ/TASK 767076703

AFCL 63 484  
ARIZONA STATE U FLAGSTAFF  
INFRARED ATMOSPHERIC STUDIES, MAY 1963.  
RY ADEL A DDC NUMBER 406913  
INSTRUMENT AF 19<628>00301

AFCL 63 485  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
L G HANSCOM FIELD MASS  
PARAMETRIC FORMULAS GEODESIC CURVES AND DISTANCES ON A SLIGHTLY OBLATE EARTH, APR 1963.  
BY LEWIS F A DDC NUMBER 412501  
PROJ/TASK 4662 05

AFCL 63 486  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
RADIATION PATTERN OF RAYLEIGH WAVES FROM A FAULT OF ARBITRARY DIP AND DIRECTION OF MOTION IN A HOMOGENEOUS MEDIUM, MAY 1963.  
RY HASKELL N A DDC NUMBER 407674  
PROJ/TASK 8652

AFCL 63 487  
HARVARD U CAMBRIDGE MASS  
APPROXIMATE INTEGRAL EQUATIONS FOR THE TEMPERATURE IN NON-GRAY MODEL ATMOSPHERES, MAY 1963.  
BY STONE P H DDC NUMBER 408305  
INSTRUMENT AF 19<604>04545  
PROJ/TASK 863586352

AFCL 63 488  
GEORGIA INST OF TECH ATLANTA  
STUDY OF PHOTOCHEMISTRY. PHYSICAL STATE AND MOTION OF THE UPPER ATMOSPHERE, MAR 1963.  
BY EDWARDS H D DDC NUMBER 408625  
INSTRUMENT AF 19<604>05467  
PROJ/TASK 4984 01

AFCL 63 490  
DENVER U COLO  
VARIATION OF THE INFRARED SOLAR SPECTRUM BETWEEN 2800 CM<sup>-1</sup> AND 5100 CM<sup>-1</sup> WITH ALTITUDE, 25 APR 1963  
BY MURCRAE D G DDC NUMBER 408625  
INSTRUMENT AF 19<604>07429  
WILLIAMS W J DDC NUMBER 408625  
INSTRUMENT AF 19<604>07429  
PROJ/TASK 8662

AFCL 63 491  
ASTRONOMY ELECTRIC PRODUCTS INC WALTHAM MASS  
A STUDY OF EXTREMELY-LOW-FREQUENCY WAVE MOTIONS, APR 1963.  
RY CANTOR A DDC NUMBER 408099  
FARBER J DDC NUMBER 408099  
INSTRUMENT AF 19<628>00340  
PROJ/TASK 5631 01

AFCL 63 492  
ASTRONETIC RESEARCH INC NASHUA N H  
MODEL ARI 4103 COLLECTOR BIAS GENERATOR.  
BY PARKER G DDC NUMBER 412927  
INSTRUMENT AF 19<628>02420  
PROJ/TASK 8617 01

AFCL 63 493  
HAWAII U HONOLULU  
TROPICAL CYCLONES OF THE EASTERN NORTH PACIFIC AS REVEALED BY TIROS OBSERVATIONS, MAY 1963.  
BY SADLER J C DDC NUMBER 412403  
INSTRUMENT AF 19<604>06156  
PROJ/TASK 669866982

AFCL 63 494  
HAWAII U HONOLULU  
SPECTRUM OF THE FLARE OF SEPTEMBER 2, 1960, MAY 1963.  
ASTROPHYS J 137 2 FEB 1963  
BY SMITH E V P DDC NUMBER 414679  
INSTRUMENT AF 19<604>04961  
PROJ/TASK 7649 02  
PROJ/TASK 504379708

AFCL 63 495  
JOHNS HOPKINS U BALTIMORE MD  
MEASUREMENT OF INFRARED SPECTRAL COMPONENTS FLOWING UPWARD AND DOWNWARD IN THE ATMOSPHERE, 19 APR 1963.  
BY WHITE R C DDC NUMBER 414679  
INSTRUMENT AF 19<604>04961  
PROJ/TASK 7649 02  
PROJ/TASK 504379708

AFCL 63 496  
TEXAS U AUSTIN  
RESEARCH DIRECTED TOWARD THE DEVELOPMENT OF BASIC TECHNIQUES OF FORECASTING THE NOCTURNAL FORMATION AND DISSIPATION OF RADIATION FOG AND SELECTED MESOSCALE PHENOMENA, 31 MAR 1963  
RY DUCHON C F DDC NUMBER 410849  
WILLIS G DDC NUMBER 410849  
INSTRUMENT AF 19<604>07279  
PROJ/TASK 765576551  
PROJ/TASK 765576554

AFCL 63 497  
STANFORD U CALIF  
EXCITATION OF FIELD-ALIGNED SOUND WAVES BY ELECTRON STREAMS, APR 1963.  
RY BUNEMAN O DDC NUMBER 413888  
INSTRUMENT AF 19<628>00233  
PROJ/TASK 8653

AFCL 63 498  
OSSERVATORIO ASTROFISICO DI ARCETRI FLORENCE ITALY  
SCINTILLATION OF THE RADIO-SUN AT CM WAVELENGTH.  
RY NOCI G DDC NUMBER 405602  
PIATTILLI M DDC NUMBER 405602  
RIGHTINI G DDC NUMBER 405602  
TAGLIAFERRI G DDC NUMBER 405602  
INSTRUMENT AF 61<052>00430  
PROJ/TASK 556346305

AFCL 63 499  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
METEOR DATA BULLETIN NO. 12.  
DDC NUMBER 418313  
INSTRUMENT AF 61<052>00227  
PROJ/TASK 5630

AFCL 63 500  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
ATMOSPHERIC DISPERSION AND ABSORPTION OF MICROWAVES, APR 1963.  
BY FAGIOLI O DDC NUMBER 418313  
CASINI G DDC NUMBER 418313  
INSTRUMENT AF 61<052>00593  
PROJ/TASK 5633 04

AFCL 63 501  
DENMARK TECHNICAL U COPENHAGEN  
PARAMETRIC CURVES FOR RADIATION FROM A VERTICAL DIPOLE NEAR A COASTLINE, JUL 1963.  
RY CHRISTIANSEN S DDC NUMBER 418313  
ANDERSEN J R DDC NUMBER 418313  
INSTRUMENT AF 61<052>00503  
PROJ/TASK 5635 02

AFCL 63 502  
OXFORD U ENGLAND  
FLUORINE ENDOR IN CALCIUM FLUORIDE, MAY 1963.  
BY BAKER J M DDC NUMBER 418313  
MURRELL J P DDC NUMBER 418313  
INSTRUMENT AF 61<052>00677  
PROJ/TASK 5621 04

AFCL 63 503  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
QUARTERLY PROGRESS AND STATUS REPORT, 15 APR 1962.  
INSTRUMENT AF-EOAR -0082-62  
PROJ/TASK 4610 02

AFCL 63 504  
ROYAL INST OF TECH STOCKHOLM SWEDEN  
QUARTERLY PROGRESS AND STATUS REPORT, 15 OCT 1962.  
INSTRUMENT AF-EOAR -0082-62  
PROJ/TASK 4610 02

AFCL 63 505  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
MICROWAVE PHYSICS LAB L G HANSCOM FIELD MASS  
AUTOMATED SPIN WAVE INSTABILITY THRESHOLD MEASUREMENT AND RECORDING, OCT 1963.  
RY PURNHAGEN T G DDC NUMBER 418313  
PROJ/TASK 4600 03

AFCL 63 906  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS DATA SCIENCES LAB  
L G HANSON FIELD MASS  
PASSIVE AND TRANSFORMERLESS LC, RC AND RL ONE-PORTS, OCT  
1963.  
BY HAAKE E H  
PROJ/TASK 5628 06

AFCL 63 907  
SYSTEMS DEVELOPMENT CORP SANTA MONICA CALIF  
TWO THEOREMS ABOUT REGULAR BASES OF SETS OF WORDS, 4 SEP  
1963.  
BY GINSBURG S  
MIRNARD T N  
INSTRUMENT AF 19C628>00485  
PROJ/TASK 464146410

AFCL 63 911  
STANFORD RESEARCH INST MENLO PARK CALIF  
AIRCRAFT PROPELLER CORONA THRESHOLD AND ITS EFFECT ON  
PRECIPITATION STATIC NOISE REDUCTION, SEP 1963.  
BY VANCE F F  
MANVICZ J F  
INSTRUMENT AF 19C628>00325  
PROJ/TASK 4600 01

AFCL 63 914  
PARKE MATHEMATICAL LABS INC CARLISLE MASS  
DECODING RULES FOR KAUFZ-S CODES, OCT 1963.  
BY HAEFFEL H G  
INSTRUMENT AF 19C604>07493  
PROJ/TASK 5628

AFCL 63 916  
RITZBERG W INNSBRUCK AUSTRIA  
CALCULATION OF THE DIPOLE FIELD USING THE VLF  
APPROXIMATION, 10 AUG 1963.  
BY HOMMEL R  
INSTRUMENT AF 61C052>00490  
PROJ/TASK 4610 01

AFCL 63 920  
NEW YORK U NEW YORK  
A SIMPLIFIED ANALYSIS OF THE SERIES-SHUNT FEEDBACK PAIR,  
9 SEP 1963.  
BY GHAIK M C  
INSTRUMENT AF 19C628>00379  
PROJ/TASK 5628 06

AFCL 63 936  
MOTOROLA INC PHOENIX ARIZ  
RESEARCH AND DEVELOPMENT FOR SURFACE PROTECTION FOR  
SILICON DEVICES, 14 SEP 1963.  
BY FLASCHEN S S  
COOPER M M  
HALL M A  
INSTRUMENT AF 19C604>00358  
PROJ/TASK 5621

AFCL 63 940  
HUGHES AIRCRAFT CO CULVER CITY CALIF  
ADMITTANCE OF WAVEGUIDE RADIATING INTO PLASMA ENVIRONMENT,  
OCT 1963.  
BY VILLENIEVE A T  
INSTRUMENT AF 19C604>08386  
PROJ/TASK 4600 01

AFCL 63 951  
NEW YORK U NEW YORK  
ASYMPTOTIC METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, THE  
REDUCED WAVE EQUATION AND MAXWELL-S EQUATION, NOV 1963.  
BY LEWIS R M  
FELLER J N  
INSTRUMENT AF 19C604>04238  
PROJ/TASK 5635 02

AFCL 63 992A  
GENERAL ELECTRIC CO SCHENECTADY N Y  
SEMICONDUCTOR DEVICE CONCEPTS.  
BY AVFN M  
HALL R N  
RACETT J H  
WOODRURY H H  
GARWACKI W  
SCHWABZ S  
SOLTYS T J  
FSMANN L H  
INSTRUMENT AF 19C628>00129  
PROJ/TASK 4608 04

AFCL 63 992B  
GENERAL ELECTRIC CO SCHENECTADY N Y  
SEMICONDUCTOR DEVICE CONCEPTS.  
BY AVFN M  
HALL R N  
RACETT J H  
WOODRURY H H  
GARWACKI W  
SCHWABZ S  
SOLTYS T J  
FSMANN L H  
INSTRUMENT AF 19C628>00329  
PROJ/TASK 4608 04

AFCL 63 800  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
METFOR DATA BULLETIN NO. 13, JUL 1962.  
DDC NUMBER 41814  
INSTRUMENT AF 61C052>00227  
PROJ/TASK 5630

AFCL 63 801  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
METFOR DATA BULLETIN NO. 14, SEP 1962.  
DDC NUMBER 41814  
INSTRUMENT AF 61C052>00227  
PROJ/TASK 5630

AFCL 63 802  
DENVER COLO  
ABSOLUTE CALIBRATION OF A SPECTRAL RADIOMETER, 15 MAY 1963.  
BY WILLIAMS W J  
MURCRAV D G  
MURCRAV F H  
DDC NUMBER 417632  
INSTRUMENT AF 19C604>07427  
PROJ/TASK 8662

AFCL 63 803  
PENNSYLVANIA STATE U UNIVERSITY PARK  
MODEL STUDIES OF EFFECTS OF NEAR SOURCE VELOCITY  
DISCONTINUITIES OF FIRST-MOTION PATTERNS, 9 APR 1963.  
BY LAVIN P M  
HOWELL R F JR  
INSTRUMENT AF 19C604>07383  
PROJ/TASK 8657 03

AFCL 63 804  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
DIGITAL FILTERS AND APPLICATIONS TO SEISMIC DETECTION AND  
DISCRIMINATION, FEB 1963.  
BY CLARROUT J F  
DDC NUMBER 4098 1  
INSTRUMENT AF 19C604>07378  
PROJ/TASK 8657 03

AFCL 63 805  
ALASKA U COLLEGE  
HYDROMAGNETIC INTERPRETATION OF SUDDEN COMMENCEMENTS OF  
GEOMAGNETIC STORMS, MAY 1963.  
BY WILSON C R  
DDC NUMBER 410399  
INSTRUMENT AF 19C604>07986  
PROJ/TASK 8601 04

AFCL 63 806  
BOSTON U MASS  
CRYSTAL STRUCTURE STUDIES OF MATERIALS FOR POTENTIAL USE  
IN SOLAR ENERGY CONVERSION, 30 APR 1963.  
BY FOIKS E  
DDC NUMBER 407695  
INSTRUMENT AF 19C604>07944  
PROJ/TASK 862662945

AFCL 63 807  
SPERRY RAND CORP FORD INSTRUMENT CO LONG ISLAND CITY N Y  
RESEARCH STUDIES IN THE ROLE OF ADDITIVES IN THE LOW  
TEMPERATURE CERIUM DIODE, MAY 1963.  
BY SILVERBERG M  
HARING L  
MCINALLY J  
BERNSTEIN M  
DDC NUMBER 411276  
INSTRUMENT AF 19C604>07846  
PROJ/TASK 869261921

AFCL 63 808  
ST JOSEPH COLL WEST HARTFORD CONN  
FORMATION OF ENERGY RICH COMPOUNDS AT LIGHT ACTIVATED  
SENSITIZER SURFACES, JUN 1963.  
BY MARKHAM M C  
DDC NUMBER 407090  
INSTRUMENT AF 19C604>07224  
PROJ/TASK 8694 02

AFCL 63 809  
SASKATCHEWAN U SASKATOON CANADA  
BASIC RESEARCH ON AURORA AND AIRGLOW, 30 APR 1963.  
BY HINTON D M  
JONES A V  
DDC NUMBER 408612  
INSTRUMENT AF 19C604>07265  
PROJ/TASK 766176612

AFCL 63 810  
MINNESOTA U MINNEAPOLIS  
NON-RADIATIVE ELECTRONIC ENERGY TRANSFER IN ORGANIC  
LIQUIDS AT HIGH DONOR% CONCENTRATIONS, MAY 1963.  
BY LIPSKY S  
DDC NUMBER 409481  
INSTRUMENT AF 19C604>08156  
PROJ/TASK 869666 41

AFCL 63 811  
COLORADO U BOULDER  
OPTICAL CONSTANTS OF METALS IN THE FAR ULTRAVIOLET AND  
THEIR RELATION TO ENERGY BAND STRUCTURE, 1 MAY 1963.  
BY GOURNAY L S  
DDC NUMBER 407802  
INSTRUMENT AF 19C628>00287  
PROJ/TASK 763528166

AFCL 63 812  
HARVARD U CAMBRIDGE MASS  
LABORATORY STUDIES OF ATOMIC AND ELECTRONIC COLLISION  
PROCESSES RELEVANT TO THE STUDY OF THE UPPER ATMOSPHERE,  
6 MAY 1963.  
BY CARLETON N P  
INSTRUMENT AF 19C628>000318  
PROJ/TASK 766176614

AFCL 63 813  
SASKATCHEWAN U SASKATOON CANADA  
AURORAL PATCHES SHOWING STRONG HYDROGEN LINES  
BY MONTGOMERY L F J  
JONES A V  
INSTRUMENT AF 19C628>02829  
PROJ/TASK 7661 02

AFCL 63 814  
SASKATCHEWAN U SASKATOON CANADA  
THE DIURNAL VARIATION AND EXCITATION MECHANISM OF THE  
1.55 μ - 1.5 μ  
BY JONES A V  
GATTINGE P L  
INSTRUMENT AF 19C628>02829  
PROJ/TASK 7661 02

AFCL 63 815  
COLUMBIA U NEW YORK N Y  
GEOMAGNETIC OBSERVATIONS ON FLETCHER-S ICE ISLAND CT-336  
APRIL 18 - SEPTEMBER 11, 1961, APR 1963.  
BY WALTER J G C  
DDC NUMBER 417442  
INSTRUMENT AF 19C604>07467  
PROJ/TASK 7628 05

AFCL 63 816  
COLUMBIA U NEW YORK N Y  
TIDE AND STORM SURGE OBSERVATIONS IN THE CHURCH SEA, MAY  
1963.  
BY HINKINS R L  
DDC NUMBER 414368  
INSTRUMENT AF 19C604>07467  
PROJ/TASK 7628 05

AFCL 63 817  
HIGH ALTITUDE INSTRUMENT CO GOLDEN COLO  
A REPORT OF SIX EXPEDITIONS AND SOLAR FLUENCE DATA FROM  
COLORADO BALLOON FLIGHTS, 17 MAY 1962, FEB 1963.  
BY GODDARD A A JR  
DDC NUMBER 410741  
INSTRUMENT AF 19C604>07427  
PROJ/TASK 7621

AFRL 63 618  
 NEW YORK U NEW YORK  
 LOW ENERGY PROTON-DEUTERON AND NEUTRON-DEUTERON SCATTERING  
 MAY 1963.  
 BY WALTERSTEIN V  
 ROCHFNRG L  
 SPRUCH L  
 INSTRUMENT AF 19C606>04555  
 PROJ/TASK 7635 07

AFRL 63 619  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
 TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
 SOLUTIONS OF LONG-LINE GEODETIC AZIMUTHS BY  
 PHOTOGRAMMETRIC TECHNIQUES, JUN 1963.  
 BY MANCINI A  
 VAMBERG H P  
 SHELDON L L  
 MORONEY R W  
 DDC NUMBER 413008  
 INSTRUMENT AF 19C606>08706  
 PROJ/TASK 7600 03

AFRL 63 620  
 COLUMBIA U NEW YORK N Y  
 ADDITIONAL EVIDENCE RELATING TO A WORLDWIDE STORM OF  
 MICROSPHERES WITH PERIODS OF ABOUT 27 SECONDS, APR 1963.  
 BULL SEISMOL SOC AM 53 3 681-685  
 BY OLIVER J  
 DDC NUMBER 415305  
 INSTRUMENT AF 19C606>07376  
 PROJ/TASK 8652 03

AFRL 63 621  
 COLUMBIA U NEW YORK N Y  
 FREE SPHEROIDAL VIBRATIONS OF THE EARTH AT VERY LONG  
 PERIODS, PART I, APR 1963.  
 BULL SEISMOL SOC AM 53 3 483-501  
 BY ALSOP L F  
 DDC NUMBER 415304  
 INSTRUMENT AF 19C606>07376  
 PROJ/TASK 8652 03

AFRL 63 622  
 COLUMBIA U NEW YORK N Y  
 FREE SPHEROIDAL VIBRATIONS OF THE EARTH AT VERY LONG  
 PERIODS, PART II, EFFECT OF RIGIDITY OF THE INNER CORE,  
 APR 1963.  
 BULL SEISMOL SOC AM 53 3 503-515  
 BY ALSOP L F  
 DDC NUMBER 415306  
 INSTRUMENT AF 19C606>07376  
 PROJ/TASK 8652 03

AFRL 63 623  
 CHICAGO U ILL  
 ON THE INFLUENCE OF RELEASED LATENT HEAT ON CYCLONE  
 DEVELOPMENT, JUN 1963.  
 BY DANARD M R  
 DDC NUMBER 407688  
 INSTRUMENT AF 19C606>07230  
 PROJ/TASK 866186410

AFRL 63 624  
 ALASKA U COLLEGE  
 THE CROSS MODULATION OF COSMIC NOISE - A TECHNIQUE FOR  
 INVESTIGATING THE DISTURBED D REGION, MAY 1963.  
 BY BENSON R F  
 DDC NUMBER 416436  
 INSTRUMENT AF 19C606>08833  
 PROJ/TASK 7663 02

AFRL 63 625  
 CHICAGO U ILL  
 SPECTROSCOPIC RESEARCH, 31 MAY 1963.  
 BY MULLIKEN R S  
 DDC NUMBER 408620  
 INSTRUMENT AF 19C606>06662  
 PROJ/TASK 862786271

AFRL 63 626  
 RAYTHEON CO NORWOOD MASS  
 MISSILE LAUNCH DETECTION USING MULTIHOP GROUND BACKSCATTER  
 QIN, MAY 1963, SECRET.  
 BY CAMPBELL L W  
 EDWARDS L C  
 INSTRUMENT AF 19C628>02373  
 PROJ/TASK 464946441  
 PROJ/TASK 4691 02

AFRL 63 627  
 OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
 ON THE THEORY OF ERRORS OF PHYSICAL GEODESY (GRAVITATIONAL  
 FIELD OF THE EARTH AND SATELLITE ORBITS), OCT 1962.  
 BY MORITZ H  
 DDC NUMBER 410292  
 INSTRUMENT AF 19C628>01626  
 PROJ/TASK 7600 03

AFRL 63 628  
 MASSACHUSETTS INST OF TECH CAMBRIDGE  
 STUDIES OF THE ATMOSPHERIC GENERAL CIRCULATION, IV, 30 APR  
 1963.  
 BY STARR V P  
 DDC NUMBER 417124  
 INSTRUMENT AF 19C606>06104  
 PROJ/TASK 862846280

AFRL 63 629  
 TEXAS COLL OF A AND M COLLEGE STATION  
 A STUDY OF SPATIAL VARIATIONS IN MICROMETEOROLOGICAL  
 PARAMETERS, 30 APR 1963.  
 BY CLAYTON W H  
 MISTRY D O  
 DDC NUMBER 409898  
 INSTRUMENT AF 19C606>05927  
 PROJ/TASK 765576541  
 PROJ/TASK 860486040

AFRL 63 630  
 MASSACHUSETTS INST OF TECH CAMBRIDGE  
 FURTHER RESEARCH DIRECTED TOWARD THE STUDY OF RELATIONS  
 OF ATMOSPHERIC FLOW TO WEATHER.  
 BY SANDERS J  
 INSTRUMENT AF 19C606>08373  
 PROJ/TASK 864186410

AFRL 63 631  
 WESTERN ONTARIO U LONDON CANADA  
 INVESTIGATION OF REFRACTOMETRIC MEASUREMENTS IN THE  
 ATMOSPHERE AT HIGH RELATIVE HUMIDITIES AND TEMPERATURES,  
 JUL 1963.  
 BY HAY D R  
 TURNER H F  
 INSTRUMENT AF 19C628>00444  
 PROJ/TASK 6682 02

AFRL 63 632  
 RAYLOR U WACO TEX  
 CATALYTIC PROCESSES ON PLATINIZED PLATINUM ELECTRODES, APR  
 1963.  
 BY FRANKLIN T C  
 MCCLELLAND O  
 FRANKLIN N F  
 DDC NUMBER 410477  
 INSTRUMENT AF 19C606>08414  
 PROJ/TASK 8696 06

AFRL 63 633  
 NEW YORK U NEW YORK  
 MATERIALS FOR THERMOELECTRIC GENERATORS, MAY 1963.  
 BY RIVERO J  
 CADOFF I  
 INSTRUMENT AF 19C606>08076  
 PROJ/TASK 8692 01

AFRL 63 634  
 KIRUNA GEOPHYSICAL OBSERVATORY SWEDEN  
 A SYSTEM FOR AUTOMATIC COLLECTION AND PROCESSING OF  
 STANDARD MAGNETOMETER DATA, AND THE CALCULATION OF THEIR  
 POWER SPECTRUM, 10 APR 1963.  
 BY GUSTAFSSON G  
 THUNBERG A  
 HJERVELLA Y F  
 DDC NUMBER 410127  
 INSTRUMENT AF 61C052>00237  
 PROJ/TASK 8601 02

AFRL 63 635  
 UPPSALA U SWEDEN  
 MAGNETIC FIELD VARIATIONS IN THE VICINITY OF LIGHTNING  
 DISCHARGES IN RELATION TO THEIR CHANNELS  
 BY NORINDER H  
 KNUDSEN F  
 DDC NUMBER 410153  
 INSTRUMENT AF 61C052>00171  
 PROJ/TASK 5630  
 PROJ/TASK 5631

AFRL 63 637  
 CHALMERS INST OF TECH GOTHENBURG SWEDEN  
 DYNAMIC NONLINEAR WAVE PROPAGATION IN IONIZED MEDIA, 3,  
 ELECTROMAGNETIC NONLINEAR INTERACTION AND REFLECTION FROM  
 A PLANE IONIZED MEDIUM, 1963.  
 BY RYDRECF O F H  
 DDC NUMBER 414919  
 INSTRUMENT AF 61C052>00451  
 PROJ/TASK 5961 01

AFRL 63 638  
 HARVARD U CAMBRIDGE MASS  
 SOLAR RADIO BURSTS OF SPECTRAL TYPES II AND IV - THEIR  
 RELATIONS TO OPTICAL PHENOMENA AND TO GEOMAGNETIC ACTIVITY  
 JUL 1963.  
 BY BELL R  
 DDC NUMBER 414651  
 INSTRUMENT AF 19C606>04962  
 PROJ/TASK 7649 01

AFRL 63 639  
 NORWEGIAN DEFENSE RESEARCH ESTABLISHMENT KJELLER NORWAY  
 MEASUREMENT OF AN ELECTRON DENSITY AND COLLISION FREQUENCY  
 PROFILE IN THE LOWER D-REGION DURING POLAR RADIO BLACKOUT  
 CONDITIONS, 18 FEB 1963.  
 BY HJELLAND R  
 HOLY O  
 LANDMARK R  
 DDC NUMBER 408288  
 INSTRUMENT AF 61C052>00464  
 PROJ/TASK 563156311

AFRL 63 640  
 BLOCK ASSOCI INC CAMBRIDGE MASS  
 INFRARED HORIZON STUDIES, 31 JUN 1963.  
 BY BERGENROTHER K M  
 PERCY W J  
 DDC NUMBER 416773  
 INSTRUMENT AF 19C628>01618  
 PROJ/TASK 4627 02

AFRL 63 642  
 SLENIA S P A ROME ITALY  
 PROPAGATION OF WAVES IN INHOMOGENEOUS MAGNETO-ACTIVE  
 PLASMA COLUMNS, 29 JAN 1963.  
 BY DE SANTIS I G  
 DDC NUMBER 409172  
 INSTRUMENT AF 61C052>00145  
 PROJ/TASK 5630

AFRL 63 643  
 OXFORD U ENGLAND  
 (II) - EXPERIMENTAL METHODS FOR DETERMINING LINE WIDTHS,  
 PROC ROY SOC A 272 441-442 1963  
 BY ROBINSON G C  
 THOMPSON H F  
 INSTRUMENT AF 61C052>00202  
 PROJ/TASK 8603 03

AFRL 63 644  
 OXFORD U ENGLAND  
 REPRINT FROM THE PROCEEDINGS OF THE ROYAL SOCIETY,  
 PROC ROY SOC I 272 453-466 1963  
 INSTRUMENT AF 61C052>00202  
 PROJ/TASK 8603 03

AFRL 63 645  
 DURHAM U ENGLAND  
 RESEARCH ON THERMAL CONVECTION IN ROTATING FLUIDS AND ON  
 ROTATING BAROTROPIC FLUIDS, DEC 1961.  
 BY HIDE R  
 DDC NUMBER 414758  
 INSTRUMENT AF 61C052>00216  
 PROJ/TASK 860686063

AFRL 63 646  
 WEIZMAN INST OF SCIENCE REHOVOTH ISRAEL  
 WIDTHS OF HCL OVERTONE LINES AT VARIOUS TEMPERATURES, MAR  
 1963.  
 BY GOLDBERG H  
 BENFON M  
 DDC NUMBER 410278  
 INSTRUMENT AF 61C052>00388  
 PROJ/TASK 8603 03

AFRL 63 647  
 WEIZMAN INST OF SCIENCE REHOVOTH ISRAEL  
 INFLUENCE OF VIBRATION-ROTATION INTERACTION ON SPECTRAL  
 LINE INTENSITIES OF LINEAR MOLECULES, MAR 1963.  
 BY JACOBI N  
 JAFFE J H  
 DDC NUMBER 410152  
 INSTRUMENT AF 61C052>00388  
 PROJ/TASK 8603 03

AFCL 63 648  
 LIFE U BELGIUM  
 RESEARCH ON RELATIONS BETWEEN COMETARY, SOLAR AND UPPER  
 ATMOSPHERIC PROCESSES, 24 APR 1963.  
 BY SWINGS P  
 DDC NUMBER 408320  
 INSTRUMENT AF 61<052>00987  
 PROJ/TASK 860586055

AFCL 63 649  
 LIFE U BELGIUM  
 COLLISIONS BETWEEN WEST FORD NEEDLES AND MICROMETEORITES,  
 10 MAY 1963.  
 BY SAIVAL A  
 DDC NUMBER 408320  
 INSTRUMENT AF 61<052>00987  
 PROJ/TASK 860586055

AFCL 63 650  
 ISRAEL INST OF TECH HAIFA  
 MAGNETO-IONIC WAVE PROPAGATION IN THE IONOSPHERE - THE  
 DIRECTION OF MINIMUM ABSORPTION OF A HOMOGENEOUS PLANE  
 TRAVELING A HOMOGENEOUS IONOSPHERIC SLAB, 28 FEB 1963.  
 BY ALTMAN C  
 DDC NUMBER 413302  
 INSTRUMENT AF 61<052>00555  
 PROJ/TASK 563156311

AFCL 63 651  
 CENTRO DI STUDIO PER LA FISICA MICROONDE  
 FLORENCE ITALY  
 A FIRST RESULT ABOUT METEOR FLOW DERIVED FROM RADAR  
 OBSERVATIONS, MAR 1963.  
 BY CARRARA N  
 DDC NUMBER 418344  
 INSTRUMENT AF 61<052>00592  
 PROJ/TASK 5631 02

AFCL 63 652  
 CENTRO DI STUDIO PER LA FISICA MICROONDE  
 FLORENCE ITALY  
 RADAR PCMO OBSERVATIONS OF QUADRANTIDE SHOWER, MAR 1963.  
 BY CECCARELLI S  
 DDC NUMBER 418343  
 INSTRUMENT AF 61<052>00592  
 PROJ/TASK 5631 02

AFCL 63 653  
 PENNSYLVANIA STATE U UNIVERSITY PARK  
 AN INVESTIGATION OF THE INFLUENCE OF COLLISIONS ON LOW  
 FREQUENCY GROUP HEIGHTS, 13 JUL 1963.  
 BY HARDY J D  
 DDC NUMBER 408355  
 INSTRUMENT AF 19<604>08012  
 PROJ/TASK 8605 01

AFCL 63 654  
 PHYSICAL METEOROLOGICAL OBSERVATORY DAVOS PLATZ  
 SWITZERLAND  
 THE DIURNAL AND ANNUAL VARIATIONS OF THE SPECTRAL  
 INTENSITY OF ULTRAVIOLET SKY AND GLOBAL RADIATION ON  
 CLOUDLESS DAYS AT DAVOS, 1960 M.A.S.L., JAN 1963.  
 BY BENER P  
 DDC NUMBER 409030  
 INSTRUMENT AF 61<052>00618  
 PROJ/TASK 7621 03

AFCL 63 655  
 ALLIED RESEARCH ASSOC INC CONCORD MASS  
 APT USER-S GUIDE, JUN 1963.  
 BY GOLDSBLAK L  
 DDC NUMBER 409109  
 INSTRUMENT AF 19<628>02471  
 PROJ/TASK 6698 02

AFCL 63 656  
 HARVARD U CAMBRIDGE MASS  
 LABORATORY STUDIES OF ATOMIC AND ELECTRONIC COLLISION  
 PROCESSES RELEVANT TO THE STUDY OF THE UPPER ATMOSPHERE, 6  
 MAY 1963.  
 BY CARLETON H P  
 DDC NUMBER 416580  
 INSTRUMENT AF 19<628>00206  
 PROJ/TASK 767476790

AFCL 63 657  
 COLUMBIA BROADCASTING SYSTEM STAMFORD CONN  
 INFRARED EMISSION PHOSPHORS,  
 BY THIELPNS P H  
 DDC NUMBER 417342  
 INSTRUMENT AF 19<604>08068  
 PROJ/TASK 767476759

AFCL 63 658  
 MALMERS INST OF TECH GOTHENBURG SWEDEN  
 DYNAMIC NONLINEAR WAVE PROPAGATION IN IONIZED MEDIA, 1963.  
 BY WILHELMSSON M  
 DDC NUMBER 415427  
 INSTRUMENT AF 61<052>00451  
 PROJ/TASK 5461 01

AFCL 63 659  
 LIGHTCLIMATIC OBSERVATORY AROSA SWITZERLAND  
 VERTICAL OZONE DISTRIBUTION OVER AROSA FROM SEVENTEEN  
 MONTHS OF ROUTINE OBSERVATIONS OF THE UMKEHR EFFECT.  
 BY DUTSCH M U  
 DDC NUMBER 408264  
 INSTRUMENT AF-EDAR -0018-61  
 PROJ/TASK 860486045

AFCL 63 660  
 COLORADO U BOULDER  
 PROCEEDINGS ON THE CONFERENCE ON THE LIMITS OF THE 11TH  
 AND 16TH CENTURIES, 18-24 JUN 1962.  
 BY RYAN R A  
 DDC NUMBER 408264  
 INSTRUMENT AF 19<628>00482  
 PROJ/TASK 8628 04

AFCL 63 662  
 STANFORD RESEARCH INST MENLO PARK CALIF  
 DYNAMIC PROPERTIES OF ROCKS, 15 AUG 1963.  
 BY GREGSON V G  
 DDC NUMBER 413819  
 INSTRUMENT AF 19<604>08419  
 PROJ/TASK 8652 01

AFCL 63 644  
 ALLIED RESEARCH ASSOC INC CONCORD MASS  
 TERRESTRIAL FEATURES OF THE UNITED STATES VIEWED FROM  
 TIROS.  
 BY CROWIN J F  
 DDC NUMBER 413087  
 INSTRUMENT AF 19<628>02471  
 PROJ/TASK 6698 02

AFCL 63 645  
 HARVEY AND DETER LARS INC FITCHBURG MASS  
 RESEARCH INTO GRAVITY MEASURING TECHNIQUES, MAR 1963.  
 DDC NUMBER 412923  
 INSTRUMENT AF 19<604>07220  
 PROJ/TASK 7600 07

AFCL 63 646  
 PHYSICS-ENGINEERING-CHEMISTRY CORP BOULDER COLO  
 INVESTIGATION FOR THE PURPOSE OF IMPROVING THE EFFICIENCY  
 OF UTILIZATION OF SOLAR ENERGY BY THE DECOMPOSITION OF  
 WATER INTO HYDROGEN AND OXYGEN, MAY 1963.  
 BY WFEY R F  
 DDC NUMBER 413930  
 INSTRUMENT AF 19<604>08420  
 PROJ/TASK 669466940

AFCL 63 647  
 PITTSBURGH U PA  
 INVESTIGATIONS OF VIBRATION-ROTATION LINE STRENGTHS AND  
 WIDTHS IN HCL AND HI, MAY 1963.  
 BY BENFACH M  
 DDC NUMBER 412308  
 INSTRUMENT AF 19<604>06138  
 PROJ/TASK 860186033

AFCL 63 648  
 AVCO CORP WILMINGTON MASS  
 RESEARCH ON AFROSOL SCATTERING IN THE INFRARED, JUN 1963.  
 BY PENNDORF R B  
 DDC NUMBER 414384  
 INSTRUMENT AF 19<604>05743  
 PROJ/TASK 767076704

AFCL 63 649  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS SPACE PHYSICS LAB  
 L G HANSCOM FIELD MASS  
 SPHERICAL HARMONIC ANALYSES - I - A NEW METHOD AND ITS  
 VERIFICATIONS, JUN 1963.  
 BY FOUGERE P M  
 DDC NUMBER 412825  
 PROJ/TASK 7601 05

AFCL 63 670  
 ALLIED RESEARCH ASSOC INC CONCORD MASS  
 A MODIFICATION OF THE FUJITA METHOD FOR TIROS PHOTOGRAPH  
 RECTIFICATION, 15 JUN 1963.  
 BY CROWIN J F  
 DDC NUMBER 414563  
 INSTRUMENT AF 19<628>00320  
 PROJ/TASK 7659 01

AFCL 63 671  
 MASSACHUSETTS INST OF TECH CAMBRIDGE  
 COMPUTATIONS OF THE EDDY HEAT AND DENSITY TRANSPORTS  
 ACROSS THE GULF STREAM, 1 JUL 1963.  
 BY DORT A H  
 DDC NUMBER 414364  
 INSTRUMENT AF 19<628>02408  
 PROJ/TASK 8678

AFCL 63 672  
 MICHIGAN U ANN ARBOR  
 SEISMIC STUDIES AND EXPERIMENTAL INVESTIGATIONS, JUN 1963.  
 BY WILLIS D F  
 DDC NUMBER 408773  
 INSTRUMENT AF 19<604>06642  
 PROJ/TASK 763976396

AFCL 63 673  
 MICHIGAN U ANN ARBOR  
 COMPUTER STUDIES OF MICROFISH STATISTICS WITH  
 APPLICATIONS TO PREDICTION AND DETECTION, MAY 1963.  
 BY GALBRAITH J N JR  
 DDC NUMBER 409031  
 INSTRUMENT AF 19<604>07378  
 PROJ/TASK 8652 03

AFCL 63 674  
 HARVARD U CAMBRIDGE MASS  
 RESEARCH IN MAGNETOHYDRODYNAMICS AND ITS ASTROPHYSICAL  
 APPLICATIONS, JUN 1963.  
 BY KROOK M  
 DDC NUMBER 414494  
 INSTRUMENT AF 19<604>06545  
 PROJ/TASK 861586152

AFCL 63 675  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
 OPTICAL PHYSICS LAB L G HANSCOM FIELD MASS  
 A MODEL OF A CLEAR STANDARD ATMOSPHERE FOR ATTENUATION IN  
 THE VISIBLE REGION AND INFRARED WINDOWS, JUL 1963.  
 BY FLETCHER I  
 PROJ/TASK 7670 03

AFCL 63 676  
 COLUMBIA U NEW YORK N Y  
 ANALOG ANALYSIS OF SEISMOGRAMS RECORDED ON MAGNETIC TAPE,  
 1 MAY 1963.  
 BY SITTON G N  
 DDC NUMBER 416516  
 INSTRUMENT AF 19<604>07376  
 PROJ/TASK 8652 03

AFCL 63 677  
 STANFORD RESEARCH INST MENLO PARK CALIF  
 DESIGN AND CONSTRUCTION OF 150-FOOT STIFFERABLE PARABOLIC  
 ANTENNAS, MAY 1963.  
 BY SCHLUBROTH J C  
 DDC NUMBER 417721  
 INSTRUMENT AF 19<604>05912

AFCL 63 678  
MCGILL U MONTREAL P Q CANADA  
A MULTI-LEVEL STUDY OF HEAT TRANSFER.  
RY HILL C  
INSTRUMENT AF 19<604>08431  
PROJ/TASK 7690 01  
PROJ/TASK 8604

AFCL 63 680  
MUNICH U WEST GERMANY  
INVESTIGATION OF THE INFRARED EMISSION SPECTRUM OF THE  
ATMOSPHERE AND EARTH, MAY 1963.  
RY BOLLE H-J  
MOLLER F  
ZIMMERMANN W  
DDC NUMBER 416497  
INSTRUMENT AF 61<052>00227  
PROJ/TASK 860386032

AFCL 63 681  
UDSALA U SWEDEN  
COSMIC RAY INTENSITY VARIATIONS DURING 1962, 25 APR 1963.  
RY SANDSTROM A F  
DYRING F  
ELKSTROM L  
GRONKVIST B O  
LINDGREN S  
OSTMAN B  
DDC NUMBER 413048  
INSTRUMENT AF 61<052>00614  
PROJ/TASK 8600 03

AFCL 63 682  
WEIZMAN INST OF SCIENCE REHOVOTH ISRAEL  
PROPAGATION OF A PULSE WITHIN A SPHERE, 10 APR 1963.  
RY ALTERMAN Z  
KERNFIELD D  
DDC NUMBER 411991  
INSTRUMENT AF 61<052>00520  
PROJ/TASK 865285206

AFCL 63 683  
OKLAHOMA U RESEARCH FOUNDATION NORMAN  
DENSITY IN HYDROSTATIC ATMOSPHERES, JUN 1963.  
RY WHITFIELD V S  
ALICE F F  
DDC NUMBER 416049  
INSTRUMENT AF 19<628>00689  
PROJ/TASK 8624 02

AFCL 63 684  
TEXAS U AUSTIN  
ANTENNA AND RADIO WAVE PROPAGATION CHARACTERISTICS AT VHF  
NEAR AND IN THE GROUND, 30 JUN 1963.  
RY SCHWARTZ D M  
LAGROFF A H  
DDC NUMBER 414347  
INSTRUMENT AF 19<604>08038  
PROJ/TASK 4603

AFCL 63 685  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
FULL FIELD SEISMIC MODELLING, JUN 1963.  
RY THOMPSON K C  
DDC NUMBER 419654  
PROJ/TASK 8652 10

AFCL 63 686  
HARVARD U CAMBRIDGE MASS  
CLASSIFICATION OF SOLAR PROMINENCES FOR SUN DOT CYCLE NO.  
19, 1959, AUG 1963.  
RY WENZEL D M  
JONES F S  
DDC NUMBER 416644  
INSTRUMENT AF 19<604>06962  
PROJ/TASK 8601

AFCL 63 687  
MIDWEST RESEARCH INST KANSAS CITY MO  
RESEARCH DIRECTED TOWARD THE STUDY OF THE ACCURACIES OF  
ACOUSTIC TEMPERATURE MEASUREMENTS, 1 JUN 1963.  
RY SMITH P L JR  
DDC NUMBER 412479  
INSTRUMENT AF 19<628>00473  
PROJ/TASK 8670 01

AFCL 63 688  
COLORADO U BOULDER  
THE THEORY, DESIGN AND DEVELOPMENT OF AN INTERFEROMETRIC  
SPECTROMETER, 1 JUL 1963.  
RY WILLSON R C  
DDC NUMBER 417763  
INSTRUMENT AF 19<628>00287  
PROJ/TASK 8627 03

AFCL 63 689  
FLORIDA STATE U TALLAHASSEE  
THE POTENTIAL-ENERGY BUDGET OF THE STRATOSPHERE OVER NORTH  
AMERICA DURING THE WARMING OF 1947, 20 JUN 1963.  
RY LATIFF M A  
DDC NUMBER 414644  
INSTRUMENT AF 19<628>00394  
PROJ/TASK 8604 03

AFCL 63 690  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
ENERGETICS OF THE SOLAR SEMIDIURNAL TIDE IN THE ATMOSPHERE  
10 JUL 1963.  
RY JONES W L  
DDC NUMBER 414910  
INSTRUMENT AF 19<628>02408  
PROJ/TASK 8628

AFCL 63 691  
COLUMBIA U NEW YORK N Y  
SHALLOW-WATER PROPAGATION IN THE ARCTIC OCEAN, APR 1963.  
RY HINKINS K  
KUTSCHALF H W  
DDC NUMBER 414919  
INSTRUMENT AF 19<604>07442  
PROJ/TASK 7628 05

AFCL 63 692  
STANFORD U CALIF  
ON A REMARKABLE CORRELATION BETWEEN WHISTLER-MODE  
PROPAGATION AND HF NORTHSCATTER, JUN 1963.  
RY CARPENTER G R  
COLIN L  
DDC NUMBER 418307  
INSTRUMENT AF 19<628>00233  
PROJ/TASK 8653

AFCL 63 693  
COLUMBIA U NEW YORK N Y  
GEOPHYSICAL INVESTIGATION OF ARCTIC ICE PACK, JUN 1963.  
RY KUTSCHALF H W  
FARRAND W R  
INSTRUMENT AF 19<604>07442  
PROJ/TASK 7628 05

AFCL 63 694  
ALLIED RESEARCH ASSOC INC CONCORD MASS  
AN ANALYSIS OF STRATIFORM CLOUD PATTERNS IN THE CANARY  
ISLANDS REGION, 24 JUN 1963.  
RY MERRITT F S  
DDC NUMBER 418187  
INSTRUMENT AF 19<628>00920  
PROJ/TASK 7659 01

AFCL 63 695  
CHALMERS INST OF TECH GOTHENBURG SWEDEN  
DYNAMIC NONLINEAR WAVE PROPAGATION IN IONIZED MEDIA, 4.  
NONLINEAR ELECTROMAGNETIC WAVE PROPAGATION AND HARMONIC  
RADIATION IN MAGNETO-IONIC MEDIA, 1 MAR 1963.  
RY HYDRECE O F M  
DDC NUMBER 419440  
INSTRUMENT AF 61<052>00491  
PROJ/TASK 5961 01

AFCL 63 696  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
SIMPLIFIED DYNAMIC EQUATIONS AND THEIR USE IN THE STUDY  
OF ATMOSPHERIC PREDICTABILITY, APR 1963.  
RY LORENZ F M  
DDC NUMBER 412445  
INSTRUMENT AF 19<604>04969  
PROJ/TASK 862886281

AFCL 63 698  
WELFAR INC FALLS CHURCH VA  
RESEARCH DIRECTED TOWARD THE DEVELOPMENT OF A LOW ENERGY  
ELECTRON GUN, JUN 1963.  
RY INGE D T  
AMBROSE L G  
JONES R C  
DDC NUMBER 418186  
INSTRUMENT AF 19<628>01650  
PROJ/TASK 865886580

AFCL 63 699  
QUEEN'S U BELFAST NORTHERN IRELAND  
THE DIPOLE POLARIZABILITY OF MEMBERS OF THE LITHIUM  
SEQUENCE.  
RY FLANNERY W R  
STEWART A L  
DDC NUMBER 411988  
INSTRUMENT AF-EOAR -0016-61  
PROJ/TASK 765576361

AFCL 63 700  
CONSTOCK AND WESCOTT INC CAMBRIDGE MASS  
THERMAL ANALYSIS OF THE AFCL SCANNING SPECTROMETER FOR  
THE S-47 ORBITING SOLAR OBSERVATORY SATELLITE (OSO-C), 12  
JUL 1963.  
RY OLMRYS L L  
INSTRUMENT AF 19<604>07496  
PROJ/TASK 8688 01

AFCL 63 701  
ST LOUIS U MO  
SEISMIC WAVES GENERATED BY CHEMICAL EXPLOSIONS, 31 JUL  
1963.  
RY KISSLINGER C  
WATERER F J JR  
WEEVILLY T V  
INSTRUMENT AF 19<604>07402

AFCL 63 702  
OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
PRACTICAL COMPUTATION OF GRAVITY AT HIGH ALTITUDES, MAY  
1963.  
RY HEISKAMEN W A  
MORITZ H  
INSTRUMENT AF 19<628>02771  
PROJ/TASK 7600 02

AFCL 63 703  
COLORADO U BOULDER  
RIAZIAL POINTING CONTROL, AUG 1963.  
RY WILSCHAUSEN F C  
INSTRUMENT AF 19<604>06649  
PROJ/TASK 7659 01

AFCL 63 707  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
OBSERVATION AND IDENTIFICATION OF ION DISSOCIATION  
PROCESSES OCCURRING IN THE DRIFT TUBE OF A TOP MASS  
SPECTROMETER, SEP 1963.  
RY MUNT W W JR  
HUFFMAN R F  
MCGEE K F  
PROJ/TASK 7635 03

AFCL 63 708  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
A TIME OF FLIGHT MASS SPECTROMETER ADAPTED FOR STUDYING  
CHARGE TRANSFER, ION DISSOCIATION AND PHOTOIONIZATION, SEP  
1963.  
RY MUNT W W JR  
HUFFMAN R F  
SAARI J  
WASSFL G  
RETTY J  
PAUPPE F  
WYERS W  
FLIEGGE R A  
PROJ/TASK 7635 03

AFCL 63 709  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
CHARGE TRANSFER STUDIES WITH A TIME OF FLIGHT MASS  
SPECTROMETER - CROSS SECTION FOR N<sub>2</sub><sup>+</sup> ON N<sub>2</sub> STR 2650 EV.,  
SEP 1963.  
RY MUNT W W JR  
STENFETT A J  
NOVACK R  
PROJ/TASK 7635 03

AFCL 63 711  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
A SOLUTION TO THE REACTION RATE EQUATIONS IN THE  
ATMOSPHERE BELOW 150 KM, SEP 1963.  
RY KENNEDY T J  
PROJ/TASK 8653 02



AFCL 63 719  
BOSTON COLL CHESTNUT HILL MASS  
ANIMOMETRICAL STUDY OF TROPOSPHERIC RADIONAVE PROPAGATION,  
MAY 1963.  
BY RING R M  
INSTRUMENT AF 19<620>02772  
PROJ/TASK 5631 04

AFCL 63 714  
UPPSALA U SWEDEN  
RESEARCHES OF WHISTLER PHENOMENA.  
BY NORINDER M  
INSTRUMENT AF 61<052>00007  
PROJ/TASK 766176614

AFCL 63 715  
OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
SPECTROSCOPY IN THE FAR INFRARED REGION, SEP 1963.  
BY RYLL E F  
OFTJEN R A  
ROUNTREE R F  
VANCE M F  
INSTRUMENT AF 19<604>004119  
PROJ/TASK 860186033

AFCL 63 716  
CHICAGO U ILL  
AN INVESTIGATION OF THE STRUCTURE OF CLOUD AND WEATHER  
SYSTEMS ASSOCIATED WITH CYCLONES IN THE UNITED STATES,  
SEP 1963.  
BY BRADSHAW F L  
MCCLAIN F P  
OMOTO Y  
RAO G V  
TERNPS F P  
WATSON G F  
INSTRUMENT AF 19<604>07230  
PROJ/TASK 864186410

AFCL 63 717  
CHICAGO U ILL  
AN INVESTIGATION OF PRE-FRONTAL PRECIPITATION ZONES, SEP  
1963.  
BY OMOTO Y  
INSTRUMENT AF 19<604>07230  
PROJ/TASK 864186410

AFCL 63 718  
CHICAGO U ILL  
STUDIES IN WEATHER ANALYSIS AND FORECASTING, SEP 1963.  
BY PETERSSSEN S  
INSTRUMENT AF 19<604>07230  
PROJ/TASK 864186410

AFCL 63 720  
BERLIN FREE U WEST BERLIN WEST GERMANY  
OBJECTIVE ANALYSIS AND FORECASTING OF TOTAL CLOUD AMOUNTS,  
30 JUL 1963.  
BY CLAUS J R  
INSTRUMENT AF 61<052>00544  
PROJ/TASK 6020 04

AFCL 63 721  
ALASKA U COLLEGE  
DISCUSSION OF OUR EARLIER PAPER ON HYDROMAGNETIC  
INTERPRETATION OF SUDDEN COMMENCEMENTS OF MAGNETIC STORMS,  
MAY 1963.  
J GEOPHYS RES 68 10 1914-1920 MAY 1963  
BY WILSON C R  
SUGIURA M  
INSTRUMENT AF 19<604>07988  
PROJ/TASK 8601 04

AFCL 63 722  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
ION DISSOCIATION IN THE DRIFT TUBE OF A TIME-OF-FLIGHT  
MASS SPECTROMETER - II, FIXED FLIGHT-TIME-SHIFT METHOD  
OF IDENTIFYING FRAGMENT IONS, OCT 1963.  
BY HUNT W M JR  
PROJ/TASK 7635 03

AFCL 63 723  
PENNSYLVANIA STATE U UNIVERSITY PARK  
INTERACTION OF NEUTRAL ION STREAMS WITH A MAGNETIC DIPOLE  
FIELD, 20 OCT 1963.  
BY BYRD J W  
INSTRUMENT AF 19<604>04563  
PROJ/TASK 8605 02

AFCL 63 724  
PENNSYLVANIA STATE U UNIVERSITY PARK  
THE DETERMINATION OF THE WORLD-WIDE EFFECTIVE  
RECOMBINATION COEFFICIENT OF THE F-REGION, 1 NOV 1963.  
BY PALLUCONI F D  
INSTRUMENT AF 19<604>04563  
PROJ/TASK 8605 02

AFCL 63 726  
NAPLES U ITALY  
PROPAGATION OF ELECTROMAGNETIC WAVES IN AN INHOMOGENEOUS  
MEDIUM, MAY 1963.  
BY DANIELS G  
INSTRUMENT AF 61<052>00548  
PROJ/TASK 5631 08

AFCL 63 727  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
TURBULENT DISPERSION IN A PIPE FLOW, SEP 1963.  
BY RECKER M A  
ROSENWIG R G  
INSTRUMENT AF 19<604>06181  
PROJ/TASK 860486040

AFCL 63 729  
OXFORD U ENGLAND  
THE NIGHTGLOW SPECTRUM. II. H<sub>2</sub> RADIATION IN THE NIGHT  
SKY, 19 JUL 1962.  
MONTHLY NOTICES ROY ASTRON SOC 124 6 523-532 1962  
BY INGHAM M F  
INSTRUMENT AF-EDAR -0009-61  
PROJ/TASK 860586054

AFCL 63 731  
MANCHESTER U ENGLAND  
A PHOTOELECTRIC SPECTROPHOTOMETER FOR LUMINESCENCE  
INVESTIGATIONS.  
BY GEAKE J F  
LUMB M D  
DDC NUMBER 401091  
INSTRUMENT AF 61<052>00379  
PROJ/TASK 8602 01

AFCL 63 732  
OSLO U NORWAY  
A QUALITATIVE STUDY OF THE VERTICAL CIRCULATION IN FRONTAL  
ZONES, 25 JUN 1963.  
BY TODSEN M  
INSTRUMENT AF 61<052>00525  
PROJ/TASK 864186411

AFCL 63 733  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
RADAR-ECHO RATE FROM SHOWER METEORS, PART II, RANGE  
DISTRIBUTION, JUL 1963.  
BY CONSORTINI A  
DI LANGER M F  
INSTRUMENT AF 61<052>00592  
PROJ/TASK 5631 02

AFCL 63 735  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
OPTICAL PHYSICS LAB L G HANSCOM FIELD MASS  
MOIRE FRINGE MEASURING SYSTEM FOR FAR INFRARED  
INTERFEROMETRIC SPECTROMETER, OCT 1963.  
BY LOEWENSTEIN E V  
PROJ/TASK 8603 03

AFCL 63 737  
ILLINOIS U URBANA  
STUDIES IN ELECTROMAGNETIC WAVE INTERACTION TECHNIQUES,  
31 JAN 1964.  
BY RAO K V N  
GOLDSTEIN L  
INSTRUMENT AF 19<604>03481  
PROJ/TASK 8654 02

AFCL 63 738  
TEXAS U AUSTIN  
BOUNDARY-LAYER WIND MAXIMA AND ASSOCIATED TEMPERATURE  
DISTRIBUTIONS AS OBSERVED ON THE 1400-FOOT TELEVISION  
TOWER NEAR DALLAS, TEXAS 1961-1962, 1 OCT 1963.  
BY JFHN F H  
DURIF S J  
INSTRUMENT AF 19<628>02459  
PROJ/TASK 7655 01

AFCL 63 742  
LIEGE U BELGIUM  
SCATTERING BY COMETARY PARTICLES, 1 OCT 1963.  
BY SWINGS P  
INSTRUMENT AF 61<052>00587  
PROJ/TASK 860587005

AFCL 63 743  
MANCHESTER U ENGLAND  
LUNAR LUMINESCENCE INVESTIGATIONS, JUN 1963.  
BY GRAINGER J F  
INSTRUMENT AF 61<052>01178  
PROJ/TASK 8602 01

AFCL 63 744  
MANCHESTER U ENGLAND  
DEVELOPMENT OF THE LUNAR TOPOGRAPHY INTO SPHERICAL  
HARMONICS, 1 JUN 1963.  
BY GOUDAS C L  
INSTRUMENT AF 61<052>00524  
PROJ/TASK 8654 01

AFCL 63 745  
NORWEGIAN DEFENSE RESEARCH ESTABLISHMENT KJELLER NORWAY  
THE ROCKET RANGE AT ANDOVA, JUN 1963.  
BY LANDMARK R  
INSTRUMENT AF 61<052>00599  
PROJ/TASK 8653

AFCL 63 746  
NORWEGIAN DEFENSE RESEARCH ESTABLISHMENT KJELLER NORWAY  
A DOPPLER TRACKING SYSTEM FOR SMALL ROCKET TRAJECTORIES,  
JUN 1963.  
BY RUFLLAND R  
INSTRUMENT AF 61<052>00599  
PROJ/TASK 8653

AFCL 63 747  
NORWEGIAN DEFENSE RESEARCH ESTABLISHMENT KJELLER NORWAY  
SOME EXPERIMENTAL STUDIES OF THE IONOSPHERIC D-REGION AT  
HIGH LATITUDES, 31 JUL 1963.  
BY HOLT O  
INSTRUMENT AF 61<052>00599  
PROJ/TASK 8653

AFCL 63 748  
NORWEGIAN DEFENSE RESEARCH ESTABLISHMENT KJELLER NORWAY  
EXPERIMENTAL STUDIES OF THE ARCTIC D-REGION, JUN 1963.  
BY LANDMARK R  
INSTRUMENT AF 61<052>00599  
PROJ/TASK 8653

AFCL 63 754  
OSLO U NORWAY  
HYDROGEN LINES IN AURORAL GLOW, 1962.  
BY OHMOLT A  
STOFFERGEN W  
DFRBLUM H  
INSTRUMENT AF 61<052>00252  
PROJ/TASK 766176612

AFCL 63 755  
OSLO U NORWAY  
A STUDY OF THE AURORAL OI FEATURE AT 8446 A, 1962.  
BY HARANG L  
INSTRUMENT AF 61<052>00252  
PROJ/TASK 766176612

AFRL 63 756  
OSLO U NORWAY  
THE DISCHARGE THEORY OF THE NIGHTGLOW EMISSION COI> A  
5577, 1962.  
BY OMMOLT A  
INSTRUMENT AF 6105200292  
PROJ/TASK 766176612

AFRL 63 757  
WALES U COLL ABERYSTWYTH  
SPECTROSCOPIC STUDIES - PART I. THE INFRARED SPECTRUM  
AND STRUCTURE OF SODIUM NITROMETHANE, 30 AUG 1963.  
BY YARWOOD J  
ORVILLE-THOMAS W J  
INSTRUMENT AF 6105200691  
PROJ/TASK 8603 03

AFRL 63 758  
WALES U COLL ABERYSTWYTH  
SPECTROSCOPIC STUDIES - PART II. THE INFRARED SPECTRA  
AND STRUCTURE OF METHOXYACETONITRILE AND METHYL-  
CHLOROMETHYLETHER, 30 AUG 1963.  
BY JONES R G  
ORVILLE-THOMAS W J  
INSTRUMENT AF 6105200691  
PROJ/TASK 8603 03

AFRL 63 759  
MANCHESTER U ENGLAND  
LABORATORY SIMULATION OF LUNAR LUMINESCENCE, AUG 1963.  
BY GAFF J F  
LUMB M D  
DERHAM J  
INSTRUMENT AF 6105200379  
PROJ/TASK 8602 01

AFRL 63 760  
CENTRALE METEOROLOGICA SVIZZERA LOCARNO-MONTE SWITZERLAND  
ON THE BACKSCATTERING OF MIXTURES OF ICE AND WATER, SEP  
1963.  
BY JOSS J  
LIST R  
INSTRUMENT AF 6105200559

AFRL 63 761  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
AFROSPACE INSTRUMENTATION LAB L G HANSCOM FIELD MASS  
EVALUATION OF A VARACTOR DIODE PARAMETRIC AMPLIFIER FOR  
RAWIN SET AN/GMD-2, SEP 1963.  
BY POCS K  
PROJ/TASK 6682 01

AFRL 63 768  
OSLO U NORWAY  
HIGH-RESOLUTION SPECTROMETRY OF ENHANCED SOLAR RADIO  
EMISSION, 1961.  
ASTROPHYS NORVEGICA B 5  
BY FLGAREY O  
INSTRUMENT AF 6105200186  
PROJ/TASK 7649 04

AFRL 63 769  
OSLO U NORWAY  
OSCILLATION BROADENING OF LINES FROM IONIZED ELEMENTS IN  
CELLAR SPECTRA, 1961  
ASTROPHYS NORVEGICA B 1  
BY FRIKSEN G  
INSTRUMENT AF 6105200186  
PROJ/TASK 7649 04

AFRL 63 770  
OSLO U NORWAY  
SEULAR VARIATIONS IN SHORT-LIVED SUNSPOTS, 1962  
ASTROPHYS NORVEGICA B 1  
BY RINGNES T S  
INSTRUMENT AF 6105200186  
PROJ/TASK 7649 04

AFRL 63 771  
OSLO U NORWAY  
DISPERSION RELATIONS IN A FULLY IONIZED HYDROGEN PLASMA,  
1963.  
PROC INTERN CONF IONIZATION PHENOMENA GASES 4TH MUNICH 1961  
BY WYLLER A A  
INSTRUMENT AF 6105200186  
PROJ/TASK 7649 04

AFRL 63 779  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
THE HYDROMAGNETIC WAVE TUBE, NOV 1963.  
BY MURPHY R F  
BRUCE M H  
PROJ/TASK 56116107

AFRL 63 780  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
NEW SHEAR APPARATUS FOR TEMPERATURES OF 1000°C AND  
PRESSURES OF 1000, NOV 1963.  
BY RIECKER R F  
SEIFERT K F  
PROJ/TASK 8652 11

AFRL 63 787  
CENTRO DI STUDIO PER LA FISICA MICROONDE  
FLORENCE ITALY  
RESEARCH ON METEOR TRAIL RECORDS, SEP 1963.  
BY CARRARA N  
CHECCACCI P F  
CONSONINI A  
DE LANGER M F  
RONCHI L  
INSTRUMENT AF 6105200592  
PROJ/TASK 5631 02

AFRL 63 790  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
SEISMIC MODEL IMPACTOR, NOV 1963.  
BY THOMSON J C  
MILL J A  
PROJ/TASK 8652 10

AFRL 63 800  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
PHOTOCHEMICAL AND SPECTRAL PROPERTIES OF CHLOROPHYLLIN,  
MAY 1963.  
BY OSTER G  
MELLEN J S  
BROYDE S R  
INSTRUMENT AF 19062800475  
PROJ/TASK 6694 05

AFRL 63 801  
TECHNISCHE HOCHSCHULE DARMSTADT WEST GERMANY  
THE EFFECT OF DEFORMATION IN THE WIND FIELD ON THE LARGE-  
SCALE HORIZONTAL DISPERSION OF CLUSTERS IN THE ATMOSPHERE,  
30 APR 1963.  
BY DJURIC D  
DDC NUMBER 411501  
INSTRUMENT AF 6105200366  
PROJ/TASK 860486043

AFRL 63 802  
GERMAN WEATHER SERVICE OFFENBACH WEST GERMANY  
TESTS ON NUMERICAL STABILITY OF THE PRIMITIVE EQUATIONS  
USING THE FLIASEN-GRID, 31 MAR 1963.  
BY REISER H  
DDC NUMBER 411447  
INSTRUMENT AF 6105200374  
PROJ/TASK 7673

AFRL 63 803  
HAWAII U HONOLULU  
RESEARCH ON THE METEOROLOGY OF THE TROPICAL PACIFIC AND  
ITS APPLICATIONS, JUN 1963.  
BY LAVOIE R L  
DDC NUMBER 414834  
INSTRUMENT AF 190604007274  
PROJ/TASK 8641 15

AFRL 63 804  
ALLIED RESEARCH ASSOC INC CONCORD MASS  
METEOROLOGICAL SATELLITE SYSTEM ANALYSES, 30 JUN 1963.  
BY HUANG T S  
MERRITT F S  
GLASER A  
DDC NUMBER 411378  
INSTRUMENT AF 190604005582  
PROJ/TASK 669866781

AFRL 63 805  
STANFORD U CALIF  
RADAR DETECTION OF IONIZED NITRIC OXIDE IN THE LOWER  
IONOSPHERE, APR 1963.  
BY COLIN L  
RHOEN A A  
KHELMAN V R  
DDC NUMBER 414362  
INSTRUMENT AF 19060400233  
PROJ/TASK 8651

AFRL 63 806  
UTAH STATE U LOGAN  
OPTICAL RADIATION FROM MISSILE AIR FLOW FIELDS CO> 1 JAN  
1963. SECRET.  
BY BAKER D J  
WOFFINDEN D S  
DDC NUMBER 340260  
INSTRUMENT AF 190604007424  
PROJ/TASK 490449042

AFRL 63 807  
STANFORD U CALIF  
ON THE POWER SCATTERED FROM DENSITY FLUCTUATIONS IN A  
PLASMA, JUN 1963.  
BY MOORCRAFT D R  
DDC NUMBER 414304  
INSTRUMENT AF 190604007436  
INSTRUMENT AF 19062800233  
PROJ/TASK 5629 01

AFRL 63 808  
NORWEGIAN DEFENSE RESEARCH ESTABLISHMENT KJELLER NORWAY  
LONG-RANGE PROPAGATION STUDIES.  
BY FOLVSTAD K  
DDC NUMBER 418333  
INSTRUMENT AF 61052002610  
PROJ/TASK 460366102

AFRL 63 809  
CALIFORNIA U LOS ANGELES  
PHOTOELECTRIC SKYLIGHT POLARIMETER, JUN 1963.  
BY BAO C R N  
SPEERA Z  
DDC NUMBER 413326  
INSTRUMENT AF 190604008080  
PROJ/TASK 7621 03

AFRL 63 811  
ASTRONETIC RESEARCH INC NASHUA N H  
MODEL AIRWAY COLLECTOR PIAS GENERATOR  
BY PARKER G  
DDC NUMBER 413882  
INSTRUMENT AF 190628007426  
PROJ/TASK 8417 01

AFRL 63 812  
SPERRY RAND CORP SPERRY GYROSCOPE CO GREAT NECK N Y  
METHODS OF DETERMINING TRANSITION PROBABILITIES AND  
LEVEL POPULATION DENSITIES BY SELF-ABSORPTION OF  
RADIATION, JUN 1963.  
BY BRISH S F  
ROCHEVOA D P  
INSTRUMENT AF 190628002924  
PROJ/TASK 4645 02

AFRL 63 813  
HAWAII U HONOLULU  
AIR-EARTH INTERFACE CHARACTERISTICS AND THE ATMOSPHERIC  
BOUNDARY LAYER, JUL 1963.  
BY ESTOQUI M A  
YEE W S  
DDC NUMBER 416275  
INSTRUMENT AF 190604007444  
PROJ/TASK 7655 01

AFRL 63 814  
NORTHEASTERN U BOSTON MASS  
A HIGHLY VERSATILE TELEMETRY DATA ACQUISITION SYSTEM,  
30 JUN 1963.  
BY WIRFN J  
DDC NUMBER 416637  
INSTRUMENT AF 19062800942  
PROJ/TASK 7659 01

AFRL 63 815  
TYCO LABS INC WALTHAM MASS  
THE SURFACE BARRIER EFFECT IN PHOTOVOLTAIC CONVERSION,  
MAY 1963.  
BY RUPPRECHT G  
DDC NUMBER 413144  
INSTRUMENT AF 190604008114  
PROJ/TASK 6642 03

AFCL 63 817  
 PENNSYLVANIA STATE U UNIVERSITY PARK  
 SOME FEATURES OF THE F-REGION ELECTRON DENSITY AND HEIGHT  
 VARIATIONS IN THE EQUATORIAL REGIONS, 1 SEP 1963.  
 BY SOMAYAJI, V V DDC NUMBER 414516  
 INSTRUMENT AF 19C604>04563  
 PROJ/TASK 8605 02

AFCL 63 818  
 POLAROID CORP CAMBRIDGE MASS  
 THEORETICAL STUDIES OF INFRARED TARGET DETECTION PROBLEMS,  
 8 JUL 1963.  
 BY JONES R C INSTRUMENT AF 19C604>03903  
 PROJ/TASK 767076703

AFCL 63 819  
 HARVARD U CAMBRIDGE MASS  
 A PERTURBATION METHOD FOR NON-GRAY STELLAR ATMOSPHERES,  
 JUN 1963.  
 ASTROPHYS J 137 3 APR 1963  
 BY KROOK W DDC NUMBER 418077  
 INSTRUMENT AF 19C604>04545  
 PROJ/TASK 863586352

AFCL 63 820  
 CALIFORNIA RESEARCH CORP LA HABRA CALIF  
 THE EFFECT OF SOURCE DEPTH ON RAYLEIGH WAVES, 1 JUL 1963.  
 BY HAKFR W L DDC NUMBER 415946  
 INSTRUMENT AF 19C604>08344  
 PROJ/TASK 8652 06

AFCL 63 821  
 NORTHWESTERN U BOSTON MASS  
 DATA TRANSMISSION AND TRAJECTORY DETERMINING DEVICES FOR  
 RESEARCH ROCKETS AND SATELLITES, 30 JUN 1963.  
 BY ROCHEFORT J S DDC NUMBER 416073  
 O'CONNOR L J INSTRUMENT AF 19C604>03506  
 PRICE C M JR PROJ/TASK 7659 01  
 SIMYS R

AFCL 63 822  
 BASFL U SWITZERLAND  
 ANALYSIS OF THE SPECTRUM OF THE NITRO OXIDE MOLECULE, MAY  
 1963.  
 BY MIESCHER F DDC NUMBER 413003  
 INSTRUMENT AF-EOAR -0019- 1  
 PROJ/TASK 860866872

AFCL 63 823  
 OSLO U NORWAY  
 ON NUMERICAL INTEGRATION OF CERTAIN PARTIAL DIFFERENTIAL  
 EQUATIONS BY MEANS OF THE SO-CALLED IMPROVED EULER-Cauchy METHOD.,  
 27 APR 1963.  
 BY FLITSAFN A DDC NUMBER 411987  
 INSTRUMENT AF 61C052>00525  
 PROJ/TASK 864186415

AFCL 63 824  
 ANKARA U TURKEY  
 RESEARCH ON METEORIC DUST FALLOUT-1 MAY 1962, 30 APR 1963  
 BY KREIKEN F A DDC NUMBER 413016  
 INSTRUMENT AF 61C052>00624  
 PROJ/TASK 869466947

AFCL 63 825  
 CATHOLIC U OF AMERICA WASHINGTON D C  
 LINE SHAPE IN THE WING BEYOND THE BAND HEAD OF THE 4-3 $\mu$   
 BAND OF CO<sub>2</sub>, 1 JUN 1963.  
 BY WINTERS B DDC NUMBER 418020  
 INSTRUMENT AF 19C604>05558  
 PROJ/TASK 7670 03

AFCL 63 826  
 STOCKHOLM U SWEDEN  
 RESEARCH IN NUMERICAL ANALYSIS AND FORECASTING, MAY 1963.  
 DDC NUMBER 413058  
 INSTRUMENT AF 61C052>00346  
 PROJ/TASK 862862800

AFCL 63 829  
 HARVARD U CAMBRIDGE MASS  
 THE TEMPERATURE DISTRIBUTION IN A STELLAR ATMOSPHERE, JUN  
 1963.  
 BY AVRETT F M DDC NUMBER 418072  
 KROOK W INSTRUMENT AF 19C604>04545  
 PROJ/TASK 863586352

AFCL 63 830  
 CHALMERS INST OF TECH GOTHENBURG SWEDEN  
 DYNAMIC NONLINEAR WAVE PROPAGATION IN IONIZED MEDIA, 10.  
 NONLINEAR INTERACTION BETWEEN AN OBLIQUELY INCIDENT PLANE  
 ELECTROMAGNETIC WAVE AND AN ELECTRON BEAM, 1 APR 1963.  
 BY WILHELMSSON K H B DDC NUMBER 415173  
 INSTRUMENT AF 61C052>00651  
 PROJ/TASK 5561 01

AFCL 63 831  
 DENMARK TECHNICAL U COPENHAGEN  
 WHISTLER AND VLF - EMISSIONS FROM SALTOLM-DENMARK,  
 MAR 1963.  
 BY JACKFROTT I M INSTRUMENT AF 61C052>00652  
 TAAGHOLT J PROJ/TASK 7663 06  
 UNGSTRUP F

AFCL 63 832  
 PARIS U FRANCE  
 RESEARCH ON BASIC FAR INFRARED TECHNIQUES, 15 JAN 1963.  
 BY LECONTY J DDC NUMBER 412643  
 MADRI A INSTRUMENT AF 61C052>00137  
 PROJ/TASK 8603 01

AFCL 63 836  
 PENNSYLVANIA STATE U UNIVERSITY PARK  
 THE IONOSPHERIC CONDITIONS, 10 SEP 1963.  
 BY NICOLET M DDC NUMBER 417236  
 SWIDER W JR INSTRUMENT AF 19C604>04563  
 PROJ/TASK 8605 02

AFCL 63 839  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
 UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
 A RE-EXAMINATION OF LORD RAYLEIGH'S DATA ON THE AIRGLOW  
 5577 A OI EMISSION, JUN 1963.  
 BY FERNANDEZ G J DDC NUMBER 416296  
 SILVERMAN S M PROJ/TASK 8627

AFCL 63 836  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
 AFROSPACE INSTRUMENTATION LAB L G HANSCOM FIELD MASS  
 MESOSPHERIC WINDS FROM 23 SUCCESSIVE HOURLY SOUNDINGS,  
 JUL 1963.  
 BY LENHARD R W JR DDC NUMBER 417441  
 WRIGHT J R PROJ/TASK 6683 03

AFCL 63 837  
 OHIO STATE U RESEARCH FOUNDATION COLUMBUS  
 THE DESIGN AND CONSTRUCTION OF A LUMINOUS SHOCK TUBE FOR  
 SPECTROSCOPIC INVESTIGATIONS OF HIGH-TEMPERATURE CASES,  
 PRELIMINARY RESULTS FOR SOME ELEMENTS OF ASTROPHYSICAL  
 INTEREST, JAN 1963.  
 BY RYARD P L INSTRUMENT AF 19C604>04055  
 ROLL R F PROJ/TASK 668366840  
 SLETTERRAK A PROJ/TASK 767076701  
 PROJ/TASK 767076747  
 PROJ/TASK 860386031  
 PROJ/TASK 863586352

AFCL 63 838  
 CALIFORNIA RESEARCH CORP LA HABRA CALIF  
 APPLICATION OF EXACT RAY THEORY  
 TO LAYERED ELASTIC  
 SYSTEMS, 1 JUL 1963.  
 BY SPENCER T W DDC NUMBER 415692  
 INSTRUMENT AF 19C604>08344  
 PROJ/TASK 8652 06

AFCL 63 839  
 RTINA FOUNDATION BOSTON MASS  
 STUDIES OF CERTAIN BIOLOGICALLY IMPORTANT POLYANION-  
 ORGANIC CATION COMPLEXES AS ENERGY TRANSFER SYSTEMS,  
 30 APR 1963.  
 BY BALAZS F A INSTRUMENT AF 19C604>08476  
 SCHUFF D S PROJ/TASK 4769

AFCL 63 840  
 MCGILL U MONTREAL P Q CANADA  
 KINETIC DIVERGENCE AND LARGE-SCALE ENERGY CONVERSION  
 1 JUL 1963.  
 BY EDDY A INSTRUMENT AF 19C604>08431  
 PROJ/TASK 7690 01  
 PROJ/TASK 8604

AFCL 63 841  
 BENDIX CORP BALTIMORE MD  
 CONTINUATION OF THE DEVELOPMENT OF THE AN/DMS-9  
 ROCKETSOUND, JUL 1963.  
 BY KIDD V W INSTRUMENT AF 19C628>01655  
 PROJ/TASK 8670 04

AFCL 63 842  
 RADIO CORP OF AMERICA BURLINGTON MASS  
 GRAVITATIONAL CONSTANT STUDY, 30 JUN 1963.  
 BY MARK R DDC NUMBER 418327  
 MASON J INSTRUMENT AF 19C628>01616  
 NEILMAN M PROJ/TASK 8607 01

AFCL 63 843  
 ALLIED RESEARCH ASSOC INC CONCORD MASS  
 ANALYSES IN THE FIELD OF SATELLITE METEOROLOGY, 31 JUL  
 1963.  
 INSTRUMENT AF 19C628>00120  
 PROJ/TASK 7659 01

AFCL 63 844  
 PENNSYLVANIA STATE U UNIVERSITY PARK  
 SOLAR RADIOFLUX AND UPPER-ATMOSPHERE TEMPERATURE, 1 OCT  
 1963.  
 BY NICOLET M DDC NUMBER 417461  
 INSTRUMENT AF 19C604>04563  
 PROJ/TASK 8605 01  
 PROJ/TASK 8653

AFCL 63 845  
 AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
 AFROSPACE INSTRUMENTATION LAB L G HANSCOM FIELD MASS  
 ERROR ANALYSIS OF THE MODIFIED HUMIDITY-TEMPERATURE  
 MEASURING SET, AN/TMO-11, AUG 1963.  
 BY LENHARD R W JR DDC NUMBER 416341  
 WELLS R D PROJ/TASK 4311

AFCL 63 846  
 LOWELL TECHNOLOGICAL INST RESEARCH FOUNDATION MASS  
 SUPPORT PROGRAM FOR FIELD MEASUREMENT OF MISSILE PLUMES  
 AND BACKGROUNDS, MAY 1963.  
 BY TURNER V D INSTRUMENT AF 19C604>08860  
 POWERS J F PROJ/TASK 490449040  
 RESLOW F C

AFCL 63 847  
 COLUMBIA U NEW YORK N Y  
 RELATIVE FACITATION OF SURFACE WAVES BY FATHOMETERS AND  
 UNDERGROUND EXPLOSIONS IN THE CALIFORNIA-NEVADA REGION,  
 JUN 1963.  
 J GEOPHYS RES 68 11 JUN 1963  
 BY BRINE J INSTRUMENT AF 19C604>07376  
 SPINOSA A PROJ/TASK 8652 01  
 OLIVER J

AFRL 63 866  
GENERAL ELECTRIC CO KING OF PRUSSIA PA  
THE CHEMICAL KINETICS OF ATMOSPHERIC DEIONIZATION, MAR  
1963.  
BY BORTNER W H DDC NUMBER 417113  
INSTRUMENT AF 19C604>08820  
PROJ/TASK 86518632

AFRL 63 869  
FAIRCHILD II CONN  
AN ATTEMPT TO ISOLATE  $\alpha$ -HDI, RADICAL REACTIONS IN THE  
PHOTOCHEMICAL DECOMPOSITION OF ACETONE, DIMETHYL MERCURY,  
N-PROPYL IODINE AND ISO-PROPYL IODIDE, 14 AUG 1963.  
BY VARNERIN P F INSTRUMENT AF 19C604>08806  
PROJ/TASK 8674 01

AFRL 63 860  
MICHIGAN II ANN ARBOR  
NEAR AND TELESEISMIC MEASUREMENTS OF EARTHQUAKES IN  
FOREIGN COUNTRIES, AUG 1963.  
BY DE NOYER J W WILLIS D F WILSON J T  
INSTRUMENT AF 19C604>08809  
PROJ/TASK 8652 07

AFRL 63 852  
WOLF RESEARCH AND DEVELOPMENT CORP WEST CONCORD MASS  
INVESTIGATION OF SPACE PROBE DATA CONDITIONING AND  
BY BRZEZINSKI D P DDC NUMBER 415945  
CONN J INSTRUMENT AF 19C628>01611  
MORRISON D PROJ/TASK 7652 05  
SEXTON J

AFRL 63 851  
BASEL II SWITZERLAND  
ABSORPTION SPECTRUM OF THE NO MOLECULE, 1963.  
HELV PHYS ACTA 36 3 257-268 1963  
BY HURER K P MIESCHER P DDC NUMBER 416061  
INSTRUMENT AF-FOAR -0019-61  
PROJ/TASK 668866872

AFRL 63 854  
OSLO II NORWAY  
STUDIES IN AURORAL SPECTROSCOPY, 30 JUN 1963.  
DDC NUMBER 415356  
INSTRUMENT AF 61C052>00252  
PROJ/TASK 766176612

AFRL 63 855  
UPPSALA II SWEDEN  
EXPERIMENTAL EVIDENCE OF A DIRECTIONAL EVENT DURING  
THE COSMIC RAY STORM, MAY 1963.  
BY TRONCOSO G L DDC NUMBER 415385  
INSTRUMENT AF 61C052>00614  
PROJ/TASK 8600 03

AFRL 63 856  
KIRUNA GEOPHYSICAL OBSERVATORY SWEDEN  
VLF RADIO WAVE PROPAGATION AT HIGH LATITUDES, 25 JUN 1963.  
BY ENGLAND A RIEDER W DDC NUMBER 415146  
INSTRUMENT AF 61C052>00678  
PROJ/TASK 4663 02

AFRL 63 857  
WALES II COLL ABERYSTWYTH  
FORCE CONSTANTS IN BORON TRIMALIDES, 10 JUN 1963.  
BY LADD J A DDC NUMBER 418416  
ORVILLE-THOMAS W J INSTRUMENT AF 61C052>00691  
COX R F PROJ/TASK 8603 03

AFRL 63 858  
WALES II COLL ABERYSTWYTH  
INFRARED DISPERSION STUDIES, PART 1, DICHLORO, DIATOM  
DIFLUOROMETHANE, 10 JUN 1963.  
BY RICHARD W H DDC NUMBER 418433  
ORVILLE-THOMAS W J INSTRUMENT AF 61C052>00691  
PROJ/TASK 8603 03

AFRL 63 859  
WALES II COLL ABERYSTWYTH  
VIBRATIONAL FREQUENCIES AND ELECTRONEGATIVITIES, 10 JUN  
1963.  
BY JONES R G DDC NUMBER 418445  
ORVILLE-THOMAS W J INSTRUMENT AF 61C052>00691  
PROJ/TASK 8603 03

AFRL 63 860  
STANFORD RESEARCH INST MENLO PARK CALIF  
PRELIMINARY EXAMINATION OF DAYTIME RADIATION DATA FROM  
TIROS III CLOUDY REGIONS, AUG 1963.  
BY VIEZIE W DAVIS R A INSTRUMENT AF 19C628>02777  
PROJ/TASK 6698 06

AFRL 63 861  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS METEOROLOGY LAB  
L G HANSCOM FIELD MASS  
AN ANALYSIS OF SOME WIND PROFILES IN THE ATMOSPHERIC  
FRICTION LAYER, AUG 1963.  
BY TAYLOR R J DDC NUMBER 418503  
PROJ/TASK 7655 02

AFRL 63 864  
OBSERVATOIRE DE PARIS MEUDON FRANCE  
POLARIMETRIC OBSERVATIONS OF PLANETS AND SATELLITES, 10  
JUN 1963.  
BY DILLIUS A DDC NUMBER 415325  
INSTRUMENT AF 61C052>00608  
PROJ/TASK 8602 03

AFRL 63 865  
INTERMOUNTAIN WEATHER INC SALT LAKE CITY UTAH  
A STUDY OF THE PHYSICAL THERMODYNAMICAL AND DYNAMICAL  
CAUSES OF LOW CEILINGS AND VISIBILITIES, JUN 1963.  
BY HALES J V ZIMKOWSKI W HENDERSON D  
INSTRUMENT AF 19C604>07331  
PROJ/TASK 864186411

AFRL 63 867  
CAMAN AIRCRAFT CORP COLORADO SPRINGS COLO  
ION-ION AND ELECTRON-ION RECOMBINATION, 1 AUG 1963.  
BY MC DANIEL F W INSTRUMENT AF 19C628>02009  
PROJ/TASK 767376731

AFRL 63 868  
BERLIN FREE II WEST BERLIN WEST GERMANY  
THE RELATIONSHIP BETWEEN TOTAL CLOUD AMOUNTS AND  
OBJECTIVELY DEFINED SYNOPTIC PARAMETERS, 15 FEB 1963.  
BY CLAUSE J R DDC NUMBER 415322  
INSTRUMENT AF 61C052>00544

AFRL 63 869  
KIRUNA GEOPHYSICAL OBSERVATORY SWEDEN  
IONIZATION IN THE D-REGION DURING AURORAL BREAKUP EVENTS,  
31 JUL 1963.  
BY GUSTAFSSON G INSTRUMENT AF 61C052>00288  
PROJ/TASK 8651

AFRL 63 871  
BOSTON COLL CHESTNUT HILL MASS  
DETERMINATION OF THE ORIENTATION OF THE AXIS OF A ROCKET  
OR SATELLITE IN ITS TRAJECTORY OR ORBIT, 16 AUG 1963.  
BY MARCOU R J INSTRUMENT AF 19C604>07304  
PROJ/TASK 8653 02

AFRL 63 873  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
UPPER ATMOSPHERE PHYSICS LAB L G HANSCOM FIELD MASS  
ATMOSPHERIC STRUCTURE AND ITS VARIATIONS IN THE LOWER  
THERMOSPHERE, JUN 1963.  
BY CHAMPION F S W DDC NUMBER 417201  
PROJ/TASK 6690

AFRL 63 874  
HARVARD II CAMBRIDGE MASS  
THE RELATIVE POSITIONS OF SUNSPOTS AND FLARES, SEP 1963.  
BY WOLRACH J G INSTRUMENT AF 19C604>0962  
PROJ/TASK 7669 01

AFRL 63 876  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
TERRESTRIAL SCIENCES LAB L G HANSCOM FIELD MASS  
A COMPENDIUM OF PAPERS IN THE FIELDS OF GEODESY AND  
PLANETARY GEOMETRY PREPARED AT AFRL DURING 1962, AUG  
1963.  
BY WILLIAMS O W PROJ/TASK 7600  
PROJ/TASK 8607  
PROJ/TASK 8654

AFRL 63 878  
COLUMBIA II NEW YORK N Y  
PARTICULAR AGE OF THE TWO CREEKS FOREST RED, WISCONSIN,  
JUN 1963.  
RUELL GENL SOC AM 74 795-802 JUN 1963  
BY HUNTER W C FARRAND W R INSTRUMENT AF 19C604>07462

AFRL 63 880  
WEIZMAN INST OF SCIENCE REHOVOTH ISRAEL  
ON AN INVESTIGATION OF MECHANICS OF RAREFIED GASES, 10  
JUL 1963.  
BY DEFFERIS C L INSTRUMENT AF 61C052>00127  
PROJ/TASK 7635 07

AFRL 63 881  
ISRAEL INST OF TECH HAIFA  
OBSERVATIONS ON NIGHT-SKY CREEKOV RADIATION IN EXTENSIVE  
AIR SHOWERS, 15 MAY 1963.  
BY KACHA H DDC NUMBER 418337  
INSTRUMENT AF 61C052>00196  
PROJ/TASK 860086001

AFRL 63 882  
WEIZMAN INST OF SCIENCE REHOVOTH ISRAEL  
PROPAGATION OF A PULSE IN A FLUID SPHERE, 22 JUL 1963.  
BY ALTERNAN Z DDC NUMBER 416423  
KORNFELD D INSTRUMENT AF 61C052>00509  
PROJ/TASK 865285206

AFRL 63 883  
NORWEGIAN METEOROLOGICAL INST OSLO NORWAY  
LARGE-SCALE SPECTRAL ENERGY CHANGES IN BAROCLINIC MOTIONS,  
BY FJORTOF R DDC NUMBER 416421  
INSTRUMENT AF 61C052>00374  
PROJ/TASK 6020 04

AFRL 63 884  
BONN II WEST GERMANY  
PHOTOCHEMICAL INVESTIGATIONS IN THE FAR ULTRAVIOLET, 14  
MAY 1963.  
BY GROTH W F INSTRUMENT AF-FOAR -0073-62

AFRL 63 884  
AF OAR AIR FORCE CAMBRIDGE RESEARCH LABS  
AFROSPACE INSTRUMENTATION LAB L G HANSCOM FIELD MASS  
DETERMINATION OF PARACHUTE DESCENT TIMES AND IMPACT  
LOCATIONS FOR HIGH ALTITUDE BALLOON PAYLOADS, AUG 1963.  
BY WESS J PROJ/TASK 6665 06

AFRL 63 885  
MCGILL II MONTREAL P Q CANADA  
ICE TRANSPORT BETWEEN GREENLAND AND SPITZBERGEN AND ITS  
CAUSES, JUL 1963.  
BY WAINWRIGHT F INSTRUMENT AF 19C604>07415  
PROJ/TASK 8623 03

AFCL 63 87A  
 EPPLEY LAB INC NEWPORT R I  
 AN EXAMINATION OF THE CHARACTERISTICS OF PYRHeliometers  
 USED TO ESTABLISH STANDARD SCALES OF SOLAR RADIOMETRY  
 AND THE DEVELOPMENT OF IMPROVED INSTRUMENTATION. 26 AUG  
 1963.  
 BY DRUMMOND A J INSTRUMENT AF 19<604>08339  
 PROJ/TASK 521950865

AFCL 63 891  
 LOCKHEED AIRCR FT CORP PALO ALTO CALIF  
 MEASUREMENTS OF ARTIFICIALLY-INJECTED ELECTRONS FROM  
 SATELLITE 1962 BETA KAPPA. AUG 1963.  
 BY SMITH R V INSTRUMENT AF 19<628>02421  
 IMHOFF W L PROJ/TASK 8600 04  
 RAKKE J C  
 REAGAN J R  
 ROWLAND J H

AFCL 63 892  
 WALES U CARDIFF  
 OVERLAP INTEGRALS IN BLOCH ELECTRONS. 13 MAY 1963.  
 BY ANTONCIC F DDC NUMBER 418352  
 LANDSBERG P T INSTRUMENT AF 61<052>00664  
 PROJ/TASK 4645 02

AFCL 63 894  
 WFLPAR INC FALLS CHURCH VA  
 ANALYSIS OF A MULTISENSOR SEISMIC ARRAY TECHNIQUE. 31 JUL  
 1963.  
 BY LINDSTROM L R DDC NUMBER 419179  
 INSTRUMENT AF 19<628>00388  
 PROJ/TASK 8652 07

AFCL 63 895  
 WOLF RESEARCH AND DEVELOPMENT CORP WEST CONCORD MASS  
 ATMOSPHERIC PERTURBATIONS ON NEARLY CIRCULAR SATELLITE  
 ORBITS. 10 JUL 1963.  
 BY OUELLETTE G A DDC NUMBER 418761  
 INSTRUMENT AF 19<628>03258  
 PROJ/TASK 5930 03

AFCL 63 896  
 UTAH STATE U LOGAN  
 LOGARITHMIC MULTICHANNEL RADIOMETER. 1 AUG 1963.  
 BY BAKER D J INSTRUMENT AF 19<604>07423  
 WYATT C L PROJ/TASK 490449040

AFCL 63 897  
 ROYAL SWEDISH ACADEMY OF SCIENCES STOCKHOLM SWEDEN  
 A SHORT DESCRIPTION OF THE AUROREAL PHOTOMETERS AT KIRUNA  
 GEOPHYSICAL OBSERVATORY. 31 JUL 1963.  
 BY GUNSTAFSSON G INSTRUMENT AF 61<052>00288  
 LUNDSTROM J-E PROJ/TASK 8653

AFCL 63 898  
 BRANDEIS U WALTHAM MASS  
 SHOCK RELATIONS IN A DENSE HIGH TEMPERATURE GAS. 21 MAR  
 1963.  
 BY KANG I-J INSTRUMENT AF 19<604>07283  
 GOLDSTEIN J S PROJ/TASK 8608 05

AFCL 63 899  
 BRANDEIS U WALTHAM MASS  
 SMALL AMPLITUDE WAVES AND SCREENING IN DENSE DEGENERATE  
 PLASMA. 24 MAY 1963.  
 BY GOLDSTEIN J S INSTRUMENT AF 19<604>07283  
 PROJ/TASK 8608 05

AFCL 63 900  
 TEXAS U AUSTIN  
 SOLAR RADIATION OF 3.2MM DURING THE 20 JULY 1963 ECLIPSE.  
 8 NOV 1963.  
 BY TOLBERT C W INSTRUMENT AF 19<628>01679  
 KRAUSE L C PROJ/TASK 5629 02  
 STRAITON A W

AFCL 63 906  
 MICHIGAN U ANN ARBOR  
 RAINDROP-SIZE STUDIES. OCT 1963.  
 BY DINGLE A N INSTRUMENT AF 19<628>00281  
 PROJ/TASK 8620 02

# E. Air Force Office of Scientific Research (AFOSR)

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THIOCOL CHEMICAL CORP DENVER CO  
INFLUENCE OF IONS ON ROCKET COMBUSTION. FINAL REPORT.  
MAR 10 1958 TO MAR 21 1963  
BY WOLFGANG H G  
DIMMOCK T H  
DDC NUMBER 296015  
INSTRUMENT AF 49C638D00305  
PROJ/TASK 9752 01
- AFOSR 146  
TEXAS U AUSTIN  
THE REPRESSION/SENSITIZATION SCALE II. CONCURRENT AND  
CONSTRUCT VALIDITY  
J PERSONALITY 29 334/349 SEP 1961  
BY BYRNE D  
INSTRUMENT AF 49C638D00460  
PROJ/TASK 9778 02
- AFOSR 346  
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DDC NUMBER 427956  
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BY CZYZE W  
GOTTFRIED K  
DDC NUMBER 400862  
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GLAUBER R J  
DDC NUMBER 400861  
INSTRUMENT AF 49<638>00589  
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CREAMER L R  
DDC NUMBER 406869  
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DDC NUMBER 408885  
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DDC NUMBER 400069  
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GREGG L W  
DDC NUMBER 414297  
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INSTRUMENT AF/AFOSR /0028/61  
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PHYS REV V128 PP2078/2087 DEC 1962  
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MORRIS A M  
DDC NUMBER 296209  
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MOCH G  
COOPER B  
DDC NUMBER 412440  
INSTRUMENT AF 49<638>00947  
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ASTROPHYS J V157 PP248/279 JAN 1963  
BY SEARLE L  
SARGENT M L  
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DDC NUMBER 406808  
INSTRUMENT AF 49<638>00021  
PROJ/TASK 9776 01

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PROC US NAT CONG APP1 MECH 6TH PP1501/1913 AM SOC MECH  
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BY MOLT M  
YIM B  
MASLACHED G L  
DDC NUMBER 413747  
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CALIFORNIA U BERKELEY  
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DDC NUMBER 288946  
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IN ABSTRACT BIOLOGICAL SYSTEMS  
BULL MATH BIOPHYS V25 PP41/50 1963  
BY ROSEN R  
DDC NUMBER 413695  
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CHICAGO U ILL  
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BULL MATH BIOPHYS V24 PP375/393 1962  
BY ROSEN R  
DDC NUMBER 400859  
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NON/DIFFERENTIABILITY OF ABSOLUTE PROBABILITIES OF MARKOV  
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QUART J MATH OXFORD SER2 V19 PP252/254 1962  
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DDC NUMBER 407898  
INSTRUMENT AF/AFOSR /0171/62  
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 GARRELL M H  
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 DDC NUMBER 297149  
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AFOSRJ 15  
 CARNEGIE INST OF TECH PITTSBURGH PA  
 ETCH PITS AT DISLOCATIONS IN SILVER SINGLE CRYSTALS  
 J APP PHYS 33 3149/3152 NOV 1962  
 BY LEVINESTEIN M J  
 ROBINSON W H  
 DDC NUMBER 297114  
 INSTRUMENT AF 49<638>00551  
 PROJ/TASK 9761 10

AFOSRJ 16  
 GEORGETOWN U WASHINGTON D C  
 VIBRATIONAL CONSTANTS FOR THE GROUND STATE OF H2  
 J CHEM PHYS 37 2732/2733 DEC 1962  
 BY SHAFI M  
 BUCKEL C L  
 DDC NUMBER 297257  
 INSTRUMENT AF/AFOSR /0160/62  
 PROJ/TASK 9767 01

AFOSRJ 18  
 CALIFORNIA U BERKELEY  
 CONCERNING THE NOTION OF TIME INTERVAL IN S/MATRIX THEORY  
 J PHYS REV 127 2282/2286 SEPT 1962  
 BY GOLDBERGER M L  
 DDC NUMBER 400384  
 INSTRUMENT AF/AFOSR /0121/62  
 PROJ/TASK 9767 01

AFOSRJ 19  
 CALIFORNIA U BERKELEY  
 ELEMENTARY DERIVATION OF THE DIELECTRIC CONSTANT OF AN  
 IMPERFECT GAS  
 J CHEM PHYS 36 433/440 JAN 1962  
 BY KAUFMAN A H  
 WATSON K M  
 DDC NUMBER 400385  
 INSTRUMENT AF/AFOSR /0121/62  
 PROJ/TASK 9767 01

AFOSRJ 20  
 CALIFORNIA U BERKELEY  
 THEORY OF COLLECTIVE EXCITATIONS OF SPHERICAL NUCLEI WITH  
 PARTICULAR APPLICATION TO THE GIANT DIPOLE STATE  
 NUCL PHYS 28 270/292 1961  
 BY SAWICKI J  
 SODS T  
 DDC NUMBER 400451  
 INSTRUMENT AF/AFOSR /0121/62  
 PROJ/TASK 9767 01

AFOSRJ 21  
 NORTH CAROLINA U CHAPEL HILL  
 DEFINITION COMMUTATORS VIA UNCERTAINTY PRINCIPLE  
 J MATH PHYS 3 519/524 AUG 1962  
 BY DE WITT B S  
 DDC NUMBER 297258  
 INSTRUMENT AF/AFOSR /0072/61  
 PROJ/TASK 9751 03

AFOSRJ 22  
 STANFORD U CAL  
 SPECTRAL CHARACTERISTICS OF TYPE II SOLAR RADIO BURSTS  
 NATURE 192 58 7 OCT 1961  
 BY STURROCK P A  
 DDC NUMBER 297428  
 INSTRUMENT AF 49<638>00342  
 PROJ/TASK 9767 02

AFOSRJ 23  
 INST FOR ADVANCED STUDY PRINCETON N J  
 EVALUATION PAR DEFAUT DE TOUTES LES FREQUENCES PROPRES D UN  
 MEMBRANE A L AIDE DE COUPURES CHARGES  
 COMPTES RENDUS 255 1286/1288 AUG 1962  
 BY HERSCH J  
 INSTRUMENT AF 49<638>00253  
 PROJ/TASK 9749 02

AFOSRJ 24  
 MINNESOTA U MINNEAPOLIS  
 A FLUCTUATION THEOREM FOR CYCLIC RANDOM VARIABLES  
 ANNALS OF MATH STAT 33 1450/1454 DEC 1962  
 BY DWASS M  
 INSTRUMENT AF 49<638>00877  
 PROJ/TASK 9763

AFOSRJ 25  
 CALIFORNIA U BERKELEY  
 ELECTRON SCATTERING FROM HYDROGEN  
 PHYS REV 124 1468/1471 DEC 1961  
 BY SCHWARTZ C  
 DDC NUMBER 297115  
 INSTRUMENT AF/AFOSR /0121/62  
 PROJ/TASK 9767 01

AFOSRJ 26  
CALIFORNIA U BERKELEY  
STATISTICAL THEORY OF THE DIELECTRIC CONSTANT OF IMPERFECT  
GAS  
PHYS OF FLUIDS 4 931/943 AUG 1961  
BY KAUFMAN A M DDC NUMBER 297116  
WATSON K M INSTRUMENT AF/AFOSR /0121/62  
PROJ/TASK 9767 01

AFOSRJ 27  
HARVARD U CAMBRIDGE MASS  
POLYNOMIALS OF BEST APPROXIMATION ON AN INTERVAL. II  
PROC NATL ACAD OF SCI 48 1533/1537 SEP 1962  
BY WALSH J I DDC NUMBER 297112  
MOTZKIN T S INSTRUMENT AF/AFOSR /0198/62  
PROJ/TASK 9749 02

AFOSRJ 28  
UPPSALA U SWEDEN  
ON THE CRYSTAL STRUCTURE OF HYDRATED SODIUM PEROXOBORATE  
ACTACHEM SCAND 15 934/935 1961  
BY HANSSON A DDC NUMBER 297174  
INSTRUMENT AF 61<052>00040  
PROJ/TASK 9761 02

AFOSRJ 29  
ISTITUTO ELETROTECNICO NAZIONALE TURIN ITALY  
ORIGIN OF THE "FIRST-ORDER STRUCTURE" OF CP4/ETCHED GE  
SURFACES  
J APPL PHYS 31 684/686 APR 1960  
BY BONFIGLIOLI G DDC NUMBER 297151  
FERRO A INSTRUMENT AF 61<052>00328  
MOJONI A PROJ/TASK 9763 02

AFOSRJ 31  
TECHNION RESEARCH AND DEVELOPMENT FOUNDATION HAIFA ISRAEL  
MAGNETIC UNIAXIAL ANISOTROPY IN FILMS AT LIQUID HYDROGEN  
TEMPERATURES FROM ELECTRIC RESISTIVITY MEASUREMENTS IN  
CROSSED MAGNETIC FIELDS  
BUL RSCH COUNCIL ISRAEL APR 1962  
BY HIRSCH A A DDC NUMBER 297276  
FRIEDMAN N INSTRUMENT AF 61<052>00481  
PROJ/TASK 9763 02

AFOSRJ 32  
ASSOCIATION DES AMIS DU LABORATOIRE DE PHYSIQUE (ALPENS)  
PARIS FRANCE  
ABAC CHART FOR FA T CALCULATION OF THE ABSORPTION AND  
REFLECTION COEFFICIENTS  
APPL OPT 1 369/370 MAY 1962  
BY NAZAREWICZ W DDC NUMBER 297143  
ROLLAND P INSTRUMENT AF 61<052>00572  
DA SILVA F PROJ/TASK 9761 03  
BALKANSKI M

AFOSRJ 33  
ISTITUTO ELETROTECNICO NAZIONALE TURIN ITALY  
SURFACE STATES IN METALS  
PHY REV 115 330/335 JULY 1960  
BY BONFIGLIOLI G DDC NUMBER 297150  
MALVANO R INSTRUMENT AF 61<514>01333  
PROJ/TASK 9763 02

AFOSRJ 34  
ISTITUTO ELETROTECNICO NAZIONALE TURIN ITALY  
F AND V CENTERS THERMOLUMINESCENT RECOMBINATION  
PHY REV LETS 1 239 AUG 1960  
BY BONFIGLIOLI G DDC NUMBER 297150  
PROVETTO P INSTRUMENT AF 61<514>01333  
COURTSE C PROJ/TASK 9763 02

AFOSRJ 35  
CALIFORNIA U RIVERSIDE  
MOMENT SINGULARITY EXPANSION FOR THE DENSITY OF STATES  
PHY REV 128 134/138 OCT 1962  
BY CALLAWAY J DDC NUMBER 297117  
HUGGS A J INSTRUMENT AF/AFOSR /0070/61  
PROJ/TASK 9763 02

AFOSRJ 36  
TEXAS U AUSTIN  
A STUDY OF NEODYMIUM SUBSTITUTED YTIUM IRON GARNET  
PHYS - CHEM SOL 23 1105/1110 AUG 1962  
BY RAMSEY T H DDC NUMBER 297117  
STEINFINK M INSTRUMENT AF/AFOSR /0237/62  
WEISS F J PROJ/TASK 9761 02

AFOSRJ 37  
WASHINGTON U ST LOUIS MO  
COULOMB ENERGY OF HEA AND CHARGE DISTRIBUTION OF NUCLEON  
PHYS REV 128 729/733 OCT 1962  
BY OHMURA M DDC NUMBER 297042  
OHMURA M INSTRUMENT AF/AFOSR /0412/62  
PROJ/TASK 9751 02

AFOSRJ 38  
UPPSALA U SWEDEN  
PHOSPHIDES OF THE PLATINUM METALS  
NATURE 185 31/32 JAN 1960  
BY RINDQVIST S DDC NUMBER 297174  
INSTRUMENT AF 61<052>00040  
PROJ/TASK 9761 02

AFOSRJ 39  
MARTIN MARITTA CORP RIAS INC BALTIMORE MD  
THE LIGHT INDUCED EPR SIGNAL OF PHOTOCATALYST P700 II. TWO  
LIGHT EFFECTS  
BIOCHEM AND BIOPHYS RSCH COMM 9 349/3 1962  
BY EDE R DDC NUMBER 297148  
REINFERT H INSTRUMENT AF 49<638>00947  
PROJ/TASK 9777 01

AFOSRJ 40  
ROCHESTER U N Y  
CREATIVE THINKING AND COMPUTING MACHINES IN OPTICAL DESIGN  
J OPTICAL SOC AMER 52 172/176 FEB 1962  
BY HOPKINS R F DDC NUMBER 297116  
SPENCER G INSTRUMENT AF 49<638>00668  
PROJ/TASK 9767 02

AFOSRJ 41  
ROCHESTER U N Y  
THIRD-ORDER AND FIFTH-ORDER ANALYSIS OF THE TRIPLET  
J OPTICAL SOC AMER 52 389/396 APR 1962  
BY HOPKINS R F DDC NUMBER 297252  
INSTRUMENT AF 49<638>00668  
PROJ/TASK 9767 02

AFOSRJ 42  
COLUMBIA U NEW YORK N Y  
PIEHLER'S STRESS FOR AN IDEALIZED CRYSTAL MODEL  
PHYS REV 128 1440/1449 NOV 1962  
BY SANDERS W T DDC NUMBER 297112  
INSTRUMENT AF 49<638>00909  
PROJ/TASK 9761 01

AFOSRJ 43  
CAMBRIDGE U ENGLAND  
THE ELECTRON DISTRIBUTION IN CHROMIUM  
PHIL MAG 7 2059/2064 DEC 1962  
BY COOPER M J DDC NUMBER 297113  
INSTRUMENT AF 61<052>00050  
PROJ/TASK 9761 03

AFOSRJ 44  
INST DE MATEMATICA PURA E APPLICADA RIO DE JANEIRO BRAZIL  
STRUCTURAL STABILITY ON TWO-DIMENSIONAL MANIFOLDS  
TOPOLOGY 1 101/120 1962  
BY PEREIRA M M INSTRUMENT AF/AFOSR /0075/61  
PROJ/TASK 9749 02

AFOSRJ 45  
MCMASTER U HAMILTON ONTARIO CANADA  
ENERGY LOSS IN CONDENSED MATTER OF M1 AND M2 IN THE ENERGY  
RANGE 4 LESS THAN E GREATER THAN 30 KEV  
CANADIAN J OF PHYS 40 1749/1764 1962  
BY VAN WIJGAARDEN A DDC NUMBER 297160  
DUCKWORTH H E INSTRUMENT AF/AFOSR /0033/62  
PROJ/TASK 9751 02

AFOSRJ 46  
NORTHWESTERN U EVANSTON ILL  
FORMATION AND REVERSION OF GUINIER/PRESTON ZONES IN AL7503  
AT 82M  
ACTA METAL 2 43/56 JAN 1963  
BY HERMAN M DDC NUMBER 297259  
COHEN J B INSTRUMENT AF 49<638>00524  
FINE M E PROJ/TASK 9761 03

AFOSRJ 47  
DUKE U DURHAM N C  
NEUROPHYSIOLOGICAL, HUMORAL, AND PERSONALITY FACTORS IN THE  
RESPONSE TO SENSORY DEPRIVATION  
PROC 3RD WORLD CONG IN PSYCHIATRY TORONTO CANADA  
1003/1009 JUNE 1961  
BY COHEN J DDC NUMBER 400093  
SILVERMAN A J INSTRUMENT AF 49<638>00334  
SHAWONIAN R M PROJ/TASK 9779 01

AFOSRJ 48  
WASHINGTON U ST LOUIS MO  
THEORY OF FERMION LIQUID  
PHYS REV 128 943/955 OCT 1962  
BY WU F Y DDC NUMBER 400189  
FEENBERG F INSTRUMENT AF/AFOSR /0412/62  
PROJ/TASK 9751 02

AFOSRJ 49  
MANITOBA U WINNIPEG CANADA  
MATRICES ASSOCIATED WITH THE HITCHCOCK PROBLEM  
J ASSOC FOR COMPUTING MACH 9 409/410 OCT 1962  
BY DULMAGE A L DDC NUMBER 400189  
MENDELSONN N S INSTRUMENT AF/AFOSR /0235/62  
PROJ/TASK 9749 02

AFOSRJ 50  
MANITOBA U WINNIPEG CANADA  
THE EXPONENT OF A PRIMITIVE MATRIX  
CANADIAN MATH BUL 9 241/246 1962  
BY DULMAGE A L DDC NUMBER 400189  
MENDELSONN N S INSTRUMENT AF/AFOSR /0235/62  
PROJ/TASK 9749 02

AFOSRJ 52  
CALIFORNIA U RIVERSIDE  
SPIT/WAVE CONTRIBUTION TO THE SPECIFIC HEAT OF EUS  
PHYS REV LETS 376/377 NOV 1962  
BY MC COLLUM D C DDC NUMBER 400390  
INSTRUMENT AF/AFOSR /0070/61  
PROJ/TASK 9763 02

AFOSRJ 54  
PRINCETON U N J  
TEMPERATURE GENERATED IN ALUMINUM RODS UNDERGOING TORSIONAL  
OSCILLATIONS  
J APPL PHYS 33 3100/3105 OCT 1962  
BY DILLON O W DDC NUMBER 400391  
INSTRUMENT AF/AFOSR /0204/62  
PROJ/TASK 9702 01

AFOSRJ 55  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
LINEARIZED SWIRLING WAVES  
PHYS FLUIDS 5 1027/1032 SEP 1962  
BY STEIGER M M DDC NUMBER 400392  
BLOOM M M INSTRUMENT AF 49<638>00445  
PROJ/TASK 9781 01

AFOSRJ 56  
BUREAU OF MINES BARTLESVILLE OKLA  
COMBUSTION CALORIMETRY OF ORGANIC FLUORINE COMPOUNDS. THE  
HEATS OF COMBUSTION AND FORMATION OF THE DIFLUOROBENZENES,  
4-FLUOROTOLUENE AND N-TRIFLUOROTOLUIC ACID  
J PHYS CHEM 55 1529/1532 AUG 1962  
BY GOOD W D DDC NUMBER 400393  
LACINA J L INSTRUMENT CSO /600/57/4  
SCOTT D W PROJ/TASK 4759  
MCCULLOUGH P

AFOSRJ 57  
DELAWARE U NEWARK  
RELATIONSHIP BETWEEN CERTAIN LATTICE SUMS AND THE MADELUNG  
CONSTANT  
J CHEM PHYS 37 681/682 19 AUG 1962  
BY WOOD R H DDC NUMBER 400083  
INSTRUMENT AF 49<638>01054  
PROJ/TASK 9790 01

AFOSRJ 58  
CAMBRIDGE U ENGLAND  
THE LOGIC OF THE LOCALIZATION OF FUNCTION IN THE CENTRAL  
NERVOUS SYSTEM  
BIOL PROTOTYPES AND SYNTHETIC SYSTEMS PLENUM PRESS N Y  
1 31/53 1962  
BY GREGORY R L DDC NUMBER 400094  
INSTRUMENT AF/EOAR /0013/61  
PROJ/TASK 9778 01

AFOSRJ 59  
CAMBRIDGE U ENGLAND  
VISUAL ILLUSIONS IN SPACE  
NEW SCIENTIST 15 446/449 1960  
BY GREGORY R DDC NUMBER 400095  
INSTRUMENT AF/EOAR /0013/61  
PROJ/TASK 9778 01

AFOSRJ 60  
CALIFORNIA INST OF TECH PASADENA  
CORONAL EVAPORATION AS A POSSIBLE MECHANISM FOR MASS LOSS I  
RED GIANTS  
ASTROPHYSICAL J 132 380/403 SEP 1959  
BY NEYMAN K DDC NUMBER 400376  
INSTRUMENT AF 49<638>00021  
PROJ/TASK 9774 01

AFOSRJ 61  
STANFORD U CAL  
A MODEL FOR THE SOURCES OF THE SLOWLY VARYING COMPONENT OF  
MICROWAVE SOLAR RADIATION  
ASTROPHYSICAL J 136 975/996 NOV 1962  
BY KUKIYAMA T DDC NUMBER 400438  
SRARUP G INSTRUMENT AF 18<603>00053  
PROJ/TASK 9767 02

AFOSRJ 62  
CALIFORNIA U BERKELEY  
THE EMISSION, PULSE/LEVEL INVERSION, AND MODULATION OF  
OPTICAL MASERS  
ADV IN QUANTUM ELECT COLUMBIA PRESS 299/307 1961  
BY SINGER J R INSTRUMENT AF 49<638>00102  
WANG S PROJ/TASK 9767 02

AFOSRJ 63  
CALIFORNIA U BERKELEY  
STIFFNESS OF ELECTRON BEAMS  
J ELECTRONICS AND CONTROL 10 365/373 MAY 1961  
BY PALMER J L INSTRUMENT AF 49<638>00102  
SUSSKIND C PROJ/TASK 9767 02

AFOSRJ 64  
CALIFORNIA U BERKELEY  
STIMULATED SPIN/ECHO MEASUREMENT OF CROSS-RELAXATION IN  
NEUTRON-IRRADIATED CALCITE  
PHYS REV LETS 6 271/275 MAR 1961  
BY WAKLASS L K INSTRUMENT AF 49<638>00102  
WAKABAYASHI J PROJ/TASK 9767 02

AFOSRJ 65  
CALIFORNIA U BERKELEY  
A NEW AUTOMATIC FREQUENCY REGULATION SYSTEM  
IRE TRANS MTT 8 MAR 1960  
BY SINGER J R INSTRUMENT AF 49<638>00102  
PROJ/TASK 9767 02

AFOSRJ 66  
HARVARD U CAMBRIDGE MASS  
APPROXIMATION PAR LES FONCTIONS HOLOMORPHES BORNEES.  
PROBLEME BETA  
MATH PUR ET APPL 213/242 1961  
BY WALSH J L INSTRUMENT AF/AFOSR /0198/62  
PROJ/TASK 9749 02

AFOSRJ 67  
OKLAHOMA U RESEARCH FOUNDATION NORMAN  
COLLISIONAL EXCITATION TRANSFER TO THE 4 D STATE IN HELIUM  
BY MULTIPLE STATE MECHANISM  
PHYS REV 128 1749/1753 NOV 1962  
BY LIN C C DDC NUMBER 400375  
ST JOHN R H INSTRUMENT AF/AFOSR /3067/67  
PROJ/TASK 9767 02

AFOSRJ 68  
CALIFORNIA U BERKELEY  
THIN FILM MAGNETIZATION ANALYSIS  
PROC IRE 47 1237/1244 JULY 1959  
BY CMU K INSTRUMENT AF 49<638>00102  
SINGER J R PROJ/TASK 9767 02

AFOSRJ 70  
YALE U NEW HAVEN CONN  
FORBIDDEN HELIUM LINE IN A PLASMA SPECTRUM  
J QUANT SPECTROSC RADIAT TRANSFER 1 46/52 1960  
BY SADJIAN M DDC NUMBER 400452  
WIMMEL H K INSTRUMENT AF 18<603>00015  
MARGENEAU H PROJ/TASK 9767 01

AFOSRJ 71  
YALE U NEW HAVEN CONN  
SIMULTANEOUS EFFECT OF DOPPLER AND FOREIGN GAS BROADENING O  
SPECTRAL LINES  
PHYS REV 122 1218/1223 MAY 1961  
BY GALTBY L DDC NUMBER 400453  
INSTRUMENT AF 18<603>00015  
PROJ/TASK 9767 01

AFOSRJ 72  
ILLINOIS U URBANA  
MYLAR ELECTRON BEAM WINDOWS  
TRANS OF PROFESSIONAL GRP ON ELECTRON DEVICES 8 436/437  
NOV 1961  
BY STEIER W H DDC NUMBER 400466  
INSTRUMENT AF 18<603>00062  
PROJ/TASK 9767 02

AFOSRJ 73  
ILLINOIS U URBANA  
FEEDING RF POWER FROM A SELF-EXCITED, PULSED SOURCE INTO A  
HIGH-Q RESONANT LOAD  
IRE TRANSMICROWAVE THEORY TECHNIQUES 7 NO 3 391 JUL  
1959  
BY SPUMLER H A DDC NUMBER 400467  
KENYON R J INSTRUMENT AF 18<603>00062  
COLEMAN P D PROJ/TASK 9767 02

AFOSRJ 74  
ILLINOIS U URBANA  
FREQUENCY CONVERSION IN A MICROWAVE DISCHARGE  
PROC OF IRE 49 1890/1900 DEC 1961  
BY RAIRO J R DDC NUMBER 400468  
COLEMAN P D INSTRUMENT AF 18<603>00062  
PROJ/TASK 9767 02

AFOSRJ 75  
STANFORD U CAL  
PHOTOMIXING EXPERIMENTS WITH A RUBY OPTICAL MASER AND A  
TRAVELING-WAVE MICROWAVE PHOTOTUBE  
APPL OPTICS 1 51/53 JAN 1962  
BY MCMURTRY B J DDC NUMBER 400084  
STEGMAN A F INSTRUMENT AF 49<638>00660  
PROJ/TASK 9767 02

AFOSRJ 76  
ILLINOIS U URBANA  
THE DIELECTRIC TUBE RESONATOR, A DEVICE FOR THE GENERATION  
AND MEASUREMENT OF MILLIMETER AND SUBMILLIMETER WAVES  
PROC SYMP ON MILLIMETER WAVES 18 191/222 MAR /APR 195  
BY BACKER R C DDC NUMBER 400085  
COLEMAN P D INSTRUMENT AF 18<603>00062  
PROJ/TASK 9767 02

AFOSRJ 77  
ILLINOIS U URBANA  
ELECTRON BEAM EXCITATION OF A FABRY/PEROT INTERFEROMETER  
J APPL PHYS 32 2055/2066 OCT 1961  
BY SIRKIS M D DDC NUMBER 400386  
STRAIN R J INSTRUMENT AF 18<603>00062  
KUNZ W E PROJ/TASK 9767 02

AFOSRJ 78  
ILLINOIS U URBANA  
DIPOLE MAGNETODYNAMIC FERRITE MODES  
J APPL PHYS 30 1456/1455 SEP 1959  
BY STEIER W H DDC NUMBER 400394  
COLEMAN P D INSTRUMENT AF 18<603>00062  
PROJ/TASK 9767 02

AFOSRJ 79  
ILLINOIS U URBANA  
HIGH POWER GAS DISCHARGE FREQUENCY MULTIPLIER  
PROC OF SYMP ON MILLIMETER WAVES 18 289/300 MAR /APR  
1959  
BY RAIRO J R INSTRUMENT AF 18<603>00062  
COLEMAN P D PROJ/TASK 9767 02

AFOSRJ 80  
GEORGETOWN U WASHINGTON D C  
THEORETICAL VIBRATIONAL ENERGY LEVELS OF H2 ASSOCIATED WITH  
VARIOUS COMBINATIONS OF MOLECULAR/ORBITAL CONFIGURATIONS  
J OF CHEM PHYS 37 1418/1424 OCT 1962  
BY LEFES G M DDC NUMBER 400461  
INSTRUMENT AF/AFOSR /0160/62  
PROJ/TASK 9767 01

AFOSRJ 81  
STEVENS INST OF TECH HOBOKEN N J  
EXPERIMENTAL STUDY OF RAYLEIGH/TAYLOR INSTABILITY IN PLASMA  
PHYS OF FLUIDS 5 1048/1056 SEP 1962  
BY DICKINSON M DDC NUMBER 400469  
BOSTICK M W INSTRUMENT AF 49<638>00156  
DINHARCO J N PROJ/TASK 9768  
KOSLOV S

AFOSRJ 82  
OXFORD U ENGLAND  
DEPENDANCE OF POWER RADIATED ON BEAM CURRENT IN A MAGNETIC  
UNDULATOR  
J APPL PHYS 33 976/981 MAR 1962  
BY MOTZ M INSTRUMENT AF/EOAR /0062/62  
WALSH D PROJ/TASK 9767 02

AFOSRJ 86  
 PARIS U FRANCE  
 CRISTALLOPRAPMIA  
 COMP RENDUS 295 319/321 JUL 1962  
 BY LEVELUT M A DDC NUMBER 400096  
 LAMBERT M INSTRUMENT AF/AFOSR /0051/62  
 GUINIER M A PROJ/TASK 9761 03

AFOSRJ 85  
 COLUMBIA U NEW YORK N Y  
 DETECTION OF THE MICROWAVE V27/LINE OF MOLECULAR OXYGEN  
 PRODUCED IN THE HIGH ATMOSPHERE  
 NATURE 195 30/52 JUL 1962  
 BY KAMAN W DDC NUMBER 400457  
 INSTRUMENT AF/AFOSR /0050/62  
 PROJ/TASK 9767 02

AFOSRJ 84  
 COLUMBIA U NEW YORK N Y  
 OPTICAL DOUBLE PHOTON ABSORPTION IN CESIUM VAPOR  
 PHYS REV LTRS 9 453/455 DEC 1962  
 BY ABELLA I D DDC NUMBER 400456  
 INSTRUMENT AF/AFOSR /0049/62  
 PROJ/TASK 9767

AFOSRJ 87  
 COLUMBIA U NEW YORK N Y  
 OPTICAL HARMONIC FREQUENCY RATIO MEASUREMENTS  
 PROC OF IRE 90 AUG 1962  
 BY ABELLA I D DDC NUMBER 400455  
 INSTRUMENT AF/AFOSR /0049/62  
 PROJ/TASK 9768

AFOSRJ 88  
 GEORGIA INST OF TECH ATLANTA  
 SOURCE OF THERMAL IONS FOR USE IN GASES AT HIGH PRESSURES  
 REV OF SCIENTIFIC INSTRUMENTS 31 640 JUN 1960  
 BY MCDANIEL E W DDC NUMBER 400059  
 MARTIN D W INSTRUMENT AF 18<600>0192A  
 PROJ/TASK 9767 02

AFOSRJ 89  
 GEORGIA INST OF TECH ATLANTA  
 ON THE POSSIBLE OCCURRENCE OF H-3 IN INTERSTELLAR SPACE  
 ASTROPHYSICAL J 134 1012/1013 NOV 1961  
 BY MARTIN D W DDC NUMBER 400067  
 MCDANIEL E W INSTRUMENT AF 49<638>0106A  
 WEEKS M L PROJ/TASK 9767 02

AFOSRJ 90  
 CATHOLIC U OF AMERICA WASHINGTON D C  
 LINE SHAPE OF ULTRAVIOLET ABSORPTION IN SOLID NOBLE GASES  
 J OF CHEM PHYS 34 2078/2082 JUNE 1961  
 BY MEIJER P M DDC NUMBER 400132  
 INSTRUMENT AF 49<638>0045Z  
 PROJ/TASK 9767 01

AFOSRJ 91  
 CATHOLIC U OF AMERICA WASHINGTON D C  
 RELAXATION PHENOMENA IN AN ISING SPIN SYSTEM  
 J PHYS SOC OF JAPAN 17 78/80 1962  
 BY TANAKA T DDC NUMBER 400133  
 MEIJER P M E INSTRUMENT AF 49<638A>0045Z  
 PROJ/TASK 9767 01

AFOSRJ 92  
 CATHOLIC U OF AMERICA WASHINGTON D C  
 DYNAMIC BEHAVIOR OF A SET OF WEAKLY COUPLED ISING SPINS  
 J MATH PHYS 3 793/797 JULY / AUG 1962  
 BY MEIJER P M DDC NUMBER 400099  
 TANAKA T INSTRUMENT AF 49<638>0045Z  
 BARRY J H PROJ/TASK 9767 01

AFOSRJ 93  
 CATHOLIC U OF AMERICA WASHINGTON D C  
 THEORY OF RELAXATION PHENOMENA NEAR THE SECOND/ORDER  
 PHASE/TRANSITION POINT  
 J OF CHEM PHYS 37 1397/1402 OCT 1962  
 BY TANAKA T DDC NUMBER 400097  
 MEIJER P M E INSTRUMENT AF 49<638A>0045Z  
 BARRY J H PROJ/TASK 9767 01

AFOSRJ 94  
 CALIFORNIA INST OF TECH PASADENA  
 RADIANT ENERGY EMISSION FROM EXCITED HARMONIC OSCILLATORS  
 J OF CHEM PHYS 32 617/618 FEB 1960  
 BY PENNER S S DDC NUMBER 400064  
 INSTRUMENT AF 18<603>0000Z  
 PROJ/TASK 9767 02

AFOSRJ 96  
 CALIFORNIA INST OF TECH PASADENA  
 TEMPERATURE MEASUREMENTS ON THE OM2 SIGMA 211 BAND SYSTEM  
 FOR A TRANSPARENT GAS IN A SHOCK TUBE  
 J QUANT SPECTROSC RADIAT TRANSFER 2 301/303 JUNE 1961  
 BY WATSON R DDC NUMBER 400061  
 INSTRUMENT AF 49<638>0098A  
 PROJ/TASK 9767 02

AFOSRJ 98  
 CALIFORNIA INST OF TECH PASADENA  
 A PRELIMINARY STUDY OF NEUTRAL TITANIUM EMISSION BEHIND  
 REFLECTED SHOCK WAVES IN TICL4 /AR MIXTURES  
 J QUANT SPECTROSC RADIAT TRANSFER 2 245/246  
 NOV 1961  
 BY SHACKLEFORD W L DDC NUMBER 400062  
 INSTRUMENT AF 49<638>0098A  
 PROJ/TASK 9767 02

AFOSRJ 99  
 JOHNS HOPKINS U BALTIMORE MD  
 EMISSION SPECTRA OF THE DOUBLY AND TRIPLY IONIZED RARE  
 EARTHS  
 J OPTICAL SOC OF AMER 51 820/827 AUG 1961  
 BY DIEKE G H DDC NUMBER 400063  
 CROSSWHITE M H INSTRUMENT AF 49<638>0053S  
 DUNN R PROJ/TASK 9767 02

AFOSRJ 100  
 JOHNS HOPKINS U BALTIMORE MD  
 STRUCTURE OF FN CONFIGURATIONS. II. P5 AND P9 CONFIGURATION  
 J OF CHEM PHYS 36 2301/2311 MAY 1962  
 BY WYBOURNE B G DDC NUMBER 400169  
 INSTRUMENT AF 49<638>0053S  
 PROJ/TASK 9767 02

AFOSRJ 101  
 JOHNS HOPKINS U BALTIMORE MD  
 STRUCTURE OF FN CONFIGURATIONS. I. CALCULATION OF THE ENERGY  
 LEVELS  
 J CHEM PHYS 36 2293/2300 MAY 1962  
 BY WYBOURNE B G DDC NUMBER 400129  
 INSTRUMENT AF 49<638>0053S  
 PROJ/TASK 9767 02

AFOSRJ 102  
 JOHNS HOPKINS U BALTIMORE MD  
 INTENSITIES OF CRYSTAL SPECTRA OF RARE/EARTH IONS  
 J OF CHEM PHYS 37 911/920 AUG 1962  
 BY OFELY G S DDC NUMBER 400174  
 INSTRUMENT AF 49<638>0053S  
 PROJ/TASK 9767 02

AFOSRJ 103  
 JOHNS HOPKINS U BALTIMORE MD  
 TIME/RESOLVED SPECTRA OF RARE/EARTH IONS  
 J OPTICAL SOC OF AMER 52 649/655  
 BY MOVIS W A DDC NUMBER 400070  
 INSTRUMENT AF 49<638>0053S  
 PROJ/TASK 9767 02

AFOSRJ 104  
 WAYNE STATE U DETROIT MICH  
 ENERGY GAP AND CRITICAL FIELD OF SUPERCONDUCTING MOLYBDENUM  
 OBTAINED BY ULTRASONIC MEASUREMENTS  
 PHYS REV LTRS 9 313/314 OCT 1962  
 BY MORWITZ M H DDC NUMBER 400454  
 BOMH M V INSTRUMENT AF/AFOSR /0379/62  
 PROJ/TASK 9761 03

AFOSRJ 105  
 CALIFORNIA U LA JOLLA  
 ENHANCEMENT OF HYDRODYNAMIC STABILITY BY MODULATIONS  
 PHYS REV LTRS 9 363/365 NOV 1962  
 BY DONNELLY R J DDC NUMBER 400465  
 REIF F INSTRUMENT AF 49<638>0103B  
 SUML M PROJ/TASK 9761 01

AFOSRJ 106  
 MCMASTER U HAMILTON ONTARIO CANADA  
 CORROSION OF IRON/BACE ALLOYS AT HIGH TEMPERATURES  
 CANADIAN MINING METALLURGICAL BUL 65 367/372 1962  
 BY SMELTZER W M DDC NUMBER 400425  
 INSTRUMENT AF/AFOSR /0108/61  
 PROJ/TASK 9763 01

AFOSRJ 107  
 WESTERN ONTARIO U LONDON CANADA  
 ALLOWED TRANSITIONS  
 ATOMIC AND MOLECULAR PROCESSES ACADEMIC PRESS INC  
 N Y C 1962  
 BY NICHOLLS R M DDC NUMBER 400463  
 STEWART A L INSTRUMENT AF/AFOSR /0088/61  
 PROJ/TASK 9767 02

AFOSRJ 108  
 WESTERN ONTARIO U LONDON CANADA  
 THE 12763 A 60.96 BAND OF THE O2 SCHUMANN/RUNGE SYSTEM  
 J ATMOSPHER AND TERRESTRIAL PHYS 21 213/215 1961  
 BY NICHOLLS R M DDC NUMBER 400464  
 INSTRUMENT AF 49<638>00640  
 PROJ/TASK 9767 02

AFOSRJ 109  
 WESTERN ONTARIO U LONDON CANADA  
 D/WAVE CONTRIBUTION TO ELECTRON/HYDROGEN ATOM SCATTERING  
 CANADIAN J PHYS 38 317/320 1960  
 BY MCEACHRAN R P DDC NUMBER 400184  
 FRASER P A INSTRUMENT AF 49<638>00640  
 PROJ/TASK 9767 02

AFOSRJ 110  
 WESTERN ONTARIO U LONDON CANADA  
 FRANCK/CONDON FACTORS AND R/CENTROIDS FOR SOME BANDS OF THE  
 SiO A1 11/X1 SIGMA - BAND SYSTEM  
 CANADIAN J PHYS 39 1215/1216 1961  
 BY MCGREGOR A T DDC NUMBER 400185  
 NICHOLLS R M INSTRUMENT AF 49<638>00640  
 JARMAIN W R PROJ/TASK 9767 02

AFOSRJ 111  
 WESTERN ONTARIO U LONDON CANADA  
 FRANCK/CONDON FACTORS AND R/CENTROIDS TO HIGH QUANTUM  
 NUMBERS FOR BANDS OF THE 2112/A211U SYSTEM OF N-2  
 CANADIAN J PHYS 40 523/527 1962  
 BY NICHOLLS R M DDC NUMBER 400183  
 INSTRUMENT AF/AFOSR /0088/61  
 PROJ/TASK 9767 02

AFOSRJ 112  
 WESTERN ONTARIO U LONDON CANADA  
 FRANCK/CONDON FACTORS AND R/CENTROIDS FOR SOME BANDS OF THE  
 CO FOURTH POSITIVE G4111/X1 SIGMA BAND SYSTEM  
 CANADIAN J PHYS 38 310/312 1960  
 BY JARMAIN W R DDC NUMBER 400441  
 EBISVLAKI R INSTRUMENT AF 49<638>00640  
 NICHOLLS R M PROJ/TASK 9767 02

AFOSRJ 113  
 WESTERN ONTARIO U LONDON CANADA  
 INTENSITY MEASUREMENTS IN EMISSION ON 29 BANDS OF THE O2  
 SCHUMANN/RUNGE SYSTEM  
 PROC PHYS SOC 78 1024/1037 1961  
 BY HEBERT G R DDC NUMBER 400054  
 NICHOLLS R M INSTRUMENT AF 49<638>00640  
 PROJ/TASK 9767 02

APOSJ 114  
WESTERN ONTARIO U LONDON CANADA  
MEASUREMENTS OF ROTATIONAL ENERGY DISTRIBUTIONS IN IONIC  
COLLISIONS  
PROC PHYS SOC 78 588/593 1961  
BY REAVES E M  
NICHOLLS R W  
DDC NUMBER 400055  
INSTRUMENT AF/AFOSR /0236/62  
PROJ/TASK 9767 02

APOSJ 115  
WESTERN ONTARIO U LONDON CANADA  
OPTICAL EXCITATION OF N2 BY 0.5 TO 1.5 MEV HYDROGENIC IONS  
PROC PHYS SOC 71 217/222 1960  
BY REEVES F M  
NICHOLLS R W  
BROMLEY D A  
DDC NUMBER 400056  
INSTRUMENT AF/AFOSR /0236/62  
PROJ/TASK 9767 02

APOSJ 117  
WESTERN ONTARIO U LONDON CANADA  
CONDON PARABOLAE IN MOLECULAR SPECTRA  
NATURE 193 966/967 MAR 1962  
BY NICHOLLS R W  
DDC NUMBER 400195  
INSTRUMENT AF/AFOSR /0236/62  
PROJ/TASK 9767 02

APOSJ 118  
WESTERN ONTARIO U LONDON CANADA  
AN F66 LITTROW GRATING SPECTROGRAPH  
J OPTICAL SOC OF AMER 51 353/355 MAR 1961  
BY FALLOMA J P  
FERGUSON I S  
NICHOLLS R W  
DDC NUMBER 400196  
INSTRUMENT AF/AFOSR /0236/62  
PROJ/TASK 9767 02

APOSJ 119  
ROCHESTER U N Y  
THE MEASURES OF BANDWIDTH AND COHERENCE TIME IN OPTICS  
PROC PHYS SOC 80 894/897 1962  
BY MANDEL L  
WOLF E  
DDC NUMBER 400078  
INSTRUMENT AF/AFOSR /0246/62  
PROJ/TASK 9767 02

APOSJ 120  
SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
ELECTROMAGNETIC RADIATION FROM AN ELECTRIC DIPOLE IN A COLD  
ANISOTROPIC PLASMA  
PHYS OF FLUIDS 9 1099/1103 SEP 1962  
BY KUOHL M W  
DDC NUMBER 400447  
INSTRUMENT AF/AFOSR /0252/62  
PROJ/TASK 9768

APOSJ 121  
CALIFORNIA INST OF TECH PASADENA  
AN ANALYSIS OF THE ABSOLUTE ENERGY DISTRIBUTION IN THE  
SPECTRUM OF SU DRACONIS  
ASTROPHYSICAL J 135 393/407 SEP 1962  
BY OKE J B  
GIVER L P  
SEARLE L  
DDC NUMBER 400448  
INSTRUMENT AF/AFOSR /0252/62  
PROJ/TASK 9774 01

APOSJ 122  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
ELECTROHYDRODYNAMIC SURFACE RESONATORS  
PHYS OF FLUIDS 5 1130/1131 SEP 1962  
BY MELCHER J R  
DDC NUMBER 400079  
INSTRUMENT DA/36/039/5C/78100  
PROJ/TASK 4751

APOSJ 123  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
PRECISE CRITICAL FIELD MEASUREMENTS OF SUPERCONDUCTING SN  
FILMS IN THE LONDON LIMIT  
PHYS REV 127 2038/2043 15 SEP 1962  
BY DOUGLASS D M  
BLUMBERG R M  
DDC NUMBER 400080  
INSTRUMENT DA/36/039/5C/78100  
PROJ/TASK 4751

APOSJ 124  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
SELF-DIFFUSION AND IMPURITY/CONTROLLED PROTON RELAXATION IN  
LIQUID ETHANE  
J CHEM PHYS 37 1108/1191 15 SEP 1962  
BY GAYEN J V  
STOCKMAYER W M  
WAUGH J S  
DDC NUMBER 400082  
INSTRUMENT DA/36/039/5C/78100  
PROJ/TASK 4751

APOSJ 125  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
ELECTROHYDRODYNAMIC AND MAGNETOHYDRODYNAMIC NONLINEAR  
SURFACE WAVES  
PHYS FLUIDS 5 1037/1043 SEP 1962  
BY MELCHER J R  
DDC NUMBER 400081  
INSTRUMENT DA/36/039/5C/78100  
PROJ/TASK 4751

APOSJ 126  
OKLAHOMA U RESEARCH FOUNDATION NORMAN  
SYSTEM FOR PROCESSING AND RECORDING EXCITATION FUNCTION DAT  
REV SCIENTIFIC INFO 33 1089/1094 OCT 1962  
BY ST JOHN R M  
LIN C C  
STANTON R L  
WEST H D  
SWEENEY J P  
RINEHART F A  
DDC NUMBER 400190  
INSTRUMENT AF/AFOSR /0067/62  
PROJ/TASK 9767 02

APOSJ 127  
CALIFORNIA U BERKELEY  
THE DEFINITION OF FIELD OF DEFINITION  
BUL SOC MATH MEXICANA 39/46 1962  
BY ROSENBLICH M  
DDC NUMBER 400449  
INSTRUMENT AF/AFOSR /0060/62  
PROJ/TASK 9749 02

APOSJ 129  
INST FOR ADVANCED STUDY PRINCETON N J  
ASYMPTOTIC BEHAVIOR OF SOLUTIONS OF HYPERBOLIC INEQUALITIES  
BUL AMER MATH SOC 68 523/525 SEP 1962  
BY PROTTER M H  
DDC NUMBER 400191  
INSTRUMENT AF/AFOSR /0253/62  
PROJ/TASK 9749 02

APOSJ 130  
SYRACUSE U N Y  
CIRCUIT FOR NOISE REDUCTION IN A MAGNETIC SUSPENSION BALANC  
REV OF SCIENTIFIC INSTRUMENTS 33 1126/1127 OCT 1962  
BY TRISCHKA J W  
DDC NUMBER 400192  
INSTRUMENT AF/AFOSR /0023/60  
PROJ/TASK 9767

APOSJ 131  
ROCHESTER U N Y  
GROWTH OF FLUCTUATIONS IN A UNIFORMLY CONTRACTING OR  
EXPANDING CLOUD  
ASTROPHYSICAL J 136 609/614 SEP 1962  
BY SAVEDOFF M P  
VILA S  
DDC NUMBER 400193  
INSTRUMENT AF/AFOSR /0005/62  
PROJ/TASK 9774 01

APOSJ 133  
ROCHESTER U N Y  
THE CRAB AND CYGNUS A AS GAMMA RAY SOURCES  
IL NUOVO CIMENTO 18 127/18 1959  
BY SAVEDOFF M P  
DDC NUMBER 400194  
INSTRUMENT AF/AFOSR /0005/62  
PROJ/TASK 9774 01

APOSJ 134  
DUKE U DURHAM N C  
ELECTRON SPIN RESONANCE OF GRAMMA/IRRADIATED SINGLE  
CRYSTAL OF ACETYL/L/Glutamic ACID  
J OF CHEM PHYS 37 2143/2146 NOV 1962  
BY KATAYAMA M  
DDC NUMBER 400396  
INSTRUMENT AF/AFOSR /0327/62  
PROJ/TASK 9767 02

APOSJ 135  
MICHIGAN STATE U EAST LANSING  
SYMMETRY PROPERTIES OF THE ASYMMETRIC/ROTATOR  
CENTRIFUGAL/DISTORTION CONSTANTS  
J OF CHEM PHYS 37 1596/1599 OCT 1962  
BY PARKER P M  
DDC NUMBER 400186  
INSTRUMENT AF/AFOSR /0089/62  
PROJ/TASK 9767 01

APOSJ 136  
CALIFORNIA U BERKELEY  
VARIATIONAL CALCULATIONS OF SCATTERING  
ANNAL OF PHYS 16 36/50 1961  
BY SCHWARTZ C  
DDC NUMBER 400187  
INSTRUMENT AF/AFOSR /0121/62  
PROJ/TASK 9767 01

APOSJ 137  
CALIFORNIA U BERKELEY  
PIOM RESONANCES  
PHYS REV 128 849/858 OCT 1962  
BY ZACHARIASFM F  
ZEMACH C  
DDC NUMBER 400188  
INSTRUMENT AF/AFOSR /0121/61  
PROJ/TASK 9767 01

APOSJ 138  
CALIFORNIA U BERKELEY  
IMPORTANCE OF ANGULAR CORRELATIONS BETWEEN ATOMIC ELECTRONS  
PHYS REV 126 1019/1019 MAY 1962  
BY SCHWARTZ C  
DDC NUMBER 400077  
INSTRUMENT AF/AFOSR /0121/62  
PROJ/TASK 9767 01

APOSJ 139  
CALIFORNIA INST OF TECH PASADENA  
HEATING OF STELLAR CHROMOSPHERE BY SMOCK WAVES  
ASTROPHYSICAL J 132 452/460 SEP 1960  
BY HAYNANN R  
DDC NUMBER 400450  
INSTRUMENT AF/AFOSR /0002/62  
PROJ/TASK 9774 01

APOSJ 141  
UPPSALA U SWEDEN  
EXPERIMENTAL STUDIES OF THE ELECTROMAGNETIC TRANSITIONS  
FROM THE FIRST EXCITED STATES IN MF 177, LU 175, AND LU 177  
ARKIV FOR FYSIK 23 341/354 1962  
BY LINDSKOG T  
SUNDSTROM T  
SPARRMAN P  
DDC NUMBER 400381  
INSTRUMENT AF/EOAR /0123/62  
PROJ/TASK 9751 02

APOSJ 142  
YALE U NEW HAVEN CONN  
SCATTERING APPROXIMATION FOR LONG RANGE FORCES  
PHYS REV LETS 9 392/396 NOV 1962  
BY GREIDER E R  
DDC NUMBER 400380  
INSTRUMENT AF/AFOSR /0042/62  
PROJ/TASK 9751 02

APOSJ 143  
LONDON U IMPERIAL COLL OF SCIENCE AND TECH ENGLAND  
DISPERSION THEORY OF THE DEUTERON FORM FACTOR AND ELASTIC  
E/D SCATTERING  
IL NUOVO CIMENTO 27 1039 FEB 1963  
BY JONES M P  
DDC NUMBER 400090  
INSTRUMENT AF/ENAR /0087/62  
PROJ/TASK 9751 01

APOSJ 144  
MICHIGAN STATE U EAST LANSING  
COMPUTATION OF ASYMMETRIC ROTATOR CONSTANTS FROM ENERGY  
MOMENTS. IV  
J OF CHEM PHYS 37 2615/2618 DEC 1962  
BY GENUSA V A  
PARKER P M  
DDC NUMBER 400378  
INSTRUMENT AF/AFOSR /0375/62  
PROJ/TASK 9767 01

APOSJ 145  
WASHINGTON U ST LOUIS MO  
EFFECTS OF ION ASSOCIATION ON RATES OF OXIDATION/REDUCTION  
TRANSFER REACTIONS IN THE NAPHTHALENE/NAPHTHALDIDE SYSTEMS  
J AMER CHEM SOC 84 4408/4410 1962  
BY ZANDSTRA P J  
WEISSMAN  
INSTRUMENT AF/AFOSR /0365/62  
PROJ/TASK 9767 01



AFOSRJ 84  
PARIS U FRANCE  
CRYSTALLOGRAPHY  
COMP RENDUS 255 319/321 JUL 1962  
BY LEVELUT M A DDC NUMBER 400096  
LAMBERT M INSTRUMENT AF/EOAR /0051/62  
GUINIER M A PROJ/TASK 9761 03

AFOSRJ 85  
COLUMBIA U NEW YORK N Y  
DETECTION OF THE MICROWAVE V27/LINE OF MOLECULAR OXYGEN  
PRODUCED IN THE HIGH ATMOSPHERE  
NATURE 195 30/32 JUL 1962  
BY KAMAN W DDC NUMBER 400457  
INSTRUMENT AF/AFOSR /0050/62  
PROJ/TASK 9767 02

AFOSRJ 86  
COLUMBIA U NEW YORK N Y  
OPTICAL DOUBLE PHOTON ABSORPTION IN CESIUM VAPOR  
PHYS REV LETS 9 493/495 DEC 1962  
BY ABELLA I D DDC NUMBER 400456  
INSTRUMENT AF/AFOSR /0049/62  
PROJ/TASK 9767

AFOSRJ 87  
COLUMBIA U NEW YORK N Y  
OPTICAL HARMONIC FREQUENCY RATIO MEASUREMENTS  
PROC OF IRE 40 AUG 1962  
BY ABELLA I D DDC NUMBER 400455  
INSTRUMENT AF/AFOSR /0049/62  
PROJ/TASK 9768

AFOSRJ 88  
GEORGIA INST OF TECH ATLANTA  
SOURCE OF THERMAL IONS FOR USE IN GASES AT HIGH PRESSURES  
REV OF SCIENTIFIC INSTRUMENTS 31 680 JUN 1960  
BY MCDANIEL E W DDC NUMBER 400059  
MARTIN D W INSTRUMENT AF 18<600>01524  
PROJ/TASK 9767 02

AFOSRJ 89  
GEORGIA INST OF TECH ATLANTA  
ON THE POSSIBLE OCCURRENCE OF H-3 IN INTERSTELLAR SPACE  
ASTROPHYSICAL J 134 1012/1013 NOV 1961  
BY MARTIN D W DDC NUMBER 400067  
MCDANIEL E W INSTRUMENT AF 49<638>01064  
MEERS M L PROJ/TASK 9767 02

AFOSRJ 90  
CATHOLIC U OF AMERICA WASHINGTON D C  
LINE SHAPE OF ULTRAVIOLET ABSORPTION IN SOLID NOBLE GASES  
J OF CHEM PHYS 34 2078/2082 JUNE 1961  
BY MEIJER P H DDC NUMBER 400132  
INSTRUMENT AF 49<638>00452  
PROJ/TASK 9767 01

AFOSRJ 91  
CATHOLIC U OF AMERICA WASHINGTON D C  
RELAXATION PHENOMENA IN AN ISING SPIN SYSTEM  
J PHYS SOC OF JAPAN 17 78/80 1962  
BY TANAKA T DDC NUMBER 400133  
MEIJER P H E INSTRUMENT AF 49<63A>00452  
PROJ/TASK 9767 01

AFOSRJ 92  
CATHOLIC U OF AMERICA WASHINGTON D C  
DYNAMIC BEHAVIOR OF A SET OF WEAKLY COUPLED ISING SPINS  
J MATH PHYS 3 793/797 JULY / AUG 1962  
BY MEIJER P H DDC NUMBER 400099  
TANAKA T INSTRUMENT AF 49<638>00452  
BARRY J H PROJ/TASK 9767 01

AFOSRJ 93  
CATHOLIC U OF AMERICA WASHINGTON D C  
THEORY OF RELAXATION PHENOMENA NEAR THE SECOND/ORDER  
PHASE/TRANSITION POINT  
J OF CHEM PHYS 37 1397/1402 OCT 1962  
BY TANAKA T DDC NUMBER 400097  
MEIJER P H E INSTRUMENT AF 49<63A>00452  
BARRY J H PROJ/TASK 9767 01

AFOSRJ 94  
CALIFORNIA INST OF TECH PASADENA  
RADIANT ENERGY EMISSION FROM EXCITED HARMONIC OSCILLATORS  
J OF CHEM PHYS 32 617/618 FEB 1960  
BY PENNER S C DDC NUMBER 400064  
INSTRUMENT AF 18<603>00002  
PROJ/TASK 9767 07

AFOSRJ 95  
CALIFORNIA INST OF TECH PASADENA  
TEMPERATURE MEASUREMENTS ON THE OM2 SIGMA 211 BAND SYSTEM  
FOR A TRANSPARENT GAS IN A SHOCK TUBE  
J QUANT SPECTROSC RADIAT TRANSFER 2 301/303 JUNE 1961  
BY WATSON R DDC NUMBER 400061  
INSTRUMENT AF 49<638>00984  
PROJ/TASK 9767 02

AFOSRJ 98  
CALIFORNIA INST OF TECH PASADENA  
A PRELIMINARY STUDY OF NEUTRAL TITANIUM EMISSION BEHIND  
REFLECTED SHOCK WAVES IN TICL4 /AR MIXTURES  
J QUANT SPECTROSC RADIAT TRANSFER 2 245/246  
NOV 1961  
BY SHACKLEFORD M L DDC NUMBER 400062  
INSTRUMENT AF 49<638>00984  
PROJ/TASK 9767 02

AFOSRJ 99  
JOHNS HOPKINS U BALTIMORE MD  
EMISSION SPECTRA OF THE DOUBLY AND TRIPLY IONIZED RARE  
EARTHS  
J OPTICAL SOC OF AMER 51 820/827 AUG 1961  
BY DIEKE G H DDC NUMBER 400063  
CROSSWHITE M M INSTRUMENT AF 49<638>00535  
DUNN B PROJ/TASK 9767 02

AFOSRJ 100  
JOHNS HOPKINS U BALTIMORE MD  
STRUCTURE OF FN CONFIGURATIONS. II. F5 AND F6 CONFIGURATION  
J OF CHEM PHYS 36 2301/2311 MAY 1962  
BY WYBOURNE B G DDC NUMBER 400169  
INSTRUMENT AF 49<638>00535  
PROJ/TASK 9767 02

AFOSRJ 101  
JOHNS HOPKINS U BALTIMORE MD  
STRUCTURE OF FN CONFIGURATIONS. I. CALCULATION OF THE ENERGY  
LEVELS  
J CHEM PHYS 36 2295/2300 MAY 1962  
BY WYBOURNE B G DDC NUMBER 400129  
INSTRUMENT AF 49<638>00535  
PROJ/TASK 9767 02

AFOSRJ 102  
JOHNS HOPKINS U BALTIMORE MD  
INTENSITIES OF CRYSTAL SPECTRA OF RARE/EARTH IONS  
J OF CHEM PHYS 37 911/920 AUG 1962  
BY OPELT G S DDC NUMBER 400174  
INSTRUMENT AF 49<638>00535  
PROJ/TASK 9767 02

AFOSRJ 103  
JOHNS HOPKINS U BALTIMORE MD  
TIME/RESOLVED SPECTRA OF RARE/EARTH IONS  
J OPTICAL SOC OF AMER 52 649/655  
BY HOVIS W A DDC NUMBER 400070  
INSTRUMENT AF 49<638>00535  
PROJ/TASK 9767 02

AFOSRJ 104  
WAYNE STATE U DETROIT MICH  
ENERGY GAP AND CRITICAL FIELD OF SUPERCONDUCTING MOLYBDENUM  
OBTAINED BY ULTRASONIC MEASUREMENTS  
PHYS REV LETS 9 313/314 OCT 1962  
BY HORWITZ N H DDC NUMBER 400454  
BOHM M V INSTRUMENT AF/AFOSR /0379/62  
PROJ/TASK 9761 03

AFOSRJ 105  
CALIFORNIA U LA JOLLA  
ENHANCEMENT OF HYDRODYNAMIC STABILITY BY MODULATIONS  
PHYS REV LETS 9 363/365 NOV 1962  
BY DONNELLY R J DDC NUMBER 400465  
REIF P INSTRUMENT AF 49<638>01038  
SUMI M PROJ/TASK 9761 01

AFOSRJ 106  
MCMASTER U HAMILTON ONTARIO CANADA  
CORROSION OF IRON/BACE ALLOYS AT HIGH TEMPERATURES  
CANADIAN MINING METALLURGICAL J 65 367/372 1962  
BY SMELTZER W W DDC NUMBER 400425  
INSTRUMENT AF/AFOSR /0108/61  
PROJ/TASK 9763 01

AFOSRJ 107  
WESTERN ONTARIO U LONDON CANADA  
ALLOWED TRANSITIONS  
ATOMIC AND MOLECULAR PROCESSES ACADEMIC PRESS INC  
N Y C 1962  
BY NICHOLLS R W DDC NUMBER 400463  
STEWART A L INSTRUMENT AF/AFOSR /0088/61  
PROJ/TASK 9767 02

AFOSRJ 108  
WESTERN ONTARIO U LONDON CANADA  
THE K2763 A 60.96 BAND OF THE O2 SCHUMANN/RUNGE SYSTEM  
J ATMOSPHERIC AND TERRESTRIAL PHYS 21 213/215 1961  
BY NICHOLLS R W DDC NUMBER 400464  
INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

AFOSRJ 109  
WESTERN ONTARIO U LONDON CANADA  
D/WAVE CONTRIBUTION TO ELECTRON/HYDROGEN ATOM SCATTERING  
CANADIAN J PHYS 38 317/320 1960  
BY MCEACHRAN R P DDC NUMBER 400184  
FRASER P A INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

AFOSRJ 110  
WESTERN ONTARIO U LONDON CANADA  
FRANCK/CONDON FACTORS AND R/CENTROIDS FOR SOME BANDS OF THE  
SIO A1 11/X1 SIGMA - BAND SYSTEM  
CANADIAN J PHYS 39 1215/1216 1961  
BY MCGREGOR A T DDC NUMBER 400185  
NICHOLLS R W INSTRUMENT AF 49<638>00640  
JARMAN W R PROJ/TASK 9767 02

AFOSRJ 111  
WESTERN ONTARIO U LONDON CANADA  
FRANCK/CONDON FACTORS AND R/CENTROIDS TO HIGH QUANTUM  
NUMBERS FOR BANDS OF THE 2112/A211U SYSTEM OF N-2  
CANADIAN J PHYS 40 523/527 1962  
BY NICHOLLS R W DDC NUMBER 400183  
INSTRUMENT AF/AFOSR /0088/61  
PROJ/TASK 9767 02

AFOSRJ 112  
WESTERN ONTARIO U LONDON CANADA  
FRANCK/CONDON FACTORS AND R/CENTROIDS FOR SOME BANDS OF THE  
CO FOURTH POSITIVE G111/X1 SIGMA BAND SYSTEM  
CANADIAN J PHYS 38 910/912 1960  
BY JARMAN W R DDC NUMBER 400441  
EBISVAKI R INSTRUMENT AF 49<638>00640  
NICHOLLS R W PROJ/TASK 9767 02

AFOSRJ 113  
WESTERN ONTARIO U LONDON CANADA  
INTENSITY MEASUREMENTS IN EMISSION ON 20 BANDS OF THE O2  
SCHUMANN/RUNGE SYSTEM  
PROC PHYS SOC 78 1024/1037 1961  
BY HERBERT G R DDC NUMBER 400054  
NICHOLLS R W INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

AFOSRJ 114  
WESTERN ONTARIO U LONDON CANADA  
MEASUREMENTS OF ROTATIONAL ENERGY DISTRIBUTIONS IN IONIC COLLISIONS  
PROC PHYS SOC 70 500/593 1961  
BY REAVES E M  
NICHOLLS R W  
DDC NUMBER 400055  
INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

AFOSRJ 115  
WESTERN ONTARIO U LONDON CANADA  
OPTICAL EXCITATION OF N<sub>2</sub> BY 0.5 TO 1.5 MEV HYDROGENIC IONS  
PROC PHYS SOC 71 217/222 1960  
BY REEVES E M  
NICHOLLS R W  
BROWLEY D A  
DDC NUMBER 400056  
INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

AFOSRJ 117  
WESTERN ONTARIO U LONDON CANADA  
CONDON PARABOLAE IN MOLECULAR SPECTRA  
NATURE 193 966/967 MAR 1962  
BY NICHOLLS R W  
DDC NUMBER 400195  
INSTRUMENT AF/AFOSR /0236/62  
PROJ/TASK 9767 02

AFOSRJ 118  
WESTERN ONTARIO U LONDON CANADA  
AN F66 LITTON GRATING SPECTROGRAPH  
J OPTICAL SOC OF AMER 51 353/355 MAR 1961  
BY FALLONA J P  
FERGUSON I S  
NICHOLLS R W  
DDC NUMBER 400196  
INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

AFOSRJ 119  
ROCHESTER U N Y  
THE MEASURES OF BANDWIDTH AND COHERENCE TIME IN OPTICS  
PROC PHYS SOC 80 894/897 1962  
BY MANDEL L  
WOLF E  
DDC NUMBER 400078  
INSTRUMENT AF/AFOSR /0266/62  
PROJ/TASK 9767 02

AFOSRJ 120  
SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
ELECTROMAGNETIC RADIATION FROM AN ELECTRIC DIPOLE IN A COLD ANISOTROPIC PLASMA  
PHYS OF FLUIDS 5 1095/1103 SEP 1962  
BY KUHL M W  
DDC NUMBER 400447  
INSTRUMENT AF 49<638>00522  
PROJ/TASK 9768

AFOSRJ 121  
CALIFORNIA INST OF TECH PASADENA  
AN ANALYSIS OF THE ABSOLUTE ENERGY DISTRIBUTION IN THE SPECTRUM OF SUNSPOTS  
ASTROPHYSICAL J 135 393/407 SEP 1962  
BY OKE J B  
GIVER L P  
SEARLE L  
DDC NUMBER 400448  
INSTRUMENT AF 49<638>00021  
PROJ/TASK 9774 01

AFOSRJ 122  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
ELECTROHYDRODYNAMIC SURFACE RESONATORS  
PHYS OF FLUIDS 5 1130/1131 SEP 1962  
BY MELCHER J R  
DDC NUMBER 400079  
INSTRUMENT DA/36/039/SC/78100  
PROJ/TASK 4751

AFOSRJ 123  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
PRECISE CRITICAL FIELD MEASUREMENTS OF SUPERCONDUCTING SM FILMS IN THE LONDON LIMIT  
PHYS REV 127 2030/2043 15 SEP 1962  
BY DOUGLASS D M  
BLUMBERG R M  
DDC NUMBER 400080  
INSTRUMENT DA/36/039/SC/78100  
PROJ/TASK 4751

AFOSRJ 124  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
SELF-DIFFUSION AND IMPURITY/CONTROLLED PROTON RELAXATION IN LIQUID ETHANE  
J CHEM PHYS 37 1180/1191 15 SEP 1962  
BY BAVEN J V  
STOCKMAYER W M  
WAUGH J S  
DDC NUMBER 400082  
INSTRUMENT DA/36/039/SC/78100  
PROJ/TASK 4751

AFOSRJ 125  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
ELECTROHYDRODYNAMIC AND MAGNETOHYDRODYNAMIC NONLINEAR SURFACE WAVES  
PHYS FLUIDS 5 1037/1043 SEP 1962  
BY MELCHER J R  
DDC NUMBER 400081  
INSTRUMENT DA/36/039/SC/78100  
PROJ/TASK 4751

AFOSRJ 126  
OKLAHOMA U RESEARCH FOUNDATION NORMAN  
SYSTEM FOR PROCESSING AND RECORDING EXCITATION FUNCTION DATA  
REV SCIENTIFIC INFO 33 1089/1094 OCT 1962  
BY ST JOHN R M  
LIN C C  
STANTON R L  
WEST H D  
SWEENEY J P  
RINEMARZ E A  
DDC NUMBER 400190  
INSTRUMENT AF/AFOSR /0067/62  
PROJ/TASK 9767 02

AFOSRJ 127  
CALIFORNIA U BERKELEY  
THE DEFINITION OF FIELD OF DEFINITION  
BUL SOC MATH MEXICANA 39/46 1962  
BY ROSEBLICHT M  
DDC NUMBER 400449  
INSTRUMENT AF 49<638>00603  
PROJ/TASK 9749 02

AFOSRJ 129  
INST FOR ADVANCED STUDY PRINCETON N J  
ASYMPTOTIC BEHAVIOR OF SOLUTIONS OF HYPERBOLIC INEQUALITIES  
BUL AMER MATH SOC 60 523/525 SEP 1962  
BY PROTTER M H  
DDC NUMBER 400191  
INSTRUMENT AF 49<638>00253  
PROJ/TASK 9749 02

AFOSRJ 130  
YRACUSE U N Y  
CIRCUIT FOR NOISE REDUCTION IN A MAGNETIC SUSPENSION BALANCE  
REV OF SCIENTIFIC INSTRUMENTS 33 1126/1127 OCT 1962  
BY TRISCKMA J W  
DDC NUMBER 400192  
INSTRUMENT AF/AFOSR /0023/60  
PROJ/TASK 9767

AFOSRJ 131  
ROCHESTER U N Y  
GROWTH OF FLUCTUATIONS IN A UNIFORMLY CONTRACTING OR EXPANDING CLOUD  
ASTROPHYSICAL J 136 609/614 SEP 1962  
BY SAVEDOFF M P  
VILA S  
DDC NUMBER 400193  
INSTRUMENT AF 49<638>00052  
PROJ/TASK 9774 01

AFOSRJ 133  
ROCHESTER U N Y  
THE CRAB AND CYGNUS A AS GAMMA RAY SOURCES  
IL NUOVO CIMENTO 10 12/10 1959  
BY SAVEDOFF M P  
DDC NUMBER 400194  
INSTRUMENT AF 49<638>00052  
PROJ/TASK 9774 01

AFOSRJ 134  
DUKE U DURHAM N C  
ELECTRON SPIN RESONANCE OF GAMMA-IRRADIATED SINGLE CRYSTAL OF ACETYL/L-GLUTAMIC ACID  
J OF CHEM PHYS 37 2143/2146 NOV 1962  
BY KATAYAMA M  
DDC NUMBER 400396  
INSTRUMENT AF/AFOSR /0327/62  
PROJ/TASK 9767 02

AFOSRJ 135  
MICHIGAN STATE U EAST LANSING  
SYMMETRY PROPERTIES OF THE ASYMMETRIC/ROTATOR CENTRIFUGAL/DISTORTION CONSTANTS  
J OF CHEM PHYS 37 1596/1599 OCT 1962  
BY PARKER P M  
DDC NUMBER 400186  
INSTRUMENT AF 49<638>00894  
PROJ/TASK 9767 01

AFOSRJ 136  
CALIFORNIA U BERKELEY  
VARIATIONAL CALCULATIONS OF SCATTERING  
ANNAL OF PHYS 16 36/50 1961  
BY SCHWARTZ C  
DDC NUMBER 400187  
INSTRUMENT AF/AFOSR /0121/62  
PROJ/TASK 9767 01

AFOSRJ 137  
CALIFORNIA U BERKELEY  
PIOM RESONANCES  
PHYS REV 128 849/850 OCT 1962  
BY ZACHARIASSEN F  
ZEMACH C  
DDC NUMBER 400188  
INSTRUMENT AF/AFOSR /0121/61  
PROJ/TASK 9767 01

AFOSRJ 138  
CALIFORNIA U BERKELEY  
IMPORTANCE OF ANGULAR CORRELATIONS BETWEEN ATOMIC ELECTRONS  
PHYS REV 126 1015/1019 MAY 1962  
BY SCHWARTZ C  
DDC NUMBER 400077  
INSTRUMENT AF/AFOSR /0121/62  
PROJ/TASK 9767 01

AFOSRJ 139  
CALIFORNIA INST OF TECH PASADENA  
HEATING OF STELLAR CHROMOSPHERE BY SHOCK WAVES  
ASTROPHYSICAL J 132 452/460 SEP 1960  
BY HAYMANN R  
DDC NUMBER 400450  
INSTRUMENT AF 49<638>00021  
PROJ/TASK 9774 01

AFOSRJ 141  
UPPSALA U SWEDEN  
EXPERIMENTAL STUDIES OF THE ELECTROMAGNETIC TRANSITIONS FROM THE FIRST EXCITED STATES IN HF 177, LU 175, AND LU 177  
ARKIV FOR FYSIK 23 341/354 1962  
BY LINDSKOG T  
SUNDSTROM T  
SPARRMAN P  
DDC NUMBER 400381  
INSTRUMENT AF/EOAR /0123/62  
PROJ/TASK 9751 02

AFOSRJ 142  
YALE U NEW HAVEN CONN  
SCATTERING APPROXIMATION OF RANGE FORCES  
PHYS REV LETS 9 392/396 NOV 1962  
BY GREIDER K R  
DDC NUMBER 400380  
INSTRUMENT AF/AFOSR /0042/62  
PROJ/TASK 9751 02

AFOSRJ 143  
LONDON U IMPERIAL COLL OF SCIENCE AND TECH ENGLAND  
DISPERSION THEORY OF THE DEUTERON FORM FACTOR AND ELASTIC E/D SCATTERING  
IL NUOVO CIMENTO 27 1039 FEB 1963  
BY JONES H F  
DDC NUMBER 400090  
INSTRUMENT AF/EOAR /0087/62  
PROJ/TASK 9751 01

AFOSRJ 144  
MICHIGAN STATE U EAST LANSING  
COMPUTATION OF ASYMMETRIC ROTATOR CONSTANTS FROM ENERGY MOMENTS. IV  
J OF CHEM PHYS 37 2615/2618 DEC 1962  
BY GENUSA V A  
PARKER P M  
DDC NUMBER 400378  
INSTRUMENT AF/AFOSR /0375/62  
PROJ/TASK 9767 01

AFOSRJ 145  
WASHINGTON U ST LOUIS MO  
EFFECTS OF ION ASSOCIATION ON RATES OF OXIDATION/REDUCTION TRANSFER REACTIONS IN THE NAPHTHALENE/NAPHTHALDINONE SYSTEMS  
J AMER CHEM SOC 84 4408/4410 1962  
BY ZANDSTRA P J  
WEISSMAN  
INSTRUMENT AF/AFOSR /0365/62  
PROJ/TASK 9767 01

APOSRJ 84  
PARIS U FRANCE  
CRISTALLOGRAPHIA  
COMP RENDUS 295 319/321 JUL 1962  
BY LEVELUT M A  
LAMBERT M  
GUINIER M A  
DDC NUMBER 400096  
INSTRUMENT AF/AOSR /0051/62  
PROJ/TASK 9761 03

APOSRJ 85  
COLUMBIA U NEW YORK N Y  
DETECTION OF THE MICROWAVE V27/LINE OF MOLECULAR OXYGEN  
PRODUCED IN THE HIGH ATMOSPHERE  
NATURE 195 30/32 JUL 1962  
BY KAMAN W  
DDC NUMBER 400457  
INSTRUMENT AF/AOSR /0050/62  
PROJ/TASK 9767 02

APOSRJ 86  
COLUMBIA U NEW YORK N Y  
OPTICAL DOUBLE PHOTON ABSORPTION IN CESIUM VAPOR  
PHYS REV LTRS 9 453/455 DEC 1962  
BY ABELLA I D  
DDC NUMBER 400456  
INSTRUMENT AF/AOSR /0049/62  
PROJ/TASK 9767

APOSRJ 87  
COLUMBIA U NEW YORK N Y  
OPTICAL HARMONIC FREQUENCY RATIO MEASUREMENTS  
PROC OF IRE 90 AUG 1962  
BY ABELLA I D  
DDC NUMBER 400455  
INSTRUMENT AF/AOSR /0049/62  
PROJ/TASK 9768

APOSRJ 88  
GEORGIA INST OF TECH ATLANTA  
SOURCE OF THERMAL IONS FOR USE IN GASES AT HIGH PRESSURES  
REV OF SCIENTIFIC INSTRUMENTS 31 660 JUN 1960  
BY MCDANIEL E W  
MARTIN D W  
DDC NUMBER 400059  
INSTRUMENT AF 18<600>01524  
PROJ/TASK 9767 02

APOSRJ 89  
GEORGIA INST OF TECH ATLANTA  
ON THE POSSIBLE OCCURRENCE OF M-3 IN INTERSTELLAR SPACE  
ASTROPHYSICAL J 134 1012/1013 NOV 1961  
BY MARTIN D W  
MCDANIEL E W  
WEEKS M L  
DDC NUMBER 400067  
INSTRUMENT AF 49<638>01064  
PROJ/TASK 9767 02

APOSRJ 90  
CATHOLIC U OF AMERICA WASHINGTON D C  
LINE SHAPE OF ULTRAVIOLET ABSORPTION IN SOLID NOBLE GASES  
J OF CHEM PHYS 34 2078/2082 JUNE 1961  
BY WEIJER P H  
DDC NUMBER 400132  
INSTRUMENT AF 49<638>00452  
PROJ/TASK 9767 01

APOSRJ 91  
CATHOLIC U OF AMERICA WASHINGTON D C  
RELAXATION PHENOMENA IN AN ISING SPIN SYSTEM  
J PHYS SOC OF JAPAN 17 78/80 1962  
BY TANAKA T  
WEIJER P H E  
DDC NUMBER 400133  
INSTRUMENT AF 49<638>00452  
PROJ/TASK 9767 01

APOSRJ 92  
CATHOLIC U OF AMERICA WASHINGTON D C  
DYNAMIC BEHAVIOR OF A SET OF NEARLY COUPLED ISING SPINS  
J MATH PHYS 3 793/797 JULY / AUG 1962  
BY WEIJER P H  
TANAKA T  
BARRY J H  
DDC NUMBER 400099  
INSTRUMENT AF 49<638>00452  
PROJ/TASK 9767 01

APOSRJ 93  
CATHOLIC U OF AMERICA WASHINGTON D C  
THEORY OF RELAXATION PHENOMENA NEAR THE SECOND/ORDER  
PHASE/TRANSITION POINT  
J OF CHEM PHYS 37 1397/1402 OCT 1962  
BY TANAKA T  
WEIJER P H E  
BARRY J H  
DDC NUMBER 400097  
INSTRUMENT AF 49<638>00452  
PROJ/TASK 9767 01

APOSRJ 94  
CALIFORNIA INST OF TECH PASADENA  
RADIANT ENERGY EMISSION FROM EXCITED HARMONIC OSCILLATORS  
J OF CHEM PHYS 32 617/618 FEB 1960  
BY PENNER S S  
DDC NUMBER 400064  
INSTRUMENT AF 18<600>00002  
PROJ/TASK 9767 02

APOSRJ 96  
CALIFORNIA INST OF TECH PASADENA  
TEMPERATURE MEASUREMENTS ON THE OM2 SIGMA 211 BAND SYSTEM  
FOR A TRANSPARENT GAS IN A SHOCK TUBE  
J QUANT SPECTROSC RADIAT TRANSFER 2 301/303 JUNE 1961  
BY WATSON R  
DDC NUMBER 400061  
INSTRUMENT AF 49<638>00984  
PROJ/TASK 9767 02

APOSRJ 98  
CALIFORNIA INST OF TECH PASADENA  
A PRELIMINARY STUDY OF NEUTRAL TITANIUM EMISSION BEHIND  
REFLECTED SHOCK WAVES IN TICL4 /AR MIXTURES  
QUANT SPECTROSC RADIAT TRANSFER 2 245/246  
NOV 1961  
BY SHACKLEFORD W L  
DDC NUMBER 400062  
INSTRUMENT AF 49<638>00984  
PROJ/TASK 9767 02

APOSRJ 99  
JOHNS HOPKINS U BALTIMORE MD  
EMISSION SPECTRA OF THE DOUBLY AND TRIPLY IONIZED RARE  
EARTHS  
J OPTICAL SOC OF AMER 51 820/827 AUG 1961  
BY DIEKE G W  
CROSSWHITE M H  
MUNN R  
DDC NUMBER 400063  
INSTRUMENT AF 49<638>00535  
PROJ/TASK 9767 02

APOSRJ 100  
JOHNS HOPKINS U BALTIMORE MD  
STRUCTURE OF FN CONFIGURATIONS. 11. F5 AND F9 CONFIGURATION  
J OF CHEM PHYS 36 2301/2311 MAY 1962  
BY WYBOURNE B G  
DDC NUMBER 400169  
INSTRUMENT AF 49<638>00535  
PROJ/TASK 9767 02

APOSRJ 101  
JOHNS HOPKINS U BALTIMORE MD  
STRUCTURE OF FN CONFIGURATIONS. 1. CALCULATION OF THE ENERGY  
LEVELS  
J OF CHEM PHYS 36 2295/2300 MAY 1962  
BY WYBOURNE B G  
DDC NUMBER 400129  
INSTRUMENT AF 49<638>00535  
PROJ/TASK 9767 02

APOSRJ 102  
JOHNS HOPKINS U BALTIMORE MD  
INTENSITIES OF CRYSTAL SPECTRA OF RARE/EARTH IONS  
J OF CHEM PHYS 37 911/920 AUG 1962  
BY OFELY G S  
DDC NUMBER 400174  
INSTRUMENT AF 49<638>00535  
PROJ/TASK 9767 02

APOSRJ 103  
JOHNS HOPKINS U BALTIMORE MD  
TIME/RESOLVED SPECTRA OF RARE/EARTH IONS  
J OPTICAL SOC OF AMER 52 649/655  
BY MOVIS W A  
DDC NUMBER 400070  
INSTRUMENT AF 49<638>00535  
PROJ/TASK 9767 02

APOSRJ 104  
WAYNE STATE U DETROIT MICH  
ENERGY GAP AND CRITICAL FIELD OF SUPERCONDUCTING MOLYBDENUM  
OBTAINED BY ULTRASONIC MEASUREMENTS  
PHYS REV LTRS 9 313/314 OCT 1962  
BY MORRITZ N H  
BOMM H V  
DDC NUMBER 400454  
INSTRUMENT AF/AOSR /0379/62  
PROJ/TASK 9761 03

APOSRJ 105  
CALIFORNIA U LA JOLLA  
ENHANCEMENT OF HYDRODYNAMIC STABILITY BY MODULATIONS  
PHYS REV LTRS 9 363/365 NOV 1962  
BY DONNELLY R J  
RFIF P  
SUMI M  
DDC NUMBER 400465  
INSTRUMENT AF 49<638>01038  
PROJ/TASK 9761 01

APOSRJ 106  
MCMASTER U HAMILTON ONTARIO CANADA  
CORROSION OF IRON/BAE ALLOYS AT HIGH TEMPERATURES  
CANADIAN MINING METALLURGICAL BUL 65 367/372 1962  
BY SMELTZER M W  
DDC NUMBER 400425  
INSTRUMENT AF/AOSR /0108/61  
PROJ/TASK 9763 01

APOSRJ 107  
WESTERN ONTARIO U LONDON CANADA  
ALLOWED TRANSITIONS  
ATOMIC AND MOLECULAR PROCESSES ACADEMIC PRESS INC  
N Y C 1962  
BY NICHOLLS R W  
STEWART A L  
DDC NUMBER 400463  
INSTRUMENT AF/AOSR /0088/61  
PROJ/TASK 9767 02

APOSRJ 108  
WESTERN ONTARIO U LONDON CANADA  
THE 4274 A 60.96 BAND OF THE O2 SCHUMANN/RUNGE SYSTEM  
J ATMOSP AND TERRES PHYS 21 213/215 1961  
BY NICHOLLS R W  
DDC NUMBER 400464  
INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

APOSRJ 109  
WESTERN ONTARIO U LONDON CANADA  
D/WAVE CONTRIBUTION TO ELECTRON/HYDROGEN ATOM SCATTERING  
CANADIAN J PHYS 38 317/320 1960  
BY MCEACHMAN R P  
FRASER P A  
DDC NUMBER 400184  
INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

APOSRJ 110  
WESTERN ONTARIO U LONDON CANADA  
FRANCE/CONDON FACTORS AND R/CENTROIDS FOR SOME BANDS OF THE  
SiO A1 11/X1 SIGMA - BAND SYSTEM  
CANADIAN J PHYS 39 1215/1216 1961  
BY MCGREGOR A T  
NICHOLLS R W  
JARMAN W R  
DDC NUMBER 400185  
INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

APOSRJ 111  
WESTERN ONTARIO U LONDON CANADA  
FRANCE/CONDON FACTORS AND R/CENTROIDS TO HIGH QUANTUM  
NUMBERS FOR BANDS OF THE 2112/A211U SYSTEM OF N-2  
CANADIAN J PHYS 40 523/527 1962  
BY NICHOLLS R W  
DDC NUMBER 400183  
INSTRUMENT AF/AOSR /0088/61  
PROJ/TASK 9767 02

APOSRJ 112  
WESTERN ONTARIO U LONDON CANADA  
FRANCE/CONDON FACTORS AND R/CENTROIDS FOR SOME BANDS OF THE  
CO FOURTH POSITIVE 6A111/X1 SIGMA BAND SYSTEM  
CANADIAN J PHYS 38 510/512 1960  
BY JARMAN W R  
EBISVLAKI R  
NICHOLLS R W  
DDC NUMBER 400461  
INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

APOSRJ 113  
WESTERN ONTARIO U LONDON CANADA  
INTENSITY MEASUREMENTS IN EMISSION ON 29 BANDS OF THE O2  
SCHUMANN/RUNGE SYSTEM  
PROC PHYS SOC 78 1024/1037 1961  
BY HEBERT G R  
NICHOLLS R W  
DDC NUMBER 400054  
INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

AFOSRJ 114  
WESTERN ONTARIO U LONDON CANADA  
MEASUREMENTS OF ROTATIONAL ENERGY DISTRIBUTIONS IN IONIC  
COLLISIONS  
PROC PHYS SOC 70 988/993 1961  
BY REAVES E M  
NICHOLLS R W  
DCD NUMBER 400055  
INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

AFOSRJ 115  
WESTERN ONTARIO U LONDON CANADA  
OPTICAL EXCITATION OF N2 BY 0.5 TO 1.5 MEV HYDROGENIC IONS  
PROC PHYS SOC 71 217/222 1960  
BY REAVES E M  
NICHOLLS R W  
BROMLEY D A  
DCD NUMBER 400056  
INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

AFOSRJ 117  
WESTERN ONTARIO U LONDON CANADA  
CONDON PARABOLAE IN MOLECULAR SPECTRA  
NATURE 193 966/967 MAR 1962  
BY NICHOLLS R W  
DCD NUMBER 400195  
INSTRUMENT AF/AFOSR /0236/62  
PROJ/TASK 9767 02

AFOSRJ 118  
WESTERN ONTARIO U LONDON CANADA  
AN F66 LITROW GRATING SPECTROGRAPH  
J OPTICAL SOC OF AMER 51 353/355 MAR 1961  
BY FALONA J P  
FERGUSON I S  
NICHOLLS R W  
DCD NUMBER 400196  
INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

AFOSRJ 119  
ROCHESTER U N Y  
THE MEASURES OF BANDWIDTH AND COHERENCE TIME IN OPTICS  
PROC PHYS SOC 80 894/897 1962  
BY MANDEL L  
WOLF E  
DCD NUMBER 400078  
INSTRUMENT AF/AFOSR /0246/62  
PROJ/TASK 9767 02

AFOSRJ 120  
SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
ELECTROMAGNETIC RADIATION FROM AN ELECTRIC DIPOLE IN A COLD  
ANISOTROPIC PLASMA  
PHYS OF FLUIDS 9 1095/1103 SEP 1962  
BY KUEHL M H  
DCD NUMBER 400447  
INSTRUMENT AF 49<638>00522  
PROJ/TASK 9768

AFOSRJ 121  
CALIFORNIA INST OF TECH PASADENA  
AN ANALYSIS OF THE ABSOLUTE ENERGY DISTRIBUTION IN THE  
SPECTRUM OF SU ORACONIS  
ASTROPHYSICAL J 135 393/407 SEP 1962  
BY GEE J B  
GIVER L P  
SEARLE L  
DCD NUMBER 400448  
INSTRUMENT AF 49<638>00021  
PROJ/TASK 9774 01

AFOSRJ 122  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
ELECTROHYDRODYNAMIC SURFACE RESONATORS  
PHYS OF FLUIDS 9 1190/1191 SEP 1962  
BY MELCHER J R  
DCD NUMBER 400079  
INSTRUMENT DA/36/039/SC/70100  
PROJ/TASK 4751

AFOSRJ 123  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
PRECISE CRITICAL/FIELD MEASUREMENTS OF SUPERCONDUCTING SN  
FILMS IN THE LONDON LIMIT  
PHYS REV 127 2030/2043 15 SEP 1962  
BY DOUGLASS D M  
BLUMBERG R H  
DCD NUMBER 400080  
INSTRUMENT DA/36/039/SC/70100  
PROJ/TASK 4751

AFOSRJ 124  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
SELF-DIFFUSION AND IMPURITY/CONTROLLED PROTON RELAXATION IN  
LIQUID ETHANE  
J CHEM PHYS 37 1180/1191 15 SEP 1962  
BY BAVEN J V  
STOCKMAYER W H  
WAUGH J S  
DCD NUMBER 400082  
INSTRUMENT DA/36/039/SC/70100  
PROJ/TASK 4751

AFOSRJ 125  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
ELECTROHYDRODYNAMIC AND MAGNETOHYDRODYNAMIC NONLINEAR  
SURFACE WAVES  
PHYS FLUIDS 5 1037/1043 SEP 1962  
BY MELCHER J R  
DCD NUMBER 400081  
INSTRUMENT DA/36/039/SC/70100  
PROJ/TASK 4751

AFOSRJ 126  
OKLAHOMA U RESEARCH FOUNDATION NORMAN  
SYSTEM FOR PROCESSING AND RECORDING EXCITATION FUNCTION DATA  
REV SCIENTIFIC INFO 33 1089/1094 OCT 1962  
BY ST JOHN R M  
LIN C C  
STANTON R L  
WEST M D  
SWEENEY J P  
RINEHART F A  
DCD NUMBER 400190  
INSTRUMENT AF/AFOSR /0067/62  
PROJ/TASK 9767 02

AFOSRJ 127  
CALIFORNIA U BERKELEY  
THE DEFINITION OF FIELD OF DEFINITION  
BUL SOC MATH MEXICANA 39/46 1962  
BY ROSENBLICHT M  
DCD NUMBER 400449  
INSTRUMENT AF 49<638>00603  
PROJ/TASK 9749 02

AFOSRJ 129  
INST FOR ADVANCED STUDY PRINCETON N J  
ASYMPTOTIC BEHAVIOR OF SOLUTIONS OF HYPERBOLIC INEQUALITIES  
BUL AMER MATH SOC 60 523/525 SEP 1962  
BY PROTTER M H  
DCD NUMBER 400191  
INSTRUMENT AF 49<638>00293  
PROJ/TASK 9749 02

AFOSRJ 130  
SYRACUSE U N Y  
CIRCUIT FOR NOISE REDUCTION IN A MAGNETIC SUSPENSION BALANCE  
REV OF SCIENTIFIC INSTRUMENTS 33 1126/1127 OCT 1962  
BY TRISCHKA J W  
DCD NUMBER 400192  
INSTRUMENT AF AFOSR /0023/60  
PROJ/TASK 9-67

AFOSRJ 131  
ROCHESTER U N Y  
GROWTH OF FLUCTUATIONS IN A UNIFORMLY CONTRACTING OR  
EXPANDING CLOUD  
ASTROPHYSICAL J 136 609/614 SEP 1962  
BY SAVEDOFF M P  
VILA S  
DCD NUMBER 400193  
INSTRUMENT AF 49<638>00052  
PROJ/TASK 9774 01

AFOSRJ 133  
ROCHESTER U N Y  
THE CRAB AND CYGNUS A AS GAMMA RAY SOURCES  
IL NUOVO CIMENTO 10 12/10 1959  
BY SAVEDOFF M P  
DCD NUMBER 400194  
INSTRUMENT AF 49<638>00052  
PROJ/TASK 9774 01

AFOSRJ 134  
DUKE U DURHAM N C  
ELECTRON SPIN RESONANCE OF GRAMMA/IRRADIATED SINGLE  
CRYSTAL OF ACETYL/L-GLUTAMIC ACID  
J OF CHEM PHYS 37 2143/2146 NOV 1962  
BY KATAYAMA M  
DCD NUMBER 400396  
INSTRUMENT AF/AFOSR /0327/62  
PROJ/TASK 9767 02

AFOSRJ 135  
MICHIGAN STATE U EAST LANSING  
SYMMETRY PROPERTIES OF THE ASYMMETRIC/ROTATOR  
CENTRIFUGAL/DISTORTION CONSTANTS  
J OF CHEM PHYS 37 1596/1599 OCT 1962  
BY PARKER P M  
DCD NUMBER 400186  
INSTRUMENT AF 49<638>00894  
PROJ/TASK 9767 01

AFOSRJ 136  
CALIFORNIA U BERKELEY  
VARIATIONAL CALCULATIONS OF SCATTERING  
ANNAL OF PHYS 16 36/50 1961  
BY SCHWARTZ C  
DCD NUMBER 400187  
INSTRUMENT AF/AFOSR /0121/62  
PROJ/TASK 9767 01

AFOSRJ 137  
CALIFORNIA U BERKELEY  
PION RESONANCES  
PHYS REV 128 849/850 OCT 1962  
BY ZACHARIASSEN F  
ZEMACH C  
DCD NUMBER 400188  
INSTRUMENT AF/AFOSR /0121/61  
PROJ/TASK 9767 01

AFOSRJ 138  
CALIFORNIA U BERKELEY  
IMPORTANCE OF ANGULAR CORRELATIONS BETWEEN ATOMIC ELECTRONS  
PHYS REV 126 1019/1019 MAY 1962  
BY SCHWARTZ C  
DCD NUMBER 400077  
INSTRUMENT AF/AFOSR /0121/62  
PROJ/TASK 9767 01

AFOSRJ 139  
CALIFORNIA INST OF TECH PASADENA  
HEATING OF STELLAR CHROMOSPHERE BY SMOCK WAVES  
ASTROPHYSICAL J 132 457/460 SEP 1960  
BY HAYMANN R  
DCD NUMBER 400450  
INSTRUMENT AF 49<638>00021  
PROJ/TASK 9774 01

AFOSRJ 141  
UPPSALA U SWEDEN  
EXPERIMENTAL STUDIES OF THE ELECTROMAGNETIC TRANSITIONS  
FROM THE FIRST EXCITED STATES IN MF 177, LU 179, AND LU 177  
ARKIV FOR FYSIK 23 341/354 1962  
BY LINDBROG T  
SUNDSTROM T  
SPARRMAN P  
DCD NUMBER 400381  
INSTRUMENT AF/EOAR /0123/62  
PROJ/TASK 9751 02

AFOSRJ 142  
YALE U NEW HAVEN CONN  
SCATTERING APPROXIMATION FOR LONG RANGE FORCES  
PHYS REV LETS 9 392/396 NOV 1962  
BY GREIDER K R  
DCD NUMBER 400380  
INSTRUMENT AF/AFOSR /0042/62  
PROJ/TASK 9751 02

AFOSRJ 143  
LONDON U IMPERIAL COLL OF SCIENCE AND TECH ENGLAND  
DISPERSION THEORY OF THE DEUTERON FORM FACTOR AND ELASTIC  
E/D SCATTERING  
IL NUOVO CIMENTO 27 1039 FEB 1963  
BY JONES M F  
DCD NUMBER 400090  
INSTRUMENT AF/EOAR /0087/62  
PROJ/TASK 9751 01

AFOSRJ 144  
MICHIGAN STATE U EAST LANSING  
COMPUTATION OF ASYMMETRIC ROTATOR CONSTANTS FROM ENERGY  
MOMENTS. IV  
J OF CHEM PHYS 37 2615/2618 DEC 1962  
BY GENUSA V A  
PARKER P M  
DCD NUMBER 400378  
INSTRUMENT AF/AFOSR /0375/62  
PROJ/TASK 9767 01

AFOSRJ 145  
WASHINGTON U ST LOUIS MO  
EFFECTS OF ION ASSOCIATION ON RATES OF OXIDATION/REDUCTION  
TRANSFER REACTIONS IN THE NAPHTHALENE/NAPHTHALDINIDE SYSTEMS  
J AMER CHEM SOC 84 4408/4410 1962  
BY ZANDSTRA P J  
WEISSMAN  
DCD NUMBER 400379  
INSTRUMENT AF/AFOSR /0365/62  
PROJ/TASK 9767 01

AFOSRJ 147  
MULL U ENGLAND  
THE INHIBITION OF THE HYDROGEN - OXYGEN REACTION BY  
FORMALDEHYDE  
TRANS OF THE PARADY SOC 98 1748/1801 SEP 1962  
BY BALDWIN R R DDC NUMBER 416081  
COWE R R INSTRUMENT AF 61<052>00062  
PROJ/TASK 9750 02

AFOSRJ 149  
CALIFORNIA U LOS ANGELES  
SYNTHESIS OF OPTIMUM MULTIVARIABLE CONTROL SYSTEMS BY THE  
METHOD OF STEEPEST DESCENT  
TRANS OF AIEE 61/1156 1/15 JAN 1963  
BY HAICH M C DDC NUMBER 400377  
INSTRUMENT AF/AFOSR /0068/62  
PROJ/TASK 9749 01

AFOSRJ 152  
HEBREW U JERUSALEM ISRAEL  
REVIEW OF THE RESEARCH IN PROGRESS IN THE VACUUM ULTRAVIOLET  
QUANT SPECTROSCOPY RADIATION TRANSFER 2 725/728 1962  
BY ALEXANDER R DDC NUMBER 400065  
FRANKEL H S INSTRUMENT AF/EOAR /0033/62  
FELDMANN V PROJ/TASK 9761 03  
JACOBS A  
KAROVKY J

AFOSRJ 153  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
SEMICLASSICAL DISPERSION THEORY OF INTERBAND MAGNETO/OPTICAL  
EFFECTS  
PHYS REV 128 2655/2660 DEC 1962  
BY KOLODZIEJCZAK J DDC NUMBER 400092  
LAX B INSTRUMENT AF 19<604>07344  
NISHINA Y PROJ/TASK 9764 00

AFOSRJ 157  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
HIGH-FIELD SUPERCONDUCTIVITY IN NIOBIUM  
PHYS REV LETS 9 489/493 DEC 1962  
BY AUTLER S N DDC NUMBER 400092  
POSENBLUM E S INSTRUMENT AF 19<604>07344  
GOOEN K M PROJ/TASK 9764 00

AFOSRJ 158  
ROCHESTER U N Y  
RELATION BETWEEN ABSORPTION AND EMISSION PROBABILITIES IN  
LUMINESCENT CENTERS IN IONIC SOLIDS  
PHYS REV 128 2154/2165 DEC 1962  
BY FOWLER W B DDC NUMBER 400091  
DEXTER D L INSTRUMENT AF/AFOSR /0145/62  
PROJ/TASK 9761 01

AFOSRJ 159  
NORTH CAROLINA U CHAPEL HILL  
DETECTION OF NUCLEAR DISINTEGRATIONS PRODUCED BY 1.95  
MEV PROTONS IN SILVER CHLORIDE SINGLE CRYSTALS  
PHYS REV LETS 9 294 295 OCT 1962  
BY CHILDS C B DDC NUMBER 400086  
BLIFKIN L INSTRUMENT AF 49<638>00865  
PROJ/TASK 9761 03

AFOSRJ 161  
MELLON INST OF INDUSTRIAL RESEARCH PITTSBURGH PA  
DENSITY AND EXPANSIVITY OF SOLID XENON  
J CHEM PHYS 37 902 3006 DEC 1962  
BY SPARS D B DDC NUMBER 400845  
KLUG W P INSTRUMENT AF 49<638>00575  
PROJ/TASK 9760

AFOSRJ 162  
YESHIVA U NEW YORK N Y  
CLASSICAL RADIATION RECOIL  
PHYS REV 128 2471/2475 DEC 1962  
BY PFEIS A DDC NUMBER 400066  
INSTRUMENT AF/AFOSR /0036/62  
PROJ/TASK 9751 03

AFOSRJ 163  
ROCHESTER U N Y  
SUPERCONDUCTIVITY IN THE CASE OF OVERLAPPING BANDS  
PHYS REV 128 1538/1539 NOV 1962  
BY SUFFCZYNSKI M DDC NUMBER 400089  
INSTRUMENT AF/AFOSR /0145/62  
PROJ/TASK 9761 01

AFOSRJ 164  
COLUMBIA U NEW YORK N Y  
DEFORMATION AND FRACTURE OF POLYCRYSTALLINE CADMIUM  
TRANS METALLURGICAL SOC OF AIME 227 70/80 FEB 1963  
BY STOLOFF M S DDC NUMBER 400088  
GINSBERG M INSTRUMENT AF 49<638>00408  
PROJ/TASK 9763 01

AFOSRJ 165  
INST FOR SCIENTIFIC INFORMATION PHILADELPHIA PA  
A POSSIBLY INEXPENSIVE ATTACHMENT FOR A MICROFILM READER  
TO PERMIT SYNCHRONIZED COORDINATE SEARCHING  
J CHEM DOCUMENTATION 1 29/32 JAN 1963  
BY OCONNOR J DDC NUMBER 400090  
INSTRUMENT AF/AFOSR /0257/62  
PROJ/TASK 9769 02

AFOSRJ 166  
COLUMBIA U NEW YORK N Y  
MICROWAVE SPECTRUM OF BROMOCYCLOBUTANE  
J CHEM PHYS 36 2931/2940 1962  
BY DAILY B P DDC NUMBER 400090  
ROTHSCHILD W G INSTRUMENT AF 49<638>00953  
PROJ/TASK 9763

AFOSRJ 167  
ROCKFORD RESEARCH INST CAMBRIDGE MASS  
THE REACTIVE TYPEWRITER PROGRAM  
COMMUNICATIONS OF THE ACM 6 48 JAN 1963  
BY MOFFERS C M DDC NUMBER 400090  
INSTRUMENT AF/AFOSR /0377/62  
PROJ/TASK 9769 06

AFOSRJ 168  
CALIFORNIA U BERKELEY  
FIRST CALIFORNIA CONFERENCE ON VERBAL LEARNING AND VERBAL  
BEHAVIOR  
J VERBAL LEARNING AND VERBAL BEHAVIOR JAN 1963  
BY POSTMAN J DDC NUMBER 400091  
INSTRUMENT AF/AFOSR /0389/62  
PROJ/TASK 9778 01

AFOSRJ 169  
BRUSSELS FREE U BELGIUM  
AUDITORY/EVOKED POTENTIALS FROM COCHLEA TO CORTER AS  
INFLUENCED BY ACTIVATION OF THE EFFERENT OLIVO/COCHLEAR  
BUNDLE  
ACOUSTICAL SOC OF AMER J 34 NO 9 1478/1496 SEP  
1962  
BY DESMEDT J F DDC NUMBER 400431  
INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 170  
BRUSSELS FREE U BELGIUM  
EFFERENT OLIVO/COCHLEAR GATING OF ACOUSTIC INPUT AND THE  
RESULTANT CHANGES IN AUDITORY CORTER POTENTIALS  
J OF PHYSIOLOGY 165 33/34 1962 PROC OF "PHYSIOLOGICAL  
SOC ROCHESTER N Y SEP 1962  
BY DESMEDT J F DDC NUMBER 400432  
INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 171  
BRUSSELS FREE U BELGIUM  
THE PHARMACOLOGY OF A CENTRIFUGAL INHIBITORY PATHWAY IN THE  
CATS ACOUSTIC SYSTEM  
1ST INTL PHARMACOLOGICAL MEETING PERGAMON PRESS B 1962  
BY DESMEDT J F DDC NUMBER 400433  
MONACO P INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 172  
CALIFORNIA U LOS ANGELES  
THE PHYSIOLOGIC BASIS OF CARDIAC ARREST DURING ANESTHESIA  
AMER J OF SURGERY 100 354/357 AUG 1960  
BY PORTER R W DDC NUMBER 400434  
FRENCH J D INSTRUMENT AF 49<638>00686  
PROJ/TASK 7164

AFOSRJ 173  
CALIFORNIA U LOS ANGELES  
EVOKED POTENTIALS IN THE HYPOTHALAMUS  
AMER J OF PHYSIOLOGY 196 NO 6 1163/1167 JUN 1959  
BY FELDMAN S DDC NUMBER 400426  
VAN DER WEIDE C D INSTRUMENT AF 49<638>00686  
PORTER R W PROJ/TASK 7164

AFOSRJ 174  
OXFORD U ENGLAND  
BIOLOGICAL INACTIVATION BY AMINE OXIDASES AND TIME COURSES  
OF DRUG ACTION  
1ST INTL PHARMACOLOGICAL MEETING LEIDEN 6 PERGAMON  
PRESS 1962  
BY BLASCHKO M DDC NUMBER 400428  
INSTRUMENT AF/EOAR /0080/62  
PROJ/TASK 9777 01

AFOSRJ 175  
EDINBURGH U SCOTLAND  
VASCULAR RESPONSES OF THE RAT TO BRADYKININ  
BRITISH J OF PHARMACOLOGY - CHEMOTHERAPY 19 NO 3  
503/507 DEC 1962  
BY LLOYD S DDC NUMBER 400427  
INSTRUMENT AF/EOAR /0079/62  
PROJ/TASK 9777 01

AFOSRJ 176  
OXFORD U ENGLAND  
POTENTIATION OF THE RESPONSE TO HISTAMINE BY PICOLYLAMINES  
BRITISH J OF PHARMACOLOGY - CHEMOTHERAPY 19 NO 3  
544/551 DEC 1962  
BY BLASCHKO M DDC NUMBER 400429  
KURRERA S INSTRUMENT AF/EOAR /0080/62  
PROJ/TASK 9777 01

AFOSRJ 177  
UPPSALA U SWEDEN  
EXCITABILITY PHENOMENA IN ARTIFICIAL MEMBRANES  
U S BIOPHYSICAL J 2 NO 2 27/25 1962 PART 2  
SUPPLEMENT  
BY TEORELL T DDC NUMBER 400430  
INSTRUMENT AF 61<052>00363  
PROJ/TASK 9777 01

AFOSRJ 178  
WEIZMAN INST OF SCIENCE REMOVOTM ISRAEL  
PHOTOPHOSPHORYLATION AS A TOOL FOR THE SYNTHESIS OF  
SPECIFICALLY LABELED NUCLEOTIDES  
ANALYTICAL BIOCHEMISTRY 60 S 6 2 535/543 DEC 1961  
BY AVRON M DDC NUMBER 400458  
INSTRUMENT AF 61<052>00390  
PROJ/TASK 9777 01

AFOSRJ 179  
BRUSSELS FREE U BELGIUM  
ON THE OCCURRENCE OF BACTERIAL MUTATIONS PERMITTING  
LYSOGENIZATION BY CLEAR VARIANTS OF TEMPERATE  
BACTERIOPHAGES  
J OF MOLECULAR BIOLOGY 5 373/374 1962  
BY THOMAS R DDC NUMBER 400461  
LAMBERT L INSTRUMENT AF/EOAR /0017/62  
PROJ/TASK 9777 01

AFOSRJ 180  
TOULOUSE U FRANCE  
LA REGULATION DES VOLUMES LIQUIDIENS  
CARIERS D ANESTHESIOLOGIE 10 NO 2 159/185 1962  
BY BAISSSET A DDC NUMBER 400460  
MONTASTRUC P INSTRUMENT AF 61<052>00411  
PROJ/TASK 9777 01

AFOSRJ 181  
TOULOUSE U FRANCE  
RECHERCHES SUR LA REGULATION VOLUMETRIQUE DE LA SECRETION  
DE L ALDOSTERONE  
ANNALES D ENDOCRINOLOGIE 25 NO 2 419/424 1962  
BY BAISSEY A DDC NUMBER 400052  
DOUSTE/BLAZY L INSTRUMENT AF 61<052>00411  
MONTASTRUC P PROJ/TASK 9777 01  
VALDIGUIE P

AFOSRJ 182  
PITTSBURGH U PA  
INTERMETALLIC COMPOUNDS BETWEEN LANTHANONS AND TRANSITION  
METALS OF THE FIRST LONG PERIOD  
J PHYS CHEM SOLIDS PERGAMON PRESS 16 129/130 1960  
BY WALLACE W F DDC NUMBER 400076  
INSTRUMENT AF 49<630>00979  
PROJ/TASK 9710 02

AFOSRJ 183  
COLUMBIA U NEW YORK N Y  
DISORIENTATION CROSS SECTIONS IN OPTICAL PUMPING  
J CHEM PHYS 37 2726/2727 1962  
BY MCNEAL R J DDC NUMBER 400071  
INSTRUMENT AF 49<630>00785  
PROJ/TASK 9760 02

AFOSRJ 184  
SOUTHAMPTON U ENGLAND  
THE REACTION OF TITANIUM HALIDES WITH TERTIARY AMINES  
J CHEM SOC 5 33/38 1963  
BY FOWLES G W A DDC NUMBER 400072  
HOODLESS R A INSTRUMENT AF/EOAR /0040/62  
PROJ/TASK 9710 02

AFOSRJ 185  
PRINCETON U N J  
VISUAL VELOCITY DISCRIMINATION. EFFECTS OF SPATIAL AND  
TEMPORAL CUES 6 OCTOBER 1962  
SCIENCE 30 437/438 OCT 1962  
BY NOTTERMAN J M DDC NUMBER 400178  
WINTZ D F INSTRUMENT AF 49<630>00381  
MANDRIOTA J S PROJ/TASK 9778 01

AFOSRJ 186  
NORTH CAROLINA U CHAPEL HILL  
ON THE THEOREMS OF PERRON AND PROBENIUS ON NON/NEGATIVE  
MATRICES  
STUD IN MATH ANA AND RELATED TOPICS 48/55 1962  
BY BRAUER A DDC NUMBER 400177  
INSTRUMENT AF 18<603>00038  
PROJ/TASK 9749 01

AFOSRJ 187  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
ON SHEAR/LAYOFF INSTABILITY, BREAKDOWN AND TRANSITION  
J OF FLUID MECHANICS 15 133/133 JULY 1962  
BY GREENSPAN M P DDC NUMBER 400176  
BERNEY INSTRUMENT AF 49<630>00708  
PROJ/TASK 9749 01

AFOSRJ 188  
GENERAL ELECTRIC CO PHILADELPHIA PA  
ARE ZERO VELOCITY CURVES ORBITS  
ARS J 32 NO 12 1938/1939 DEC 1962  
BY SZEBENEVY V G DDC NUMBER 400175  
INSTRUMENT AF 49<630>00814  
PROJ/TASK 9749 01

AFOSRJ 189  
RUTGERS STATE U NEW BRUNSWICK N J  
NUCLEAR MAGNETIC RESONANCE OF K3 129 IN NATURAL KENOM  
PHYS REV 121 20/25 JAN 1961  
BY STREEVER R L DDC NUMBER 428414  
CARR W INSTRUMENT AF 49<630>00755  
PROJ/TASK 9761 03

AFOSRJ 190  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
A CRITERION FOR THE EXISTENCE OF INERTIAL BOUNDARY LAYERS  
IN OCEANIC CIRCULATION  
PROC NATL ACAD SCI 48 NO 12 2034/2039 DEC 1962  
BY GREENSPAN M P DDC NUMBER 400172  
INSTRUMENT AF 49<630>00708  
PROJ/TASK 9749 01

AFOSRJ 191  
PISA U ITALY  
ELECTRORETINOGRAPHIC RESPONSES TO POLARIZED LIGHT IN THE  
WOLF/SPIDER, ARCTOSA VARIANA C. L. KOCK  
PAPPRINTIA 18 511 1962  
BY MAGNI P DDC NUMBER 400462  
PAPI P INSTRUMENT AF 61<052>00107  
SAVELY M E PROJ/TASK 9777 01  
YONGIORGI P

AFOSRJ 194  
PISA U ITALY  
THE MIDPONTINE PRETRIGEMINAL CAT  
ARCHIVES INTERNATIONALES DE PHARMACODYNAMIE ET DE THERAPIE  
ET DE THERAPIE 140 PACA 1/2 227/230 NOV 1962  
BY MORUZZI G DDC NUMBER 400179  
INSTRUMENT AF 61<052>00107  
PROJ/TASK 9777 01

AFOSRJ 195  
PISA U ITALY  
DIFFERENCES IN CORTICAL ACTIVITY DURING DESYNCHRONIZED  
SLEEP AND AROUSAL  
PROC INTL UNION OF PHYSIOLOGICAL SCIENCES XXII INTL CONG  
LEIDEN 1962  
BY ARDUINI A DDC NUMBER 400182  
INSTRUMENT AF 61<052>00107  
PROJ/TASK 9777 01

AFOSRJ 196  
GENOA U ITALY  
STUDIO DEI MECCANISMI DEL SONNO NEL GATTO. EFFETTI  
ELETTROENCEFALOGRAFICI DI LESIONI UNILATERALI  
DAL BOLLETTINO DELLA SOCIETA ITALIANA DI BIOLOGIA  
SPERIMENTALE 38 1137/1141 1962  
BY MINOMI K INSTRUMENT AF 61<052>00461  
CANDIA O PROJ/TASK 9777 01  
ROSSI G F

AFOSRJ 197  
GENOA U ITALY  
PERSISTENTE INSONNIA DA LESIONI CHIRURGICHE SPERIMENTALI  
DEL PONTE  
DAL BOLLETTINO DELLA SOCIETA ITALIANA DI BIOLOGIA  
SPERIMENTALE 38 1139/1141 1962  
BY CANDIA O INSTRUMENT AF 61<052>00461  
MINOME K PROJ/TASK 9777 01  
ROSSI G F

AFOSRJ 198  
CORNELL U ITHACA N Y  
FERMENTATION  
PHYSIOLOGY - BIOCHEMISTRY OF ALGAE 91/97 ACADEMIC PRESS  
NEW YORK 1962  
BY GIBBS M DDC NUMBER 400181  
INSTRUMENT AF 49<630>00798  
PROJ/TASK 9777 01

AFOSRJ 199  
CORNELL U ITHACA N Y  
RESPIRATION  
PHYSIOLOGY - BIOCHEMISTRY OF ALGAE 61/90 ACADEMIC PRESS  
NEW YORK 1962  
BY GIBBS M DDC NUMBER 400180  
INSTRUMENT AF 49<630>00798  
PROJ/TASK 9777 01

AFOSRJ 200  
LEICESTER U ENGLAND  
THE INFLUENCE OF GROWTH SUBSTRATES ON OXALOACETATE FORMATIO  
FROM BETA/HYDROXYASPARTATE BY MICROCOCCUS DENITRIFICANS  
BIOCHIM BIOPHYS ACTA 65 378/380 1962  
BY KORNBERG M L DDC NUMBER 400057  
MORRIS J G INSTRUMENT AF/EOAR /0077/62  
PROJ/TASK 9777 01

AFOSRJ 201  
LEICESTER U ENGLAND  
ENZYMIC FORMATION OF OXALOACETATE FROM ERYTHRO BETA/  
HYDROXYASPARTATE  
BIOCHIM BIOPHYS ACTA 56 537/540 1962  
BY KORNBERG M L DDC NUMBER 400058  
MORRIS J G INSTRUMENT AF/EOAR /0077/62  
PROJ/TASK 9777 01

AFOSRJ 202  
STOCKHOLM U SWEDEN  
OBSERVATIONS ON PIGEONS WITH PRETHALAMIC RADIOLESIONS IN TH  
NERVOUS PATHWAYS FROM THE TELENCEPHALON  
ACTA PHYSIOL SCAND 56 286/298 1962  
BY AKERMAN R DDC NUMBER 400059  
FABRICIUS F INSTRUMENT AF 61<052>00195  
LARSSON B PROJ/TASK 9777 01  
STEEN L

AFOSRJ 203  
ISTITUTO NAZIONALE DI OTTICA FLORENCE ITALY  
MEMORY FOR BRIGHTNESS. STIMULI OF SMALL SIZE, SURROUNDED B  
DARK  
ATTI DELLA FONDAZIONE GIORGIO RONCHI 17 NO 5 3/12  
SEP / OCT 1962  
BY CONTICELLI M DDC NUMBER 400064  
INSTRUMENT AF/EOAR /0034/61  
PROJ/TASK 9777 01

AFOSRJ 204  
ISTITUTO NAZIONALE DI OTTICA FLORENCE ITALY  
VISUAL EFFECTS PRODUCED BY A STIMULUS CONSISTING OF A NUMBE  
OF BLACK LINE SEGMENTS VIEWED ON A BRIGHT BACKGROUND  
ATTI DELLA FONDAZIONE GIORGIO RONCHI 17 NO 5 507/522  
SEP / OCT 1962  
BY RONCHI L DDC NUMBER 400446  
BOTTAI G INSTRUMENT AF/EOAR /0034/61  
PROJ/TASK 9777 01

AFOSRJ 206  
COMMUNICATION RESEARCH INST MIAMI FLA  
DISTRESS CALL OF THE BOTTLENOSE DOLPHIN. STIMULI AND  
EVOKED BEHAVIORAL RESPONSES  
SCIENCE 138 NO 3590 116/118 JAN 1963  
BY LILLY J C DDC NUMBER 400444  
INSTRUMENT AF/AFOSR /0062/61  
PROJ/TASK 9777 01

AFOSRJ 207  
COMMUNICATION RESEARCH INST MIAMI FLA  
VOCAL BEHAVIOR OF THE BOTTLENOSE DOLPHIN  
PROC AMER PHILOSOPHICAL SOC 106 NO 6 520/529 DEC  
1962  
BY LILLY J C DDC NUMBER 400179  
INSTRUMENT AF/AFOSR /0062/61  
PROJ/TASK 9777 01

AFOSRJ 208  
LONDON U ENGLAND  
CORRELATED ORIENTATION SOUNDS AND EAR MOVEMENTS OF  
HORSESHOE BATS  
NATURE 196 NO 4860 1185/1188 DEC 1962  
BY PYE J D DDC NUMBER 400178  
FLINN M INSTRUMENT AF/EOAR /0040/61  
PYE A PROJ/TASK 9777 01

AFOSRJ 209  
GOTEBORG U SWEDEN  
CHANGES IN THE BASE COMPOSITION OF NUCLEAR RIBONUCLEIC ACID  
OF NEURONS DURING A SHORT PERIOD OF ENHANCED PROTEIN  
PRODUCTION  
J OF CELL BIOLOGY 15 NO 1 37/44 1962  
BY HYDEN M DDC NUMBER 299893  
EGYMAZI F INSTRUMENT AF/EOAR /0029/62  
PROJ/TASK 9777 01

APOSRJ 210  
KAROLINSKA INST STOCKHOLM SWEDEN  
STUDIES ON THE ULTRASTRUCTURE OF DENTAL ENAMEL / I. THE  
ORIENTATION OF THE APATITE CRYSTALLITES AS DEDUCED FROM  
X-RAY DIFFRACTION  
ARCH ORAL BIOL 7 91/104 1962  
BY GLAS J F  
DOC NUMBER 400435  
INSTRUMENT AF 61<052>00386  
PROJ/TASK 9777 01

APOSRJ 211  
KAROLINSKA INST STOCKHOLM SWEDEN  
STUDIES ON THE ULTRASTRUCTURE OF DENTAL ENAMEL / VI.  
CRYSTAL CHEMISTRY OF SHARKS TEETH  
ODONTOLOGISK REVY 13 NO 4 315/326 1962  
BY GLAS J F  
DOC NUMBER 400171  
INSTRUMENT AF 61<052>00386  
PROJ/TASK 9777 01

APOSRJ 212  
TEXAS U MEDICAL BRANCH GALVESTON  
GANGLIONIC TRANSMISSION DURING THE NEOSTIGMINE PRESSOR  
RESPONSE  
22ND INTL CONGRESS IN LEIDEN INTL UNION OF PHYSIOL  
SCIENCES 2 176 1962  
BY MILTON J G  
DOC NUMBER 400436  
INSTRUMENT AF/APOSR /0241/62  
PROJ/TASK 9777 01

APOSRJ 213  
HARVARD U CAMBRIDGE MASS  
PHARMACOLOGICAL CONTROL OF THE SECRETION OF ACTH  
BIOCHEM PHARMACOLOGY 8 NO 1 PERGAMON PRESS 1ST INTL  
PHARM MTG STOCKHOLM AUG 1962  
BY MUNSON P L  
DOC NUMBER 400437  
INSTRUMENT AF 49<638>00740  
PROJ/TASK 9777 01

APOSRJ 214  
HARVARD U CAMBRIDGE MASS  
ENDOCRINE PHARMACOLOGY. SELECTED TOPICS  
ANNUAL REV OF PHARMACOLOGY 1 915/950 1961  
BY MUNSON P L  
DOC NUMBER 400050  
INSTRUMENT AF 49<638>00740  
PROJ/TASK 9777 01

APOSRJ 215  
BRUSSELS FREE U BELGIUM  
LA SYNTHÈSE DES ACIDES DESOXYRIBONUCLEIQUES CHEZ  
ESCHERICHIA COLI INFECTE PAR UN BACTERIOPHAGE TEMPERE. IV.  
REPLICATION GÉNÉTIQUE SOUS INHIBITION DE LA SYNTHÈSE DES  
PROTEINES ET DES ACIDES RIBONUCLEIQUES  
ARCH INTERNATIONALES DE PHYSIOLOGIE ET DE BIOCHIMIE 71  
NO 1 133/137 1963  
BY DA SILVA L M P  
THOMAS R  
INSTRUMENT AF/EOAR /0017/62  
PROJ/TASK 9777 01

APOSRJ 216  
BRUSSELS FREE U BELGIUM  
LA SYNTHÈSE DES ACIDES DESOXYRIBONUCLEIQUES CHEZ ESCHERICHIA  
COLI INFECTE PAR UN BACTERIOPHAGE TEMPERE. III. ASSOCIATION  
PAR UN CHANGEMENT DE MILIEU, DE LA SYNTHÈSE DES ACIDES  
DESOXYRIBONUCLEIQUES ET DES ACIDES RIBONUCLEIQUES  
ARCH INTERNATIONALES DE PHYSIOLOGIE ET DE BIOCHIMIE 71  
NO 1 133/135 1963  
BY PEREIRA DA SILVA L M  
THOMAS R  
INSTRUMENT AF/EOAR /0017/62  
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APOSRJ 217  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
CREEP ANALYSIS OF ANNULAR PLATES  
J FRANKLIN INST 13/23 JAN 1963  
BY VENKATRAMAN B  
PATEL S A  
INSTRUMENT AF/APOSR /0200/62  
PROJ/TASK 9782 01

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HARVARD U CAMBRIDGE MASS  
VARIATIONAL FORMULATIONS OF EQUILIBRIUM STATISTICAL  
MECHANICS  
J OF MATH PHYS 3 983/1002 SEPT /OCT 1962  
BY DE DOMINICIS C  
INSTRUMENT AF 49<630>00589  
PROJ/TASK 9751 01

APOSRJ 220  
TEXAS A AND M RESEARCH FOUNDATION COLLEGE STATION  
NUCLEAR MAGNETIC RELAXATION OF A THREE-SPIN ASYMMETRIC  
MOLECULE IN A LIQUID  
PHYS REV 126 1054/1056 MAY 1962  
BY KATTAUAR G W  
EISNER M  
DOC NUMBER 400439  
INSTRUMENT AF/APOSR /0151/62  
PROJ/TASK 9767 01

APOSRJ 221  
CAMBRIDGE U ENGLAND  
ANOMALOUS SINGULARITIES IN PHYSICAL REGIONS  
PHYS LETS 3 116/117 15 DEC 1962  
BY LAOSHOFF P V  
DOC NUMBER 400440  
INSTRUMENT AF/EOAR /0079/63  
PROJ/TASK 9751 01

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WESTERN ONTARIO U LONDON CANADA  
LABORATORY ASTROPHYSICS  
J QUANT SPECTROSC RADIAT TRANSFER 2 433/439 1962  
BY NICHOLLS R W  
DOC NUMBER 299880  
INSTRUMENT AF/APOSR /0236/62  
PROJ/TASK 9767 02

APOSRJ 223  
WESTERN ONTARIO U LONDON CANADA  
FRACKE/CONDON FACTORS AND RYMETROIDS TO HIGH VIBRATIONAL  
QUANTUM NUMBERS FOR THREE BAND SYSTEMS OF CO- AND ABSOLUTE  
BAND STRENGTHS FOR THE COMET/TAIL SYSTEM  
CANADIAN J PHYS 40 1772/1783 1962  
BY NICHOLLS R W  
DOC NUMBER 400442  
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PROJ/TASK 9767 02

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GAUGE INVARIANCE AND MASS. II  
PHYS REV 128 2425/2429 DEC 1962  
BY SCHWINGER J  
DOC NUMBER 400443  
INSTRUMENT AF 49<638>00589  
PROJ/TASK 9751 01

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MAGNETIC CHARACTERISTICS OF SOME INTERMETALLIC COMPOUNDS  
BETWEEN MANGANESE AND THE LANTHANIDE METALS  
J APPLIED PHYS 32 3605/4915 MAR 1961  
BY WALLACE W F  
INSTRUMENT AF 49<638>00979  
PROJ/TASK 9710 02

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BARCELONA U SPAIN  
OBSERVABLES OF RELATIVISTIC PARTICLES  
AMER J PHYS 30 887/890 DEC 1962  
BY GARRIDO L M  
SEFMA J  
INSTRUMENT AF/EOAR /0089/62  
PROJ/TASK 9767 03

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CREEP OF COMPRESSIBLE CIRCULAR PLATES  
INTL J MECH SCI 5 77/85 1963  
BY PATEL S A  
COZZARELLI F A  
VENKATRAMAN B  
DOC NUMBER 400445  
INSTRUMENT AF/APOSR /2001/62  
PROJ/TASK 9782 01

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STANFORD U CAL  
THE RESCATTERING CORRECTION TO THE DEUTERON  
ELECTRODISINTEGRATION  
IL NUOVO CIMENTO 26 604/612 NOV 1962  
BY ROSCO B  
DE BAR R B  
DOC NUMBER 400853  
INSTRUMENT AF 49<638>00388  
PROJ/TASK 9751 01

APOSRJ 232  
STANFORD U CAL  
HIGH-FREQUENCY REGION OF THE SPECTRUM OF ELECTRON AND  
POSITION BREMSSTRAHLUNG  
PHYS REV 129 184/190 JAN 1963  
BY JARRUS R J  
PRATT R W  
DOC NUMBER 400852  
INSTRUMENT AF 49<638>00388  
PROJ/TASK 9751 01

APOSRJ 233  
ISTITUTO NAZIONALE DI OTTICA FLORENCE ITALY  
A COMPARISON BETWEEN FOVEAL AND PERIPHERAL FLICKER  
SENSITIVITY FOR COLORED LIGHTS, AT PHOTOPIC LEVELS  
ATTI DELLA FONDAZIONE GIORGIO RONCHI 17 NO 6 623/627  
NOV / DEC 1962  
BY BITTINI M  
DOC NUMBER 400850  
INSTRUMENT AF/EOAR /0034/61  
PROJ/TASK 9777 01

APOSRJ 234  
ISTITUTO NAZIONALE DI OTTICA FLORENCE ITALY  
QUANTITATIVE ASPECTS OF THE BLUR/TO/SHARP TRANSITION  
ATTI DELLA FONDAZIONE GIORGIO RONCHI 17 NO 6 646/670  
NOV / DEC 1962  
BY RONCHI L  
DOC NUMBER 400848  
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PROJ/TASK 9777 01

APOSRJ 235  
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RED AND BLUE ELECTRORETINOGRAMS AT VARIOUS LUMINANCES  
ATTI DELLA FONDAZIONE GIORGIO RONCHI 17 NO 6 628/637  
NOV / DEC 1962  
BY ERCOLE A M  
DOC NUMBER 400847  
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ISTITUTO NAZIONALE DI OTTICA FLORENCE ITALY  
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AS A FUNCTION OF EXCENTRICITY  
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NOV / DEC 1962  
BY ERCOLE A M  
FIORENTINI A  
DOC NUMBER 400870  
INSTRUMENT AF/EOAR /0034/61  
PROJ/TASK 9777 01

APOSRJ 237  
PENNSYLVANIA U PHILADELPHIA  
A TRANSLATION TECHNIQUE FOR LANGUAGES WHOSE SYNTAX IS  
EXPRESSIBLE IN EXTENDED BACKUS NORMAL FORM  
PROC OF SYMPOSIUM INTERNAL COMPUTATION CENTER ROME  
GORDON - BREACH PUBLISHER 23/64 26/31 MAR 1962  
BY INGERMAN P Z  
DOC NUMBER 407528  
INSTRUMENT AF 49<638>00951  
PROJ/TASK 9769 02

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CELL FOR X-RAY DIFFRACTION STUDIES OF ABSORBING LIQUIDS  
REV OF SCIENTIFIC INSTRUMENTS 33 1649/1670 1962  
BY RODRIGUEZ S E  
PINGS C J  
DOC NUMBER 400872  
INSTRUMENT AF/APOSR /0141/62  
PROJ/TASK 9760 01

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AN ELECTRON IMPACT STUDY OF 1,1,1-TRIFLUOROETHANE, 1,1,1-  
TRIFLUOROPROPANE AND 3,3,3-TRIFLUOROPROPENE  
J AMER CHEM SOC 84 3650/3654 1962  
BY STEELE W C  
STONE F G A  
INSTRUMENT AF 49<638>00518  
PROJ/TASK 9762

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HARVARD U CAMBRIDGE MASS  
SILICON/SILICON BOND DISSOCIATION ENERGIES IN DISILANE AND  
METHYLSILANES  
J AMER CHEM SOC 84 3599 1962  
BY STEELE W C  
STONE P G A  
INSTRUMENT AF 49<638>00518  
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CYANOACETYLENE  
J CHEM PHYS 38 6972 1963  
BY DANHAUISFR W  
DDC NUMBER 400849  
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PHOTOCHEMICAL SYNTHESIS OF SULPHENES AND PHOTOCHEMICAL  
INTERMEDIATES  
CANADIAN J OF CHEM 41 100 1963  
BY KING J P  
DEWATO P  
MORVED F  
SATTER A B W A  
STOESSI A  
DDC NUMBER 400847  
INSTRUMENT AF/AFOSR /0006/61  
PROJ/TASK 9762 03

AFOSRJ 243  
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CHLORATE, PERCHLORATE AND NITRATE  
J ELECTROANAL CHEM 5 2716 1963  
BY KOLTHOFF I H  
MODARA K I  
DDC NUMBER 400871  
INSTRUMENT AF 49<638>00519  
PROJ/TASK 9763

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DOCUMENTATION INC BETHESDA MD  
A NOTE ON OBVERSION  
MIND 6716 541/542 OCT 1962  
BY JONES R M  
INSTRUMENT AF 49<638>01146  
PROJ/TASK 9769 06

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MECHANICAL PRAGMATICS. A TIME/MOTION STUDY OF A MINIATURE  
MECHANICAL LINGUISTIC SYSTEM  
COMMUNICATIONS OF THE ACM 5 576/589 DEC 1962  
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DDC NUMBER 407529  
INSTRUMENT AF 49<638>00951  
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NEW YORK STATE PSYCHIATRIC INST NEW YORK  
GLUTAMIC ACID METABOLISM IN BRAIN AND LIVER DURING INFUSION  
WITH AMMONIA LABELLED WITH NITROGEN EQUAL 15  
NATURE 189 NO 4761 326 JAN 1961  
BY TAKAGAKI G  
BERL S  
CLARKE D D  
PURPURA D P  
WAELSCH M  
DDC NUMBER 400874  
INSTRUMENT AF 49<638>00725  
PROJ/TASK 9777 01

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NEW YORK STATE PSYCHIATRIC INST NEW YORK  
INCORPORATION OF HISTAMINE INTO LIVER PROTEIN IN VIVO  
NATURE 191 NO 4794 1204/1205 SEP 1961  
BY WAJDA I  
GINSBURG M  
WAELSCH M  
DDC NUMBER 400873  
INSTRUMENT AF 49<638>00725  
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BY ROSSI C A  
BERL S  
CLARKE D D  
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AFOSRJ 249  
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CARBON DIOXIDE FIXATION IN THE BRAIN  
J BIOL CHEM 237 NO 8 2570/2575 AUG 1962  
BY BERL S  
TAKAGAKI G  
CLARKE D D  
WAELSCH M  
DDC NUMBER 400849  
INSTRUMENT AF 49<638>00725  
PROJ/TASK 9777 01

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METABOLIC COMPARTMENTS IN VIVO / AMMONIA AND GLUTAMIC ACID  
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J BIOL CHEM 237 NO 8 2562/2569 AUG 1962  
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TAKAGAKI G  
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WAELSCH M  
DDC NUMBER 400851  
INSTRUMENT AF 49<638>00725  
PROJ/TASK 9777 01

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CALIFORNIA U LA JOLLA  
COMPARATIVE SPECTRA OF MICROSETHS AND SWELL  
BUL SEIS SOC OF AMER 53 27/37 JAN 1963  
BY HAUBRICH R A  
MUNK W H  
SNODGRASS F E  
DDC NUMBER 400864  
INSTRUMENT AF 49<638>00905  
PROJ/TASK 9774 03

AFOSRJ 252  
YALE U NEW HAVEN CONN  
THEORETICAL VALUES FOR MAGNETIC MOMENTS OF MU/MESONIC ATOMS  
PHYS REV 129 194/201 JAN 1963  
BY FORD K W  
HUGHES V W  
DDC NUMBER 400863  
INSTRUMENT AF 49<638>00545  
PROJ/TASK 9767 03

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PROPAGATION OF ACOUSTIC/GRAVITY WAVES IN THE ATMOSPHERE  
J OF GEOPHY RESCH 67 3889/3908 SEP 1962  
BY PRESS F  
HARRKRIEGER D R  
DDC NUMBER 400866  
INSTRUMENT AF 49<638>00910  
PROJ/TASK 8652

AFOSRJ 254  
CALIFORNIA INST OF TECH PASADENA  
A REINTERPRETATION OF PHASE VELOCITY DATA BASED ON THE GNOM  
TRAVEL TIME CURVES  
BUL SEIS SOC OF AMER 52 1031/1035 DEC 1962  
BY SMITH S W  
DDC NUMBER 400865  
INSTRUMENT AF 49<638>00910  
PROJ/TASK 8652

AFOSRJ 256  
HEBREW U JERUSALEM ISRAEL  
THE STRUCTURE OF INTERPERSONAL BEHAVIOR IN THE DYAD  
MATH METHODS IN SMALL GROUP PROC 1962  
BY FOA U R  
DDC NUMBER 407860  
INSTRUMENT AF 61<052>00121  
PROJ/TASK 9778 02

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SYSTEM, OCT. 1962  
J MATH ANAL AND APPL 5 NO 2 306/315 OCT 1962  
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DDC NUMBER 400860  
INSTRUMENT AF 49<638>00514  
PROJ/TASK 9783

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ASYMPTOTIC VARIATIONAL FORMULAE FOR EIGENVALUES  
CANADIAN MATH BULL 6 NO 1 JAN 1963  
BY SWANSON C A  
DDC NUMBER 400839  
INSTRUMENT AF/AFOSR /0089/61  
PROJ/TASK 9769 01

AFOSRJ 260  
MARTIN MARIETTA CORP RIAS INC BALTIMORE MD  
ON THE STABILITY OF TIME/VARYING LINEAR SYSTEMS  
IRE TRANS ON CIRCUIT THEORY CT/9 420/422 1962  
BY KALMAN R P  
DDC NUMBER 400889  
INSTRUMENT AF 49<638>00382  
PROJ/TASK 9749 01

AFOSRJ 261  
LEICESTER U ENGLAND  
CRYSTALLINE L-ASPARTATE 4-CARBOXYLYASE  
BIOCHIM BIOPHYS ACTA 67 345/348 1963  
BY WILSON E W  
DDC NUMBER 400841  
INSTRUMENT AF/EOAR /0077/62  
PROJ/TASK 9777 01

AFOSRJ 262  
GENOVA U ITALY  
COMPARTAMENTO DELL'ELETTROENCEFALOGRAFIA  
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SONNO NEL CONIGLIO  
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SPERIMENTALE 38 1300/1302 1962  
BY ROMANINI F  
DE CAROLIS V  
PASTORINO P  
ROSSI G F  
INSTRUMENT AF 61<052>00461  
PROJ/TASK 9777 01

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SONNO SUPERFICIALE E SONNO PROFONDO NEL CANE. 6 STUDIO  
ELLITTOENCEFALOGRAFICO, ELETTRIOGRAFICO E PRESSORIO  
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SPERIMENTALE 38 1298/1300 1962  
BY ROMANINI F  
DE CAROLIS V  
PASTORINO P  
ROSSI G F  
INSTRUMENT AF 61<052>00461  
PROJ/TASK 9777 01

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CALIFORNIA U BERKELEY  
SOME OBSERVATIONS ON THE PHYSIOLOGICAL EFFECTS OF GASEOUS  
IONS  
INTL J BIOMETEOR 6 NO 1 33/40 1962  
BY KRUEGER A P  
KOTAKA S  
ANDRIOSE P C  
DDC NUMBER 400888  
INSTRUMENT AF 49<638>00669  
PROJ/TASK 9777

AFOSRJ 265  
HEBREW U JERUSALEM ISRAEL  
HYPERFINE INTERACTIONS IN THE GROUND STATE AND FIRST EXCITE  
STATE OF <sup>116</sup>Gd IN THULIUM IRON GARNET  
PHYS LETS 3 192/194 JAN 1963  
BY NOWIK I  
OFFER S  
DDC NUMBER 400887  
INSTRUMENT AF 61<052>00347  
PROJ/TASK 9761 03

AFOSRJ 267  
COLORADO U BOULDER  
PARAMAGNETIC RESONANCE OF Mn<sup>2+</sup> IN LIF  
J CHEM PHYS 38 571/572 JAN 1963  
BY CHANG T T  
TANTTILA W H  
DDC NUMBER 400886  
INSTRUMENT AF/AFOSR /0344/62  
PROJ/TASK 9763 01

AFOSRJ 268  
CALIFORNIA U LA JOLLA  
LOW-TEMPERATURE RESISTIVITY BEHAVIOUR OF MOLYBDENUM/IRON,  
NIOBIUM/IRON AND PALLADIUM/IRON ALLOYS  
PHILOSOPHICAL MAG 8 335/337 FEB 1963  
BY COLES B R  
DDC NUMBER 400884  
INSTRUMENT AF/AFOSR /0344/62  
PROJ/TASK 9761 02



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CALIFORNIA U RIVERSIDE  
INDIRECT EXCHANGE FERROMAGNETISM IN INSULATORS  
IL NUOVO CIMENTO 26 624/627 NOV 1962  
BY CALLAWAY J DDC NUMBER 400884  
INSTRUMENT AF/AFOSR /0318/62  
PROJ/TASK 9761 01

AFOSRJ 270  
ROCHESTER U N Y  
ULTRAVIOLET ABSORPTION OF SOLID ARGON, KRYPTON AND XENON  
PHYS REV 128 1562/1567 NOV 1962  
BY BALDINI G DDC NUMBER 400882  
INSTRUMENT AF/AFOSR /0145/62  
PROJ/TASK 9761 01

AFOSRJ 271  
PENNSYLVANIA STATE U UNIVERSITY PARK  
OCCURRENCE OF H<sub>2</sub> IN THE FIELD IONIZATION OF HYDROGEN  
J CHEM PHYS 37 2684/2687 DEC 1962  
BY CLEMENTS T C DDC NUMBER 400883  
MULLER F W INSTRUMENT AF/AFOSR /0096/62  
PROJ/TASK 9761 01

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MADRID U SPAIN  
DILATACION TERMICA DEL ACIDO OXALICO DIMIDRATADO ENTRE 105  
DEGREES C Y - 40 DEGREES C Y PRECESO DE DESHIDRATACION  
ROL R SOC ESP HIST NAT 60 195/211 1962  
BY NEIRA F DDC NUMBER 401098  
CANUT M L INSTRUMENT AF/FOAR /0092/62  
PROJ/TASK 9761 01

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MADRID U SPAIN  
SUPERFICIES DE CRISTALES. III. SUPERFICIES DE CRECIMIENTO Y  
FRACURA EN LA PIRITA  
ROL R SOC ESP HIST NAT 60 213/227 1962  
BY AMOROS J L DDC NUMBER 401102  
PASQUAL M T INSTRUMENT AF/FOAR /0092/62  
PROJ/TASK 9761 01

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MASSACHUSETTS INST OF TECH CAMBRIDGE  
ZEEMAN AND UNIAXIAL STRESS SPECTRA OF CAF<sub>2</sub> 6E2-6  
J CHEM PHYS 38 279/280 1963  
BY BUNCIAN W A DDC NUMBER 400881  
STAGER C V INSTRUMENT AF 194606507344  
PROJ/TASK 9764 00

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PENNSYLVANIA STATE U UNIVERSITY PARK  
DIRECT OBSERVATION OF CRYSTAL IMPERFECTIONS BY FIELD ION  
MICROSCOPY  
IMPERFECTIONS IN CRYSTALS INTERSCIENCE PUB 77/99 1961  
BY MULLER F W DDC NUMBER 400882  
INSTRUMENT AF 4946038000504  
PROJ/TASK 9761 01

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PHOTON CORRELATIONS  
PHYS REV LETS 10 84/86 FEB 1963  
BY GLAUBER R J DDC NUMBER 400880  
INSTRUMENT AF 4946038000589  
PROJ/TASK 9761 01

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YALE U NEW HAVEN CONN  
THE SEMICLASSICAL TREATMENT OF SOME QUANTUM PROBLEMS  
ZEITSCHRIFT FUR PHYS 171 149/170 1963  
BY BREIT G DDC NUMBER 400879  
INSTRUMENT AF/AFOSR /0042/62  
PROJ/TASK 9761 02

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WASHINGTON STATE U PULLMAN  
SUBSTITUENT EFFECTS IN PYROLYSIS. V. ALPHA/SIGMA PLUS  
CORRELATION IN THE PYROLYSIS OF 1-ARYLETHYL ACETATES  
J AMER CHEM SOC 84 4817/4824 1962  
BY SMITH G G DDC NUMBER 415329  
TAYLOR R INSTRUMENT AF 4946038000616  
WETZEL W INSTRUMENT AF/AFOSR /0006/62  
PROJ/TASK 9760

AFOSRJ 281  
WESTERN ONTARIO U LONDON CANADA  
PHOTOCHEMICAL SYNTHESIS. 6. THE FORMATION OF HEPTANONES  
FROM ACETYLACETONE AND ALKENES  
CANADIAN J OF CHEM 41 440/449 1963  
BY DEMAYO P DDC NUMBER 400848  
YAKUSHITA H INSTRUMENT AF/AFOSR /0006/62  
PROJ/TASK 9762 01

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MISSISSIPPI U UNIVERSITY  
TEMPERATURE CONTROL ATTACHMENTS FOR VARIABLE AND FIXED  
PATHLENGTH INFRARED CELLS  
CANADIAN J CHEM 41 812/814 1963  
BY DE MAINE P A D DDC NUMBER 400877  
INSTRUMENT AF/AFOSR /0019/62  
PROJ/TASK 9710 01

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WESTERN RESERVE U CLEVELAND OHIO  
ISOLATION OF VASOPRESSIN/CONTAINING GRANULES FROM THE  
NEUROPHYSIOLOGY OF THE DOG  
BIOCHEM BIOPHYS ACTA 50 386/389 1961  
BY WEINSTEIN H DDC NUMBER 400878  
MALAMED S INSTRUMENT AF 4946038000764  
SACHS H INSTRUMENT AF/AFOSR /0006/62  
PROJ/TASK 9777 01

AFOSRJ 284  
WESTERN RESERVE U CLEVELAND OHIO  
INACTIVATION OF ARGININE VASOPRESSIN BY RAT/KIDNEY SLICES  
BIOCHEM J 79 667/669 1961  
BY SMITH M W DDC NUMBER 400876  
SACHS H INSTRUMENT AF 4946038000764  
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PROJ/TASK 9777 01

AFOSRJ 285  
TEXAS TECHNOLOGICAL COLL LUBBOCK  
ION RADICALS. II. THE ESR SPECTRA OF 2, 7-DIMETHYL AND  
2, 7-DICHLOROMTHIANTHRENE IN CONCENTRATED SULFURIC ACID  
J CHEM PHYS 38 569/570 JAN 1963  
BY SWINE M J DDC NUMBER 400802  
DAIS C P INSTRUMENT AF/AFOSR /0023/63  
SMALL J R INSTRUMENT AF/AFOSR /0023/63  
PROJ/TASK 9762 03

AFOSRJ 286  
TEXAS TECHNOLOGICAL COLL LUBBOCK  
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J AMER CHEM SOC 84 4798/4806 1962  
BY SWINE M J DDC NUMBER 400875  
PIETTE L INSTRUMENT AF/AFOSR /0023/63  
PROJ/TASK 9762 03

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ILLINOIS U URBANA  
AUGER ELECTRON EJECTION FROM SUPERCONDUCTING METALS.  
IL NUOVO CIMENTO 27 257/260 1963  
BY CRAIG R A DDC NUMBER 435653  
INSTRUMENT AF 4946038001048  
PROJ/TASK 9761 03

AFOSRJ 289  
CALIFORNIA INST OF TECH PASADENA  
OPTICAL DETERMINATION OF THE COMPRESSIBILITY OF SOLID ARGON  
J CHEM PHYS 38 825/857 1963  
BY PINGS C J DDC NUMBER 408020  
INSTRUMENT AF/AFOSR /0141/62  
PROJ/TASK 9760 01

AFOSRJ 290  
CALIFORNIA INST OF TECH PASADENA  
OPTICAL CELL FOR PRESSURIZED SOLIDS AND LIQUIDS AT CRYOGENIC  
TEMPERATURES  
REV OF SCIENTIFIC INSTRUMENTS 34 19/21 JAN 1963  
BY PINGS C J DDC NUMBER 408018  
INSTRUMENT AF/AFOSR /0141/62  
PROJ/TASK 9760 01

AFOSRJ 291  
STANFORD U CAL  
FAINT SIGNAL LIMITATIONS OF RADIOMETERS  
IRE WESCON CONV RECORD PT 8 52/58 1959  
BY COLVIN R S DDC NUMBER 408017  
INSTRUMENT AF 184603300053  
PROJ/TASK 9767 02

AFOSRJ 292  
STANFORD U CAL  
ANTENNA TOLERANCE THEORY  
STATISTICAL METHODS OF RADIO WAVE PROPAGATION UNIVERSITY  
PRESS BELFAST N IRELAND 179/183 1960  
BY BRACEWELL R N DDC NUMBER 408019  
INSTRUMENT AF 184603300053  
PROJ/TASK 9767 02

AFOSRJ 293  
STANFORD U CAL  
PRELIMINARY OBSERVATIONS WITH THE STANFORD MICROWAVE  
INTERFEROMETER  
MTG OF ASTRONOMICAL SOC OF THE PACIFIC SAN FRAN  
537/539 JUNE 1959  
BY CLARACK D D DDC NUMBER 408021  
INSTRUMENT AF 184603300053  
PROJ/TASK 9767 02

AFOSRJ 294  
STANFORD U CAL  
RADIO ASTRONOMY TECHNIQUES  
HANDBUCH DE PHYSIK 42/129 1962  
BY BRACEWELL R N DDC NUMBER 408486  
INSTRUMENT AF 184603300053  
PROJ/TASK 9767 02

AFOSRJ 295  
STANFORD U CAL  
CORRECTION FOR GRATING RESPONSE IN RADIO ASTRONOMY  
ASTROPHYSICAL J 137 175/183 JAN 1963  
BY BRACEWELL R N DDC NUMBER 408043  
INSTRUMENT AF 184603300053  
PROJ/TASK 9767 02

AFOSRJ 296  
YALE U NEW HAVEN CONN  
GASFOUS OPTICAL MASERS  
APPLIED OPTICS SUPPLEMENT ON OPTICAL MASERS 24/61 1962  
BY BENNETT JR W R DDC NUMBER 412347  
INSTRUMENT AF/AFOSR /0463/62  
PROJ/TASK 9767 02

AFOSRJ 297  
ARKANSAS U FAYETTEVILLE  
POLARIZATION OF OPTICAL RADIATION INDUCED BY ELECTRON IMPACT  
ON H<sub>2</sub> I<sub>2</sub>  
PHYS REV 129 1630/1637 FEB 1963  
BY HUGHES R M DDC NUMBER 408041  
KAY R R INSTRUMENT AF/AFOSR /0159/62  
WEAVER L D INSTRUMENT AF/AFOSR /0159/62  
PROJ/TASK 9767 01

AFOSRJ 298  
BARCELONA U SPAIN  
ACTION PRINCIPLE FOR CLASSICAL FIELDS  
PHYSICS 28 1324/1328 1962  
BY SANCHO F J DDC NUMBER 408040  
INSTRUMENT AF/FOAR /0089/62  
PROJ/TASK 9767 01

AFOSRJ 300  
PRINCETON U N J  
RED GIANTS OF POPULATION II. II  
ASTROPHYSICAL J 136 158/165 JUL 1962  
BY SCHWARZSCHILD M DDC NUMBER 408038  
WARM R INSTRUMENT AF 4946038000298  
PROJ/TASK 9774 01

APOSRJ 301  
PRINCETON U N J  
RED GIANTS OF POPULATION II. I  
ASTROPHYSICAL J 136 NO 1 150/197 JUL 1962  
BY SCHWARZSCHILD M DDC NUMBER 408019  
SFLERBERG M INSTRUMENT AF 49638000298  
PROJ/TASK 9776 01

APOSRJ 302  
OXFORD U ENGLAND  
THE SODIUM CONTENT OF THE SMOOTH MUSCLE OF THE GUINEA/PIG  
TAENIA COLI  
J PHYSIOL 163 411/422 1962  
BY GOODFORD P J DDC NUMBER 408044  
INSTRUMENT AF 61<052>00476  
PROJ/TASK 9777 01

APOSRJ 303  
OXFORD U ENGLAND  
SODIUM AND POTASSIUM CONTENT OF THE SMOOTH MUSCLE OF THE  
GUINEA/PIG TAENIA COLI AT DIFFERENT TEMPERATURES AND  
TENSIONS  
J PHYSIOL 163 399/410 1962  
BY FREEMAN/NARROD M DDC NUMBER 408044  
GOODFORD P J INSTRUMENT AF 61<052>00476  
PROJ/TASK 9777 01

APOSRJ 304  
OXFORD U ENGLAND  
LACK OF ACTIVATION OF PHOSPHORYLASE BY ADRENALINE DURING  
ITS PHYSIOLOGICAL EFFECT ON INTESTINAL SMOOTH MUSCLE  
NATURE 196 NO 4858 944/946 DEC 1962  
BY BUEBING F DDC NUMBER 408045  
BULBRING E INSTRUMENT AF 61<052>00476  
KURIYAMA H PROJ/TASK 9777 01

APOSRJ 305  
OXFORD U ENGLAND  
EFFECTS OF NITRATE ON THE ELECTRICAL AND MECHANICAL ACTIVIT  
OF INTESTINAL SMOOTH MUSCLE  
BIOCHEMICAL PHARMACOLOGY STOCKHOLM 8 NO 1 PERGAMON  
PRESS AUG 1961  
BY ARELSSON J DDC NUMBER 408047  
INSTRUMENT AF 61<052>00476  
PROJ/TASK 9777 01

APOSRJ 306  
OXFORD U ENGLAND  
SODIUM EXCHANGE IN SMOOTH MUSCLE  
BIOCHEMICAL PHARMACOLOGY STOCKHOLM 8 NO 1 PERGAMON  
PRESS AUG 1961  
BY GOODFORD P J DDC NUMBER 408046  
INSTRUMENT AF 61<052>00476  
PROJ/TASK 9777 01

APOSRJ 307  
OXFORD U ENGLAND  
THE UPTAKE OF ETHANESULPHONATE/355 IONS BY MUSCULAR TISSUE  
J PHYSIOL 161 54/61 1962  
BY GOODFORD P F DDC NUMBER 408049  
LULLMANN H INSTRUMENT AF 61<052>00476  
PROJ/TASK 9777 01

APOSRJ 308  
OXFORD U ENGLAND  
SPIKE GENERATION BY INTESTINAL SMOOTH MUSCLE DURING COMPLETE  
ABSENCE OF SODIUM IN THE EXTERNAL MEDIUM  
BIOCHEMICAL PHARMACOLOGY STOCKHOLM 8 NO 1 PERGAMON  
PRESS AUG 1961  
BY BULBRING F DDC NUMBER 408050  
KURIYAMA H INSTRUMENT AF 61<052>00476  
PROJ/TASK 9777 01

APOSRJ 309  
OXFORD U ENGLAND  
MOTILITY OF THE INTESTINE  
PROC OF ROYAL SOCIETY OF MEDICINE 94 NO 9 775/775 SEP  
1961  
BY BULBRING F DDC NUMBER 408051  
INSTRUMENT AF 61<052>00476  
PROJ/TASK 9777 01

APOSRJ 310  
OXFORD U ENGLAND  
INFLUENCE OF SODIUM AND CALCIUM ON SPONTANEOUS SPIKE  
GENERATION IN SMOOTH MUSCLE  
J OF PHYSIOL 161 48/49 JAN 1962 PROC OF THE PHYSIOL  
SOC 11 JAN 62  
BY BULBRING F DDC NUMBER 408052  
KURIYAMA H INSTRUMENT AF 61<052>00476  
TWAROG B PROJ/TASK 9777 01

APOSRJ 311  
OXFORD U ENGLAND  
ELECTRICAL ACTIVITY IN INTESTINAL SMOOTH MUSCLE  
PHYSIOL REV 42 NO 3 160/178 JULY 1962  
BY BULBRING F DDC NUMBER 408053  
INSTRUMENT AF 61<052>00476  
PROJ/TASK 9777 01

APOSRJ 312  
CHILE U SANTIAGO  
ELECTROENCEPHALOGRAPH IN THE PERMANENTLY ISOLATED FOREBRAIN  
OF THE CAT  
SCIENCE 138 NO 3536 44/46 OCT 1962  
BY VILLABLANCA J DDC NUMBER 408054  
INSTRUMENT AF/APOSR /0092/62  
PROJ/TASK 9777 01

APOSRJ 313  
LIVERPOOL U ENGLAND  
BETA/HYDROXYASPARTATE PATHWAY. A NEW ROUTE FOR  
BIOSYNTHESIS FROM GLYOXYLATE  
NATURE 197 NO 4866 456/457 FEB 1963  
BY KORNBERG M L DDC NUMBER 408078  
MORRIS J G INSTRUMENT AF/EOAR /0077/62  
PROJ/TASK 9777 01

APOSRJ 314  
CENTRE NATIONAL D-ETUDES DE LA RECHERCHE SCIENTIFIQUE  
LYON FRANCE  
EFFET DE L'ACTION MYCINE D SUR LA SYNTHÈSE INDUITE DE LA  
BETA/GALACTOSIDASE ET LA SYNTHÈSE DU RNA SPECIFIQUE PAR UNE  
FRACTION SUBCELLULAIRE D'ESCHERICHIA COLI K 12  
C R ACAD SC 256 523/526 JAN 1963  
BY NISMAN B INSTRUMENT AF/EOAR /0050/62  
PELMONT J PROJ/TASK 9777 01  
DEMAILLY J  
YARO A

APOSRJ 315  
CENTRE NATIONAL D-ETUDES DE LA RECHERCHE SCIENTIFIQUE  
LYON FRANCE  
SYNTHÈSE DE RNA A PARTIR DE NUCLEOSIDES TRIPHOSPHATES; PAR  
UNE FRACTION SUBCELLULAIRE PARTICULAIRE D'E. COLI POSSEDANT  
LA RNA/POLYMERASE  
C R ACAD SC 256 801/804 JAN 1963  
BY PELMONT J INSTRUMENT AF/EOAR /0050/62  
YARO A INSTRUMENT AF/EOAR /0050/62  
DEMAILLY J PROJ/TASK 9777 01  
NISMAN B

APOSRJ 316  
UPPSALA U SWEDEN  
SEARCH FOR TWO-QUANTUM DECAY OF IN 114M  
NUCLEAR PHYS 18 648/653 1962  
BY GRABOWSKI Z DDC NUMBER 408027  
GUSTAFSON C INSTRUMENT AF/EOAR /0123/62  
RACKSTRÖM G PROJ/TASK 9751 02

APOSRJ 317  
CATHOLIC U OF AMERICA WASHINGTON D C  
PARTIAL AND TOTAL CAPTURE PROBABILITIES OF NEGATIVE MUONS B  
C12  
PHYS REV 129 866/869 15 JAN 1963  
BY RUEL M DDC NUMBER 408026  
BRENNAN J G INSTRUMENT AF/APOSR /0056/62  
PROJ/TASK 9751 01

APOSRJ 318  
LON ON U IMPERIAL COLL OF SCIENCE AND TECH ENGLAND  
PRODUCTION OF STRANGE PARTICLES IN PROTON/NEUTRON COLLISION  
IL NUOVO CIMENTO 27 164/177 JAN 1963  
BY CURTIS W D DDC NUMBER 408025  
INSTRUMENT AF/EOAR /0087/62  
PROJ/TASK 9751 01

APOSRJ 319  
MAX-PLANCK-INST FÜR AERONOMIE LINDAU WEST GERMANY  
SUDDEN INCREASE OF RADIATION INTENSITY COINCIDING WITH A  
GEOMAGNETIC STORM SUDDEN COMMENCEMENT  
J OF GEOPHYSICAL RESCH 67 5143/5146 1962  
BY KROPLER R INSTRUMENT AF/EOAR /0098/62  
FANFROT A PROJ/TASK 9774 02  
PFOTZER G  
ORTNER J

APOSRJ 320  
ROCHESTER U N Y  
ENERGY DISSIPATION FROM EXCITED ACETALDEHYDE MOLECULES  
J AMER CHEM SOC 84 416/421 1962  
BY NOYES JR W A DDC NUMBER 408023  
PARMINTER C S INSTRUMENT AF 49638000679  
PROJ/TASK 9760 02

APOSRJ 321  
COLUMBIA U NEW YORK N Y  
ALTERNATING LINEWIDTHS IN THE ESR SPECTRA OF DINITROBENZENE  
ANION RADICALS  
J CHEM PHYS 37 1881/1882 1962  
BY FRIED J H INSTRUMENT AF 49638000520  
FEIGER P H PROJ/TASK 9710 01  
FRAENKEL G K

APOSRJ 322  
COLUMBIA U NEW YORK N Y  
ANOMALOUS ALTERNATING LINEWIDTHS IN ESR SPECTRA  
J CHEM PHYS 37 1156/1157 1962  
BY FRIED J INSTRUMENT AF 49638000520  
FRAENKEL G K PROJ/TASK 9710 01

APOSRJ 323  
COLUMBIA U NEW YORK N Y  
ELECTRON SPIN RESONANCE OF AZULENE ANION RADICALS  
J CHEM PHYS 37 1489/1495 1962  
BY RIEGER P P INSTRUMENT AF 49638000520  
FRAENKEL G K PROJ/TASK 9710 01

APOSRJ 324  
PRINCETON U N J  
ENTIRE FUNCTIONS IN SEVERAL VARIABLES WITH CONSTANT ABSOLUTE  
VALUES ON A CIRCULAR UNIQUENESS SET  
PROC AMER MATH SOC 11 117/120 FEB 1962  
BY ROCHNER S INSTRUMENT AF 49638000578  
PROJ/TASK 9749 02

APOSRJ 325  
PRINCETON U N J  
SUBORDINATION OF NON-GAUSSIAN STOCHASTIC PROCESSES  
PROC NATL ACAD OF SCI 48 19/22 JAN 1962  
BY ROCHNER S INSTRUMENT AF 49638000578  
PROJ/TASK 9749 02

APOSRJ 326  
PRINCETON U N J  
THE ROLE OF MATHEMATICS IN THE RISE OF MECHANICS  
AMER SCIENTIST 40 296/311 JUNE 1962  
BY ROCHNER S INSTRUMENT AF 49638000478  
PROJ/TASK 9749 02

AFOSRJ 327  
 SYRACUSE U RESEARCH INST N Y  
 MEROMORPHIC FUNCTIONS WITH VALUES THAT ARE BOTH DEFICIENT  
 AND ASYMPTOTIC  
 STUDIES IN MATH ANALYSIS AND RELATED TOPICS STANFORD  
 PRESS 13 93/103 1962  
 BY FORRELL A  
 INSTRUMENT AF 49C638>00571  
 PROJ/TASK 9749 02

AFOSRJ 328  
 SYRACUSE U RESEARCH INST N Y  
 ON MEROMORPHIC FUNCTIONS WITH REGIONS FREE OF POLES AND  
 ZEROS  
 ACTA MATH 108 113/145 DEC 1962  
 BY FORRELL A DDC NUMBER 428408  
 FUCHS W H J INSTRUMENT AF 49C638>00571  
 PROJ/TASK 9749 02

AFOSRJ 329  
 MASSACHUSETTS MENTAL HEALTH CENTER BOSTON  
 NORMS ON THE HARVARD GROUP SCALE OF HYPNOTIC SUSCEPTIBILITY  
 FORM A 619636  
 INTL J OF CLINICAL AND EXPER HYPNOSIS 11 39/47 1963  
 BY SHORE R F DDC NUMBER 408012  
 DWNE D C INSTRUMENT AF 49C638>00728  
 PROJ/TASK 9779 01

AFOSRJ 330  
 NORTH CAROLINA U CHAPEL HILL  
 ON THE ROLE OF GRAVITATIONAL FIELDS IN SOME ELEMENTARY  
 PARTICLE PROCESSES  
 IL NUOVO CIMENTO 25 1239/1269 SEP 1962  
 BY HALPERN L DDC NUMBER 408007  
 INSTRUMENT AF/AFOSR /0072/61  
 PROJ/TASK 9751 03

AFOSRJ 331  
 STANFORD U CAL  
 NUCLEAR EXCITATION BY 160 DEG ELECTRON SCATTERING  
 PHYS REV 128 2750/2759 DEC 1962  
 BY FINE R D DDC NUMBER 408008  
 PETERSON G A INSTRUMENT MONR /25116  
 PROJ/TASK 9751 01

AFOSRJ 332  
 CALIFORNIA U LOS ANGELES  
 SYSTEMATICS OF BETA/DECAY MATRIX ELEMENTS  
 PROC OF RUTHERFORD JUBILEE INTL CONF 689/695 1962  
 BY MOSZKOWSKI S A DDC NUMBER 408009  
 INSTRUMENT AF 49C638>00717  
 PROJ/TASK 9751 02

AFOSRJ 333  
 CALIFORNIA U LOS ANGELES  
 SPINOR FIELDS IN SPACES WITH TORSION  
 ANNALS OF PHYSICS 12 200/221 1961  
 BY FINKELSTEIN R DDC NUMBER 408010  
 INSTRUMENT AF 49C638>00717  
 PROJ/TASK 9751 02

AFOSRJ 334  
 CALIFORNIA U LOS ANGELES  
 ELEMENTARY INTERACTIONS IN SPACES WITH TORSION  
 ANNALS OF PHYSICS 19 223/249 1961  
 BY FINKELSTEIN R DDC NUMBER 408055  
 INSTRUMENT AF 49C638>00717  
 PROJ/TASK 9751 02

AFOSRJ 335  
 CALIFORNIA U LOS ANGELES  
 IMAGINARY PART OF THE OPTICAL MODEL POTENTIAL IN NUCLEAR  
 MATTER  
 NUCL PHYS 21 456/461 1960  
 BY SAMICHI J DDC NUMBER 408056  
 MOSZKOWSKI S A INSTRUMENT AF 49C638>00717  
 PROJ/TASK 9751 02

AFOSRJ 336  
 CALIFORNIA U LOS ANGELES  
 THE PARAMETERS OF THE OPTICAL MODEL POTENTIAL AND THEIR  
 PHYSICAL INTERPRETATION  
 PROC INTL CONF NUCL STRUCTURE KINGSTON CHAP 3 197/  
 211 1960  
 BY SARON D S DDC NUMBER 408057  
 INSTRUMENT AF 49C638>00717  
 PROJ/TASK 9751 02

AFOSRJ 337  
 CALIFORNIA U LOS ANGELES  
 NUCLEAR MATTER CALCULATIONS USING THE SEPARATION METHOD  
 NUCL PHYS 29 665/671 1962  
 BY SCOTT R L DDC NUMBER 408065  
 MOSZKOWSKI S A INSTRUMENT AF 49C638>00717  
 PROJ/TASK 9751 02

AFOSRJ 338  
 CALIFORNIA U BERKELEY  
 COMPLEX ANGULAR MOMENTUM IN RELATIVISTIC S/MATRIX THEORY  
 PHYS REV 127 974/977 AUG 1962  
 BY BARUT A O DDC NUMBER 408059  
 ZWANDIGER D F INSTRUMENT AF 49C638>00572  
 PROJ/TASK 9751 01

AFOSRJ 339  
 CALIFORNIA U LOS ANGELES  
 DETERMINATION OF THE FORWARD SCATTERING AMPLITUDE FROM THE  
 OPTICAL MODEL POTENTIAL IN THE HIGH-ENERGY LIMIT  
 PHYS REV 120 1458/1459 NOV 1960  
 BY LIPPERHEINE R DDC NUMBER 408058  
 SARON D S INSTRUMENT AF 49C638>00717  
 PROJ/TASK 9751 02

AFOSRJ 340  
 WASHINGTON U ST LOUIS MO  
 PROTON MAGNETIC RESONANCE STUDIES IN SODIUM/AMMONIA  
 SOLUTIONS  
 J OF CHEM PHYS 38 202/209 JAN 1963  
 BY HIGGS JR T R DDC NUMBER 408060  
 INSTRUMENT AF/AFOSR /0345/62  
 PROJ/TASK 9767 01

AFOSRJ 342  
 CALIFORNIA U BERKELEY  
 HEAT CONTENT OF PLATINUM  
 J CHEM AND ENGIN DATA 7 516/518 OCT 1962  
 BY KENDALL W B DDC NUMBER 408022  
 ORR R L INSTRUMENT AF 49C638>00083  
 MULTGREEN R PROJ/TASK 9761 03

AFOSRJ 343  
 LYON U FRANCE  
 ETUDE POLYGRAPHIQUE DU SOMMEIL CHEZ L'AGNEAU  
 COMPT REND 156 1411/1414 JUN 1962  
 BY JOUVET D INSTRUMENT AF 61C052>00472  
 VALATS J L PROJ/TASK 9778 01

AFOSRJ 344  
 LYON U FRANCE  
 STUDY OF OCULAR MOVEMENTS OBSERVED IN MAN DURING AWAKENING  
 AND SLEEP  
 COMPT REND 156 1407/1410 JUN 1962  
 BY JFARFROD M INSTRUMENT AF 61C052>00472  
 MOURET J PROJ/TASK 9778 01

AFOSRJ 345  
 LYON U FRANCE  
 SUR L'EXISTENCE D'UN SYSTEME HYPNIQUE PORTO/LIMBIQUE. SES  
 RAPPORTS AVEC L'ACTIVITE ONIRIQUE  
 COLL INTL DU CTR NATL DE LA RECH SCI PHYSIOLOGIE DE L  
 HIPPOCAMPE 107 297/330 AUG 1961  
 BY JOUVET M INSTRUMENT AF 61C052>00472  
 PROJ/TASK 9778 01

AFOSRJ 346  
 GENERAL ELECTRIC CO SCHENECTADY N Y  
 TRAPPING AND ENERGY TRANSFER IN ATOMIC COLLISIONS WITH A  
 CRYSTAL SURFACE  
 J CHEM PHYS 38 523/532 1963  
 BY ENRICH G INSTRUMENT AF 49C638>00791  
 MCCARROLL B PROJ/TASK 9760 03

AFOSRJ 347  
 MASSACHUSETTS MENTAL HEALTH CENTER BOSTON  
 THE EFFECT OF DICHOTIC NOISE ON AUDITORY LOCALIZATION  
 619626  
 J AUDITORY RECH 2 305/310 1962  
 BY FREDMAN S J DDC NUMBER 408004  
 PRAFF D W INSTRUMENT AF/AFOSR /0026/61  
 PROJ/TASK 9778 03

AFOSRJ 348  
 MASSACHUSETTS MENTAL HEALTH CENTER BOSTON  
 TRADING RELATIONS BETWEEN DICHOTIC TONE AND INTENSITY  
 DIFFERENCES IN AUDITORY LOCALIZATION 619626  
 J AUDITORY RECH 2 311/318 1962  
 BY FREDMAN S J DDC NUMBER 407119  
 PRAFF D W INSTRUMENT AF/AFOSR /0026/61  
 PROJ/TASK 9778 03

AFOSRJ 349  
 KAROLINSKA INST STOCKHOLM SWEDEN  
 STUDIES ON THE ULTRASTRUCTURE OF DENTAL ENAMEL. III.  
 THE BIREFRINGENCE OF HUMAN ENAMEL  
 J ULTRASTRUCTURE RES B 1/11 1963  
 BY CARLSTROM D DDC NUMBER 408062  
 GLAS J E INSTRUMENT AF 61C052>00386  
 PROJ/TASK 9777 01

AFOSRJ 350  
 KAROLINSKA INST STOCKHOLM SWEDEN  
 STUDIES ON THE ULTRASTRUCTURE OF DENTAL ENAMEL. IV. THE  
 MINERALIZATION OF NORMAL HUMAN ENAMEL  
 J ULTRASTRUCTURE RES B 12/23 1963  
 BY ANGHAR B DDC NUMBER 408006  
 CAROLSTROM B INSTRUMENT AF 61C052>00386  
 GLAS J E PROJ/TASK 9777 01

AFOSRJ 351  
 KAROLINSKA INST STOCKHOLM SWEDEN  
 STUDIES ON THE ULTRASTRUCTURE OF DENTAL ENAMEL. V. THE  
 STATE OF WATER IN HUMAN ENAMEL  
 J ULTRASTRUCTURE RES B 24/29 1963  
 BY CARLSTROM D DDC NUMBER 408005  
 GLAS J E INSTRUMENT AF 61C052>00386  
 ANGHAR B PROJ/TASK 9777 01

AFOSRJ 343  
 RENNESLAER POLYTECHNIC INST TROY N Y  
 VIBRATIONS OF TWISTED BEAMS II  
 QUART OF APPL MATH 16 NO 4 305/395 JAN 1962  
 BY BOYCE W DDC NUMBER 408030  
 HANDELMAN G INSTRUMENT AF 49C638>00962  
 PROJ/TASK 9749 01

AFOSRJ 344  
 RENNESLAER POLYTECHNIC INST TROY N Y  
 LATERAL VIBRATIONS OF A BEAM UNDER INITIAL LINEAR AXIAL  
 STRESS  
 J SOC INDUST APPL MATH 9 NO 3 455/473 SEP 1961  
 BY TU Y DDC NUMBER 408029  
 HANDELMAN G H INSTRUMENT AF 49C638>00962  
 PROJ/TASK 9749 01

AFOSRJ 346  
 HARVARD U CAMBRIDGE MASS  
 THE DETERMINATION OF SILICON/CARBON AND SILICON/HYDROGEN  
 BOND DISSOCIATION ENERGIES BY ELECTRON IMPACT  
 J AMER CHEM SOC 84 4441/4445 1962  
 BY STEELE W C DDC NUMBER 408031  
 NICHOLS L D INSTRUMENT AF 49C638>00518  
 STON F G A PROJ/TASK 9762

AFOSRJ 358  
GRUMMAN AIRCRAFT ENGINEERING CORP BETHPAGE N Y  
GUIDANCE THEORY AND EXTREMAL FIELDS  
IRE TRANS AUTO CONTROL AC/7 79/82 MAY 1962  
BY KELLEY M J  
DDC NUMBER 408032  
INSTRUMENT AF 29<600>02733  
PROJ/TASK 9749 01

AFOSRJ 359  
HARVARD U CAMBRIDGE MASS  
CHEMISTRY OF THE METAL CARBONYLS. PART XII. NEW COMPLEXES  
DERIVED FROM MANGANESE PENTA CARBONYL HYDRIDE,  
CYCLOPENTADIENYLMOLYBDENUM TRICARBONYL HYDRIDE, AND  
CYCLOPENTADIENYL/TUNGSTEN TRICARBONYL HYDRIDE  
J AMER CHEM SOC 85 720/723 1963  
BY TREICHEL P M  
MORRIS J H  
STONE F G A  
DDC NUMBER 412991  
INSTRUMENT AF 49<630>00518  
PROJ/TASK 9762

AFOSRJ 360  
FLORIDA STATE U TALLAHASSEE  
ENERGY TRANSFER IN HYDROGEN/BONDED N/HETEROCYCLIC COMPLEXES  
AND THEIR POSSIBLE ROLE AS ENERGY SINKS  
J CHEM PHYS 34 2101/2102 JUNE 1962  
BY ASHAF M  
FL/RAVOUNI  
KASHA M  
DDC NUMBER 411957  
INSTRUMENT AF 49<630>00712  
PROJ/TASK 9760

AFOSRJ 361  
FLORIDA STATE U TALLAHASSEE  
IONIZATION POTENTIALS OF BENZENE, HEXADEUTEROBENZENE, AND  
PYRIDINE FROM THEIR OBSERVED RYDBERG SERIES IN THE REGION  
600/2000A  
J CHEM PHYS 36 334/335 JAN 1961  
BY FL/SAVED M F A  
KASHA M  
TANAKA Y  
DDC NUMBER 408593  
INSTRUMENT AF 49<630>00712  
PROJ/TASK 9760

AFOSRJ 362  
HERNER AND CO WASHINGTON D C  
THE DETERMINATION OF USER NEEDS FOR THE DESIGN OF  
INFORMATION SYSTEMS  
INFORMATION SYSTEMS WORKSHOPS SPARTAN BOOKS PUBL 47/60  
1967  
BY HERNER S  
DDC NUMBER 407890  
INSTRUMENT AF 49<630>00903  
PROJ/TASK 9769 02

AFOSRJ 364  
OXFORD U ENGLAND  
THE DECAY OF K MESIC ATOMS  
NUCLEAR PHYS 39 479/505 1962  
BY ROOK J R  
DDC NUMBER 408599  
INSTRUMENT AF 61<052>00455  
PROJ/TASK 9751 02

AFOSRJ 365  
CAMBRIDGE U ENGLAND  
THE ALUMINIUM/TECHNETIUM SYSTEM. THE NEW PHASES TCAL12,  
TCAL4 AND TCAL3  
PHILOSOPHICAL MAG 8 NO 06 349 FEB 1963  
BY DALTE DA VEIGA L M  
DDC NUMBER 407712  
INSTRUMENT AF/EOAR /0024/61  
PROJ/TASK 9761 03

AFOSRJ 366  
SOUTH CAROLINA U COLUMBIA  
MILLIMETER WAVE TRANSMISSION BY NON/WAVEGUIDE MEANS  
MICROWAVE J 80/86 MAY 1962  
BY FELLERS R G  
INSTRUMENT AF 18<603>00043  
PROJ/TASK 9767 02

AFOSRJ 367  
ISTITUTO ELETROTECNICO NAZIONALE TURIN ITALY  
APPARATUS FOR THERMOLUMINESCENCE MEASUREMENTS  
REV OF SCI INSTRUMENTS 33 1095/1100 OCT 1962  
BY BONFIGLIOLI G  
BROVETTO P  
CORTESE C  
DDC NUMBER 408591  
INSTRUMENT AF 61<052>00320  
PROJ/TASK 9763 02

AFOSRJ 368  
PRINCETON U N J  
LEADING EDGE OF A SHOCK/INDUCED BOUNDARY LAYER  
PHYS OF FLUIDS 9 1160/1160 OCT 1962  
BY SICHEL M  
DDC NUMBER 408590  
INSTRUMENT AF 49<630>00445  
PROJ/TASK 9781 01

AFOSRJ 369  
TEXAS U AUSTIN  
APPROACH AND AVOIDANCE AFFILIATION MOTIVES  
J PERSONALITY 31 21/37 MAR 1963  
BY BYRNE D  
MCDONALD R D  
MIKAWA J  
DDC NUMBER 408583  
INSTRUMENT AF/AFOSR /0261/63  
PROJ/TASK 9778 02

AFOSRJ 370  
CORNELL U ITHACA N Y  
EXPECTED NEAR INFRARED RADIATION FROM INTERSTELLAR MOLECULAR  
HYDROGEN  
ASTROPHYSICAL J 137 NO 2 694/697 FEB 63  
BY GOULD R J  
HARWIT M  
DDC NUMBER 408582  
INSTRUMENT AF/AFOSR /0191/62  
PROJ/TASK 9767 02

AFOSRJ 371  
ILLINOIS U URBANA  
A MICROWAVE FREQUENCY DYNAMIC CROSSED/FIELD PHOTOMULTIPLIER  
PROC IEEE 51 NO 1 153/162 JAN 1963  
BY GADY O L  
MOLSHOUSER D F  
DDC NUMBER 407328  
INSTRUMENT AF/AFOSR /0250/62  
PROJ/TASK 9767 02

AFOSRJ 372  
DUKE U DURHAM N C  
PSYCHOPHYSIOLOGICAL STUDIES IN ALTERED SENSORY ENVIRONMENTS  
619636  
J PSYCHOSOMATIC RSCH 6 259/281 1963  
BY COHEN I  
SILVERMAN A J  
SHAWHANIAN R W  
DDC NUMBER 406452  
INSTRUMENT AF 49<630>00354  
PROJ/TASK 9779 01

AFOSRJ 373  
NORTHWESTERN U EVANSTON ILL  
INTERNATIONAL SIMULATION. AN EXAMPLE OF SELF/ORGANIZING  
SYSTEM  
SELF/ORGANIZING SYSTEMS MCVOVITS G T JACOBI G D  
GOLDSTEIN SPARTAN BOOKS WASH D C 79/92 1962  
BY GUETZKOW M  
DDC NUMBER 407630  
INSTRUMENT AF/AFOSR /0063/62  
PROJ/TASK 9779 02

AFOSRJ 374  
PURDUE RESEARCH FOUNDATION LAFAYETTE IND  
A CONVENIENT SYNTHESIS OF AROMATIC AND ALIPHATIC SODIUM  
SULFINATES  
J ORG CHEM 28 593 1963  
BY TRUCE W F  
ROBERTS JR F E  
DDC NUMBER 408402  
INSTRUMENT AF 49<630>00531  
PROJ/TASK 9762 01

AFOSRJ 375  
CHICAGO U ILL  
KINETIC THEORY OF DENSE FLUIDS. XII. ELECTRONIC AND IONIC  
MOTION IN LIQUID ME4 I AND LIQUID ME3  
J CHEM PHYS 37 1521/1527 1962  
BY DAVIS M T  
RICE S A  
MEYER L  
INSTRUMENT AF/AFOSR /0052/61  
PROJ/TASK 9760 01

AFOSRJ 376  
CHICAGO U ILL  
EXCITON/EXCITON INTERACTIONS AND PHOTOCONDUCTIVITY IN  
CRYSTALLINE ANTHRACENE  
J CHEM PHYS 38 366/373 1963  
BY CHOI S  
RICE S A  
INSTRUMENT AF/AFOSR /0052/61  
PROJ/TASK 9760 01

AFOSRJ 377  
CHICAGO U ILL  
EXCITON/EXCITON INTERACTIONS AND PHOTOCONDUCTIVITY IN  
ORGANIC CRYSTAL  
PHYS REV LETS 8 410/412 MAY 1962  
BY CHOI S  
RICE S A  
INSTRUMENT AF/AFOSR / / 7/61  
PROJ/TASK 9760 01

AFOSRJ 378  
CHICAGO U ILL  
ON THE KINETIC THEORY OF DENSE FLUIDS. XIII. THE MOBILITY  
OF NEGATIVE IONS IN LIQUID AR, KR, RE  
J CHEM PHYS 37 2470/2472 1962  
BY DAVIS M T  
RICE S A  
MEYER L  
INSTRUMENT AF/AFOSR /0052/61  
PROJ/TASK 9760 01

AFOSRJ 379  
CHICAGO U ILL  
ON THE KINETIC THEORY OF SIMPLE DENSE FLUIDS. XI.  
EXPERIMENTAL AND THEORETICAL STUDIES OF POSITIVE ION  
MOBILITY IN LIQUID AR, KR, AND Xe  
J CHEM PHYS 37 947/956 1962  
BY DAVIS M T  
RICE S A  
MEYER L  
INSTRUMENT AF/AFOSR /0052/61  
PROJ/TASK 9760 01

AFOSRJ 381  
GENOVA U ITALY  
NEW CONSIDERATIONS ON THE PHYSIOPATHOLOGIC MECHANISMS IN THE  
VARIATIONS OF CONSCIENCE  
MINERVA NEUROCHIRURGICA 6 NO 6 129/141 OCT /DEC 1962  
BY ROSSI G F  
INSTRUMENT AF/EOAR /0106/62  
PROJ/TASK 9777 01

AFOSRJ 382  
WASHINGTON U ST LOUIS MO  
PRIMARY COSMIC/RAY ALPHA PARTICLES/III  
IL NUOVO CIMENTO 26 1292/1300 1962  
BY FRIEDLANDER M W  
SPRING C T  
DDC NUMBER 406451  
INSTRUMENT AF/AFOSR /0404/62  
PROJ/TASK 9774 02

AFOSRJ 383  
MARYLAND U COLLEGE PARK  
SINGULAR PARTIAL DIFFERENTIAL EQUATIONS AND THEIR  
APPLICATIONS  
PROC OF THE SYMP OF FLUID DYNAMICS AND APPLIED MATH U  
OF MD 29/49 1961  
BY WEINSTEIN A  
DDC NUMBER 406449  
INSTRUMENT AF 49<630>00220  
PROJ/TASK 9749 01

AFOSRJ 387  
RENSSELAER POLYTECHNIC INST TROY N Y  
THE BENDING OF COLUMNS UNDER AXIAL LOADS OF RANDOM  
ECCENTRICITY  
DEVELOPMENTS IN MECHANICS I 143/152 1961  
BY ROYCE W  
INSTRUMENT AF 49<630>00962  
PROJ/TASK 9749 01

AFOSRJ 388  
CALIFORNIA U BERKELEY  
MICROSCOPIC BASIS OF MACROSCOPIC MAGNETOSTATIC ENERGY  
J OF CHEM PHYS 37 NO 9 1900/1990 NOV 1962  
BY FAIFMAN A N  
SODA T  
DDC NUMBER 408290  
INSTRUMENT AF/AFOSR /0121/62  
PROJ/TASK 9767 01

AFOSRJ 389  
LINDO U SWEDEN  
IDFAS REGARDING RECEPTION DESENSITIZATION AT THE MOTOR END/  
FLATE  
REV CANAD BIOL 21 NO 2/3 229/236 1962  
BY ELMQVIST D DDC NUMBER 408249  
THESLEFF S INSTRUMENT AF/AFOSR /0028/62  
PROJ/TASK 9777 01

AFOSRJ 390  
FRANKLIN INST PHILADELPHIA PA  
STATISTICAL AVERAGING OF GP<sub>2</sub> PL<sub>26</sub> ANGULAR DISTRIBUTIONS TO  
OBTAIN FZAM MIXING RATIOS FOR Z2  
J PHYS CHEM SOLIDS 24 1053/1054 1963  
BY MEMOTRA B N DDC NUMBER 408592  
INSTRUMENT AF/AFOSR /0369/62  
PROJ/TASK 9767 01

AFOSRJ 391  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
AN EXPERIMENTAL INVESTIGATION OF A TWO/LAYER INVISCID SMOCK  
CAP DUE TO BLUNT/BODY NOSE  
J FLUID MECH 15 442/448 1963  
BY HARRON J R DDC NUMBER 408546  
ALZNER J R INSTRUMENT AF 49638000245  
PROJ/TASK 9781 02

AFOSRJ 392  
CALIFORNIA U BERKELEY  
AURORAL ZONE X/RAY PULSATIONS IN THE 1/70 15/SECOND PERIOD  
RANGE  
J OF GEOPHYSICAL RSCH 68 1023/1034 FEB 1963  
BY ANGER C D DDC NUMBER 411878  
BARCUS J R INSTRUMENT AF/AFOSR /0422/62  
BROWN R R PROJ/TASK 9774 02  
EVANG D S

AFOSRJ 393  
CALIFORNIA U BERKELEY  
SINGULARITIES IN ANGULAR MOMENTUM OF THE SCATTERING  
AMPLITUDE FOR A CLASS OF SOLUBLE POTENTIALS  
PHYS REV 128 1383/1393 NOV 1962  
BY GALLEGARD F DDC NUMBER 411908  
INSTRUMENT AF/AFOSR /0373/62  
PROJ/TASK 9751 01

AFOSRJ 394  
CALIFORNIA U BERKELEY  
ANALYTICITY IN ANGULAR MOMENTUM OF THE RELATIVISTIC MANY/  
CHANNEL S MATRIX FROM DISPERSION RELATIONS - UNITARITY  
PHYS REV 128 1959/1963 NOV 1962  
BY BARIT A D DDC NUMBER 411909  
INSTRUMENT AF/AFOSR /0373/62  
PROJ/TASK 9751 01

AFOSRJ 397  
INST DE NEUROLOGIA MONTEVIDEO URUGUAY  
NEUROPHYSIOLOGY OF LEARNING  
5TH MEDICAL CONGRESS OF URUGUAY MONTEVIDEO URUGUAY 1 5/2  
1962  
BY GARCIA AUSTE E DDC NUMBER 408293  
INSTRUMENT AF/AFOSR /0331/62  
PROJ/TASK 9777 01

AFOSRJ 398  
INST DE NEUROLOGIA MONTEVIDEO URUGUAY  
SENSORY HABITATION IN THE HUMAN  
5TH MEDICAL CONGRESS OF URUGUAY MONTEVIDEO URUGUAY 1  
20/44 1962  
BY BOGACZ J DDC NUMBER 408293  
VANZULLI A INSTRUMENT AF/AFOSR /0331/62  
PROJ/TASK 9777 01

AFOSRJ 399  
INST DE INVESTIGATION DE CIENCIAS BIOLOGICAS  
MONTEVIDEO URUGUAY  
STIMULATION OF THE LIMBIC SYSTEM AND LEARNING  
5TH MEDICAL CONGRESS OF URUGUAY MONTEVIDEO URUGUAY 1  
41/71 1962  
BY GALEANO C DDC NUMBER 408293  
INSTRUMENT AF/AFOSR /0332/62  
PROJ/TASK 9777 01

AFOSRJ 400  
CALIFORNIA U LA JOLLA  
PROBING SEA/BOTTOM SEDIMENTS WITH MICROSEISMIC NOISE MARCH  
1961  
J OF GEOPHY RSCH 58 NO 6 1788/1791 MAR 1963  
BY BHADNER H DDC NUMBER 407881  
INSTRUMENT AF/AFOSR /0420/62  
PROJ/TASK 9774 03

AFOSRJ 402  
BRUSSELS FREE U BELGIUM  
NEUROPHYSIOLOGICAL MECHANISMS IN CEREBRAL AROUSAL  
CIBA FOUND SYMP ON THE NATURE OF SLEEP 30/30 J - A  
CHURCHILL LTD LONDON 1961  
BY BREMER F DDC NUMBER 414104  
INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 403  
BRUSSELS FREE U BELGIUM  
NEUROGENIC FACTORS INFLUENCING THE EVOKED POTENTIALS OF THE  
CEREBRAL CORTX  
SENSORY COMMUNICATION JOHN WILEY - SONS 1961  
BY BREMER F DDC NUMBER 414104  
INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 404  
BRUSSELS FREE U BELGIUM  
WEDENSKI INHIBITION IN THE CEREBRAL CORTX  
J OF PHYSIOLOGY 42 34/34 MAY 1960  
BY BREMER F DDC NUMBER 416715  
STOUFFEL N INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 405  
BRUSSELS FREE U BELGIUM  
STEREOTAXIC STIMULATION OF EFFERENT PATHWAYS IN THE  
AUDITORY NERVOUS SYSTEM OF THE CAT  
ARCHIVES INTERNATIONALES DE PHARMACODYNAMIE ET THERAPIE  
132 492/494 1961  
BY DESMEDI J F DDC NUMBER 414104  
MONACO P INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 406  
BRUSSELS FREE U BELGIUM  
MONT OF ACTION OF THE EFFERENT OLIVO/COCHLEAR BUNDLE ON THE  
INNER EAR  
NATURE 192 NO 4809 1263/1264 DEC 1961  
BY DESMEDI J F DDC NUMBER 414104  
MONACO P INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 407  
BRUSSELS FREE U BELGIUM  
MECHANISM OF THE RETICULAR FORMATIONS ACTION ON THE  
REACTIVE ACTIVITY OF THE CEREBRAL CORTX  
COMPTES RENDUS DES SEANCES DE L ACADEMIC DES SCIENCES 296  
2041/2043 MAR 1962  
BY BONNET V DDC NUMBER 414104  
INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 408  
BRUSSELS FREE U BELGIUM  
FROM SENSATION TO ACTION  
BULLETIN DE L ACADEMIC ROYALE DE BELGIQUE 45 1148 1158  
1949  
BY BREMER F DDC NUMBER 414104  
INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 409  
BRUSSELS FREE U BELGIUM  
NERVOUS REGULATIONS OF CORTICAL ACTIVITY  
ARCHIVES SUISSES DE NEUROLOGIE NEUROCHIRURGIE ET  
PSYCHIATRIE 86 34/48 1960  
BY BREMER F DDC NUMBER 414104  
INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 410  
BRUSSELS FREE U BELGIUM  
ANALYSIS OF THE CORTICAL PROCESSES IN AROUSAL  
MOSCOW COLLOQUIUM ON ELECTROENCEPHALOGRAPHY OF HIGHER  
NERVOUS ACTIVITY SUPP 13 OF ELECTROENCEPHALOG - CLIN  
NEUROPHYSIOL 1960  
BY BREMER F DDC NUMBER 414104  
INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 411  
BRUSSELS FREE U BELGIUM  
OSCILLOGRAPHIC ANALYSIS OF EVOKED POTENTIALS OF CORTICAL  
RECEPTOR AREAS  
ARCH INTERNATIONALES DE PHYSIOLOGIE ET DE BIOCHIMIE 69  
NO 5 609/616 1961  
BY BONNET V DDC NUMBER 414104  
INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 412  
BRUSSELS FREE U BELGIUM  
THE EVOKED POTENTIAL OF THE VISUAL CORTICAL AREA 6  
NEUROPHYSIOLOGIE UND PSYCHOPHYSIK DES VISUELLEN SYSTEMS  
FREIBURG GERMANY PUR SPRINGER/VORLAGBERLIN SEPT 1960  
BY BREMER F DDC NUMBER 414104  
INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 413  
BRUSSELS FREE U BELGIUM  
STUDY OF AN INHIBITORY PHENOMENON OF WEDENSKI AT THE  
CORTICAL LEVEL 6  
ARCH ITAL BIOL 100 399/416 1962  
BY BREMER F DDC NUMBER 414180  
STOUFFEL N INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 414  
BRUSSELS FREE U BELGIUM  
NEW INVESTIGATIONS ON FACILITATION - INHIBITION OF EVOKED  
CORTICAL POTENTIALS IN RETICULAR AROUSAL 6  
ARCH ITAL BIOL 98 229/247 1960  
BY BREMER F DDC NUMBER 414104  
STOUFFEL N VAN REETH P C INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 415  
BRUSSELS FREE U BELGIUM  
EFFECTS OF ILLUMINATION OF THE EYE ON THE VESTIBULAR  
RESPONSES IN THE PIGEON  
ACTA OTO/LARYNGOLOGICA 51 420/422 MAR 1960  
BY VAN EYCK M DDC NUMBER 414104  
INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 416  
BRUSSELS FREE U BELGIUM  
ELECTROPHYSIOLOGICAL STUDY OF THE CEREBELLO/CEREBRAL  
RELATIONS IN THE CAT  
COMPTES RENDUS DES SEANCES DE L ACADEMIC DES SCIENCES 293  
2137/2139 NOV 1961  
BY STOUFFEL N DDC NUMBER 414104  
INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 417  
BRUSSELS FREE U BELGIUM  
THOUGHTS ON THE PROCESS OF CENTRAL INHIBITION 6  
ARCH INT PHARMACODYN 129 NO 1/2 152/158 SEP 1962  
BY BREMER F DDC NUMBER 414104  
INSTRUMENT AF 61<052>00120  
PROJ/TASK 9777 01

AFOSRJ 418  
BRUSSELS FREE U BELGIUM  
SUPPRESSION BY STRYCHNINE OF THE CENTRIFUGAL INHIBITORY  
EFFECT PRODUCED BY THE OLIVO/COCHLEAR FASCICLE  
ARCHIVES INTERNATIONALES DE PHARMACODYNAMIE ET DE THERAPIE  
129 244/248 1960  
BY DESMETS J E  
MONACO P  
INSTRUMENT AF 61C05200120  
PROJ/TASK 9777 01

AFOSRJ 419  
BRUSSELS FREE U BELGIUM  
ELECTROPHYSIOLOGICAL STUDY OF BINOCULAR INTERACTION IN THE  
CORTICAL VISUAL AREA OF THE CAT  
COMPTES RENDUS DES SEANCES DE L ACADEMIC DES SCIENCES 225  
2040/2043 OCT 1962  
BY BREMER F  
DDC NUMBER 414188  
INSTRUMENT AF 61C05200120  
PROJ/TASK 9777 01

AFOSRJ 420  
BRUSSELS FREE U BELGIUM  
THE ACTIVATOR RETICULAR SYSTEM  
CONFERENCE AU COLLOQUE SUR LA NEUROLEPTANALISIE OSTENDE  
APR 1961  
BY BREMER F  
DDC NUMBER 414186  
INSTRUMENT AF 61C05200120  
PROJ/TASK 9777 01

AFOSRJ 421  
BRUSSELS FREE U BELGIUM  
SLEEP CAUSED IN THE RABBIT BY STRONG CEPHALIC AND CERVICAL  
STIMULATION  
COMPTES RENDUS DES SEANCES DE L ACADEMIC DES SCIENCES 255  
3050/3052 NOV 1962  
BY VAN REETH P  
CAPON A  
DDC NUMBER 414187  
INSTRUMENT AF 61C05200120  
PROJ/TASK 9777 01

AFOSRJ 422  
BRUSSELS FREE U BELGIUM  
NEUROPHYSIOLOGICAL MECHANISMS CONTROLLING ACOUSTIC INPUT  
NEURAL MECHANISMS OF THE AUDITORY - VESTIBULAR SYSTEMS CHA  
II 152/164 PUB CM THOMAS SPRINGFIELD 1960  
BY DESMETS J E  
INSTRUMENT AF 61C05200120  
PROJ/TASK 9777 01

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BRUSSELS FREE U BELGIUM  
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1243  
BY BREMER F  
DDC NUMBER 402694  
INSTRUMENT AF 61C05200120  
PROJ/TASK 9777 01

AFOSRJ 424  
NORTH CAROLINA STATE COLL RALEIGH  
DUAL SERIES RELATIONS  
LECTURE SERIES BY DR SNEDDON N C STATE U 1/81 MAR  
1963  
BY SNEDDON I  
INSTRUMENT AF 49C63800159  
PROJ/TASK 9769 03

AFOSRJ 425  
DELAWARE U NEWARK  
THE NEWCOMERS ACCEPTANCE IN OPEN AND CLOSED GROUPS 619626  
PERSONNEL ADMINISTRATION 25 24/31 SEP 1962  
BY ELLER R C  
DDC NUMBER 407716  
INSTRUMENT AF/AFOSR /0095/62  
PROJ/TASK 9778 02

AFOSRJ 426  
MARYLAND U COLLEGE PARK  
ON A MEAN/VALUE THEOREM OF THE DIFFERENTIAL CALCULUS OF  
VECTOR/VALUED FUNCTIONS, AND UNIQUENESS THEOREMS FOR  
ORDINARY DIFFERENTIAL EQUATIONS IN A LINEAR/NORMED SPACE  
6 JUL 19626  
CONTRIBUTIONS TO DIFF EQUA 1 NO 2 251/271 1963  
BY AZIZ A K  
DEAS J R  
DDC NUMBER 407247  
INSTRUMENT AF 49C63800228  
PROJ/TASK 9769 01

AFOSRJ 427  
YALE U NEW HAVEN CONN  
ON THE EXISTENCE OF A THIRD INTEGRAL OF MOTION  
ASTRONOMICAL J 68 NO 1 1/14 FEB 1963  
BY CONTOPOULOS G  
DDC NUMBER 407246  
INSTRUMENT AF/AFOSR /0380/62  
PROJ/TASK 9769 01

AFOSRJ 428  
BRUSSELS FREE U BELGIUM  
CORTICOFUGAL PROJECTIONS FROM TEMPORAL LOBE IN CAT AND THEIR  
POSSIBLE ROLE IN ACOUSTIC DISCRIMINATION  
J OF PHYSIOLOGY 147 17/18 1959  
BY DESMETS J E  
MECHSELSE W  
INSTRUMENT AF 61C0514001112  
PROJ/TASK 9777 01

AFOSRJ 430  
BRUSSELS FREE U BELGIUM  
THE INTERPRETATION OF ELECTRICAL POTENTIALS OF THE CEREBRAL  
CORTEX  
STRUCTURE - FUNCTION OF THE CEREBRAL CORTEX 2ND INTL MTG  
OF NEUROLOGISTS AMSTERDAM 1959  
BY BREMER F  
INSTRUMENT AF 61C0514001112  
PROJ/TASK 9777 01

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BRUSSELS FREE U BELGIUM  
PROGRESSIVE SENSITIZATION OF A PARTIALLY DENERVATED  
CORTICAL AREA TO ITS RESIDUAL AFFERENTS  
COMPTES RENDUS DES SEANCES DE LA SOCIETE DE BIOLOGIE 151  
NO 12 2204/2208 DEC 1957  
BY FRANKEN I  
DESMETS J E  
DDC NUMBER 407714  
INSTRUMENT AF 61C05200120  
PROJ/TASK 9777 01

AFOSRJ 432  
COLUMBIA U NEW YORK N Y  
HYPERFINE STRUCTURE OF THE METASTABLE 64P64556 3P2 STATE  
OF 36KR83  
PHYS REV 129 NO 3 1214/1220 FEB 1963  
BY FAUST W L  
CHIU L Y  
DDC NUMBER 407901  
INSTRUMENT AF 49C63800557  
PROJ/TASK 9767 01

AFOSRJ 433  
WASHINGTON U ST LOUIS MO  
ELECTRON DELocalIZATION INVOLVING SILICON IN IONS DERIVED  
FROM BIS 6262 BIPHENYLENE SILANE  
J OF AMER CHEM SOC 85 822 1963  
BY CONELL R D  
URRY G  
WETZMAN S I  
DDC NUMBER 407900  
INSTRUMENT AF/AFOSR /0365/62  
PROJ/TASK 9767 01

AFOSRJ 434  
COLUMBIA U NEW YORK N Y  
MICROWAVE SPECTRUM, SPECTROSCOPIC CONSTANTS, AND ELECTRIC  
DIPOLE MOMENT OF LiF19  
J OF CHEM PHYS 38 1203/1210 MAR 1963  
BY WHARTON L  
KLEMPFERER W  
GOLD L P  
STRAUCH R  
GALLAGHER J J  
DEWY V F  
DDC NUMBER 407113  
INSTRUMENT AF 49C63800557  
PROJ/TASK 9767 01

AFOSRJ 436  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
EXTERNAL HYPERSONIC FLOWS  
J AEROSPACE ENGR 22 23/31 NO 1 JAN 1963  
BY FERRI A  
VAGLIO/LAURIN R  
DDC NUMBER 407897  
INSTRUMENT AF 49C63800217  
PROJ/TASK 9769 01

AFOSRJ 437  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
BIOTS VARIATIONAL PRINCIPLE IN HEAT CONDUCTION  
AIAA J 1 NO 1 196/206 JAN 1963  
BY LARDNER J J  
INSTRUMENT AF/AFOSR /0200/62  
PROJ/TASK 9762 01

AFOSRJ 439  
MINNESOTA U MINNEAPOLIS  
CALCULATED AND EXPERIMENTAL CONDUCTOMETRIC TITRATION CURVES  
OF INTERMEDIATELY STRONG ACIDS AND BASES IN ACETONITRILE  
J AMER CHEM SOC 85 426/430 1963  
BY KOLTHOFF I M  
CHANTOONI JR M K  
DDC NUMBER 408603  
INSTRUMENT AF 49C63800519  
PROJ/TASK 9769 01

AFOSRJ 440  
PITTSBURGH U PA  
THE PHOTOINITIATED AXYLATION OF TRIVALENT PHOSPHORUS  
COMPOUNDS  
J ORGANIC CHEM 27 4711/4712 1962  
BY GRIFFIN C E  
DDC NUMBER 408601  
INSTRUMENT AF/AFOSR /0048/62  
PROJ/TASK 9762 01

AFOSRJ 441  
NORTH CAROLINA U CHAPEL HILL  
ON SOME CONNECTIONS BETWEEN THE DESIGN OF EXPERIMENTS AND  
INFORMATION THEORY  
BULL OF THE INTERNATIONAL STAT INST 38 PT 4 257/271  
1961  
BY ROSE R C  
DDC NUMBER 408294  
INSTRUMENT AF/AFOSR /0084/63  
PROJ/TASK 9769 02

AFOSRJ 442  
PISA U ITALY  
A TOPOLOGICAL PROPERTY OF RUNGE PAIRS  
ANNALS OF MATH 76 499/509 NOV 1962  
BY ANDREOTTI A  
NARASIMHAN P  
DDC NUMBER 413771  
INSTRUMENT AF/OSAR /0035/62  
PROJ/TASK 9769 02

AFOSRJ 443  
MINNESOTA U MINNEAPOLIS  
THE ILSTON AND FEYNMAN INTEGRALS  
ILSTON AND FEYNMAN INTEGRALS J ANALYSE MATH 10  
287/361 1962/63  
BY CAMERON R H  
INSTRUMENT AF/AFOSR /0242/62  
PROJ/TASK 9769 02

AFOSRJ 444  
CALIFORNIA U BERKELEY  
HOMOTOPY/ARFELIAN TOPOLOGICAL GROUPS  
TOP 1 237/240 1962  
BY JAMES I  
THOMAS F  
INSTRUMENT AF/AFOSR /0346/63  
PROJ/TASK 9769 02

AFOSRJ 445  
CALIFORNIA U BERKELEY  
ON THE MOD 2 COHOMOLOGY OF CERTAIN M/SPACES  
COMMENTARIJ MATHEMATICA HELVETICA 37 NO 2 132/140 1962  
BY THOMAS F  
DDC NUMBER 407114  
INSTRUMENT AF/AFOSR /0346/63  
PROJ/TASK 9769 02

AFOSRJ 446  
RICE U HOUSTON TEX  
THE DETERMINATION OF A COEFFICIENT IN A PARABOLIC  
DIFFERENTIAL EQUATION PART II. NUMERICAL APPROXIMATION  
J NOV 19626  
J MATH AND MECH 11 NO 6 919/926 NOV 1963  
BY DOUGLAS JR J  
JONES JR R F  
DDC NUMBER 407114  
INSTRUMENT AF/AFOSR /0233/62  
PROJ/TASK 9769 02

AFOSRJ 447  
RICE U HOUSTON TEX  
NUMERICAL METHODS FOR INTEGRO-DIFFERENTIAL EQUATIONS OF  
PARABOLIC AND HYPERBOLIC TYPES  
NUMERISCHE MATHEMATIK 4 96/102 1962  
BY DOUGLAS J DDC NUMBER 407271  
JONES JR B F INSTRUMENT AF/AFOCR /0293/62  
PROJ/TASK 9749 02

AFOSRJ 448  
RICE U HOUSTON TEX  
CLASS D SUPERMARTINGALES  
BULL OF THE AMER MATH SOC 69 NO 1 98/62 JAN 1963  
BY JOHNSON G DDC NUMBER 407899  
MELMS L L INSTRUMENT AF/AFOCR /0293/62  
PROJ/TASK 9749 02

AFOSRJ 449  
CHICAGO U ILL  
ON ONE-SIDED LOCALIZATION OF TRIGONOMETRIC SERIES  
STUDIES IN MATHEMATICAL ANALYSIS - RELATED TOPICS 435/447  
1962  
BY ZYGMUND A INSTRUMENT AF 49638000491  
PROJ/TASK 9749 02

AFOSRJ 449  
NORTH CAROLINA U CHAPEL HILL  
RESOLVABLE INCOMPLETE BLOCK DESIGNS WITH TWO REPLICATIONS  
EREB 19626  
SANKHYN THE INDIAN J OF STAT 24 PT 1 9/24 FEB 1962  
BY BOSE R C DDC NUMBER 407899  
NAIR K R INSTRUMENT AF 49638000213  
PROJ/TASK 9749 02

AFOSRJ 449  
CALIFORNIA U LOS ANGELES  
CHEMISTRY OF POSITIVE IONS II. ION/MOLECULE REACTIONS IN  
RADOLYSIS OF NUTRANE AT LOW TEMPERATURE  
J CHEM PHYS 37 2496/2497 NOV 1962  
BY LIBBY W F DDC NUMBER 407899  
REVAN L INSTRUMENT AF 49638000901  
PROJ/TASK 9760 01

AFOSRJ 449  
BERLIN FREE U WEST BERLIN WEST GERMANY  
HOW THE VOLUME REFLEX CHANGES SODIUM EXCRETION IN THE DOG  
VERM DTSCH GES KREISL /FORSCH 25 263/265 1959  
BY PARKS F DDC NUMBER 407899  
GAUER O W INSTRUMENT AF 61605200031  
PROJ/TASK 9777 01

AFOSRJ 449  
BERLIN FREE U WEST BERLIN WEST GERMANY  
ANTI-DIURETIC AND DIURETIC IN THE RAT AFTER TONERPHIN  
INJECTION  
PFLUGERS ARCH PHYSIOL 274 262/271 1961  
BY WITTE F DDC NUMBER 407899  
RFINECK H INSTRUMENT AF 61605200031  
GAUER O W PROJ/TASK 9777 01

AFOSRJ 449  
BERLIN FREE U WEST BERLIN WEST GERMANY  
KIDNEY HEMODYNAMICS AND EXCRETORY FUNCTION IN THE KIDNEY  
DURING DEFINITE CHANGES IN BLOOD VOLUME  
PFLUGERS ARCH PHYSIOL 274 213/226 1961  
BY PABST K DDC NUMBER 407899  
CAUER O W INSTRUMENT AF 61605200031  
PROJ/TASK 9777 01

AFOSRJ 449  
BERLIN FREE U WEST BERLIN WEST GERMANY  
CENTRAL VENOUS PRESSURE IN MAN DURING ACUTE ARTERIAL  
HYPERTENSION  
PFLUGERS ARCH PHYSIOL 274 242/261 1961  
BY THRON H S DDC NUMBER 407899  
MINTZE A INSTRUMENT AF 61605200031  
PROJ/TASK 9777 01

AFOSRJ 449  
BERLIN FREE U WEST BERLIN WEST GERMANY  
THE EFFECT OF ACUTE ARTERIAL HYPERTENSION ON THE VEIN OF THE  
HAND IN MAN  
PFLUGERS ARCH PHYSIOL 274 227/251 1961  
BY MINTZE A DDC NUMBER 407899  
THRON H L INSTRUMENT AF 61605200031  
PROJ/TASK 9777 01

AFOSRJ 449  
BERLIN FREE U WEST BERLIN WEST GERMANY  
KIDNEY FUNCTION DURING BILATERAL CLAMPING OF THE CAROTID  
ARTERIES IN THE DOG  
PFLUGERS ARCH PHYSIOL 276 117/141 1962  
BY SOMLYAY L DDC NUMBER 407899  
THRON H L INSTRUMENT AF 61605200031  
PETRAN K PROJ/TASK 9777 01  
CARL G

AFOSRJ 449  
BERLIN FREE U WEST BERLIN WEST GERMANY  
PROPERTIES OF VEINS IN VIVO  
PHYSIOL REV 42 283/308 1962  
BY GAUER O W DDC NUMBER 407899  
THRON H L INSTRUMENT AF 61605200031  
PROJ/TASK 9777 01

AFOSRJ 449  
ILLINOIS U SPRINGFIELD  
A NEW CLASS OF TURNABLE RC NULL NETWORKS, 1963  
MIDWEST SYMP PROC WISCONSIN 8/1/62 MAY 1963  
BY GALAHAN D A DDC NUMBER 407899  
INSTRUMENT AF/AFOCR /0293/62  
PROJ/TASK 9749 01

AFOSRJ 441  
CHICAGO U ILLINOIS  
PRIMARY COSMIC RAY AND SOLAR PROTONS II  
PHYS REV 129 2275/2279 MAR 1963  
BY MEYER P DDC NUMBER 407717  
VOGT R INSTRUMENT AF/AFOCR /0023/62  
PROJ/TASK 9774 02

AFOSRJ 462  
YALE U NEW HAVEN CONN  
THEORY OF PRESSURE SHIFTS OF HCL LINES CAUSED BY NOBLE GASES  
J OF CHEM PHYS 38 1259/1260 MAR 1963  
BY WARGENTHAU M DDC NUMBER 407899  
JACOBSON M C INSTRUMENT AF 18603000014  
PROJ/TASK 9774 01

AFOSRJ 463  
ISTITUTO NAZIONALE DI OTTICA FLORENCE ITALY  
ON THE VISUAL EFFECTS PRODUCED BY A TEST OBJECT CONSISTING  
OF TWO STRIPES DARKER THAN THE BACKGROUND INTERSECTING WITH  
ONE ANOTHER. I. STRIPES OF DIFFERENT WIDTHS  
ATTI DELLA FONDAZIONE GEORGIO RONCHI 10 NO 1 47/70  
JAN / FEB 1963  
BY RONCHI I DDC NUMBER 407116  
ROTTAI G INSTRUMENT AF/EOAR /0004/63  
PROJ/TASK 9777 01

AFOSRJ 464  
CAROLINSEA INST STOCKHOLM SWEDEN  
EFFECTS OF DIFFERENT TYPES OF VASODILATOR MECHANISMS ON  
VASCULAR TONUS AND ON TRANSCAPILLARY EXCHANGE OF DIFFUSIBLE  
MATERIAL IN SKELETAL MUSCLE  
ACTA PHYSIOL SCAND 44 241/251 1962  
BY BENJIN F M DDC NUMBER 407117  
ROSELL S INSTRUMENT AF 616052000502  
PROJ/TASK 9777 01

AFOSRJ 465  
CAROLINSEA INST STOCKHOLM SWEDEN  
THE INFLUENCE OF SYMPATHETIC ADRENERGIC VASOCONSTRICTOR  
NERVES ON TRANSPORT OF DIFFUSIBLE SOLUTES FROM BLOOD TO  
TISSUES IN SKELETAL MUSCLE  
ACTA PHYSIOL SCAND 44 223/240 1962  
BY BENJIN F M DDC NUMBER 407118  
ROSELL S INSTRUMENT AF 616052000502  
PROJ/TASK 9777 01

AFOSRJ 466  
BRUSSELS FREE U BELGIUM  
THE EFFECTS OF BROMOCAPTETHANOL AND DITHIOGLYCOL ON THE  
GROWTH OF ESCHERICHIA COLI AND OF SACCHAROMYCES CEREVISIAE  
EXPER CELL RESEARCH 29 61/72 1963  
BY S LIMBROSC/ROLIN DDC NUMBER 412872  
INSTRUMENT AF 616052000356  
PROJ/TASK 9777 01

AFOSRJ 467  
GOTEBORG U SWEDEN  
INVERSE ENZYMIC CHANGES IN NEURONS AND GLIA DURING  
INCREASED FUNCTION AND HYPOXIA  
J OF CELL BIOLOGY 16 NO 3 521/525 1963  
BY HAMBURGER A DDC NUMBER 407899  
HYDEN H INSTRUMENT AF 61605200248  
PROJ/TASK 9777 01

AFOSRJ 468  
GOTEBORG U SWEDEN  
ADENOSINE TRIPHOSPHATE LEVELS AND ADENOSINE TRIPHOSPHATASES  
IN NEURONS GLIA AND NEURONAL MEMBRANES OF THE VESTIBULAR  
NUCLEUS  
BIOCHEM BIOPHYS ACTA 60 271/283 1962  
BY CUMMINS J DDC NUMBER 408211  
HYDEN H INSTRUMENT AF 61605200248  
PROJ/TASK 9777 01

AFOSRJ 469  
SHEFFIELD U ENGLAND  
THE METABOLISM OF C2/COMPOUNDS IN MICROORGANISMS. 9. ROLE  
OF THE GLYOXYLATE CYCLE IN PROTOZOAL GLYCOGENEGENESIS  
J BIOCHEM 86 462/468 1963  
BY HOGG J F DDC NUMBER 407101  
KORNBERG M L INSTRUMENT AF 616052000180  
PROJ/TASK 9777 01

AFOSRJ 470  
LEICESTER U ENGLAND  
AN IMPROVED SYNTHESIS OF DL/6/14CGLYCERIC ACID  
J OF CHEM SOC 480 2963/2964 APR 1963  
BY ASHWORTH J M DDC NUMBER 408644  
INSTRUMENT AF/EOAR /0023/62  
PROJ/TASK 9777 01

AFOSRJ 471  
GOTEBORG U SWEDEN  
THE NEURON AND ITS GLIA // A BIOCHEMICAL AND FUNCTIONAL UNIT  
ENDEAVOUR 21 NO 83/84 144/145 OCT 1962  
BY HYDEN H DDC NUMBER 407899  
INSTRUMENT AF/EOAR /0029/62  
PROJ/TASK 9777 01

AFOSRJ 472  
AGRICULTURAL RESEARCH COUNCIL LONDON ENGLAND  
HYPOGASTRIC NERVE OF THE DOG  
NATURE 197 NO 4869 304/306 FEB 1963  
BY VOGT M DDC NUMBER 407899  
INSTRUMENT AF/EOAR /0014/62  
PROJ/TASK 9777 01

AFOSRJ 473  
LAVAL U QUEBEC CANADA  
EFFECT OF THYROXINE PRETREATMENT ON THE UPTAKE AND  
ORNIFICATION OF RADIOACTIVE IODINE BY INCUBATED THYROID  
FRAGMENTS OF GUINEA PIGS  
LAVAL MEDICAL 33 NO 7 507/514 SEP 1962  
BY FORTIER C DDC NUMBER 407243  
SCHINDLER W J INSTRUMENT AF/AFOCR /0015/61  
PROJ/TASK 9777 01

AFOSRJ 474  
NORTH CAROLINA U CHAPEL HILL  
RESPONSE MODEL COEFFICIENTS AND THE INDIVIDUAL DEGREES OF  
FREEDOM OF A FACTORIAL DESIGN  
BIOMETRICS 18 NO 2 160/171 JUNE 1962  
BY BOSE R C DDC NUMBER 408214  
CARTER R L INSTRUMENT AF 49<638>00213  
PROJ/TASK 9749 02

AFOSRJ 475  
BRITISH COLUMBIA U VANCOUVER CANADA  
APPROXIMATION PROPERTIES OF MEASURES GENERATED BY  
CONTINUOUS SET FUNCTION  
MATHEMATIKA 9 145/156 1962  
BY STON M DDC NUMBER 407109  
S.JERVE D INSTRUMENT AF/AFOSR /0261/62  
PROJ/TASK 9749 02

AFOSRJ 477  
PRINCETON U N J  
WIDE/RANGE PHOTOGRAPHIC PHOTOMETRY  
REV SCI INSTRUMENTS 34 162/167 FEB 1963  
BY DOBBINS R A DDC NUMBER 407718  
CROCCO L INSTRUMENT AF 49<638>00938  
GLASSMAN I PROJ/TASK 9711 01

AFOSRJ 478  
CAMBRIDGE U ENGLAND  
COMPARISON OF THE EFFECTS OF PARTIAL AND TOTAL LATERAL  
FRONTAL LESIONS ON TEST PERFORMANCE BY MONKEYS  
J COMP - PHYSIOL PSYCHOL 56 41/47 1963  
BY GROSS G INSTRUMENT AF 61<052>00185  
PROJ/TASK 9778 01

AFOSRJ 480  
STANFORD U CAL  
SCATTERING OF HIGH/ENERGY POSITRONS FROM PROTONS  
PHYS REV 128 1842/1849 NOV 1962  
BY YOUNG D DDC NUMBER 407819  
PINE J INSTRUMENT NONR /25116  
PROJ/TASK 9751 01

AFOSRJ 481  
SOUTHERN CALIFORNIA U LOS ANGELES CALIF  
VISCOS COMPRESSIBLE AND INCOMPRESSIBLE FLOW IN SLENDER  
CHANNELS  
AIAA J 1 186/195 1963  
BY WILLIAM J C DDC NUMBER 408215  
INSTRUMENT AF 49<638>00831  
PROJ/TASK 9783 01

AFOSRJ 482  
WESTERN RESERVE U CLEVELAND OHIO  
INFORMATION RETRIEVAL AT WESTERN RESERVE UNIVERSITY  
ELEKTRONISCHE DATENVERARBEITUNG 1 4/8 1963  
BY BELZER J DDC NUMBER 407254  
INSTRUMENT AF/AFOSR /0035/62  
PROJ/TASK 9769 01

AFOSRJ 483  
PENNSYLVANIA U PHILADELPHIA  
COMPUTERS, COMMUNICATIONS, AND SCIENCE / EXTENDING MANS  
INTELLCT  
INFORMATION RETRIEVAL MANAGEMENT AMERICAN DATA PROCESSING  
INC CHAPT 17 MAR 1963  
BY GORN S INSTRUMENT AF 49<638>00951  
PROJ/TASK 9769 02

AFOSRJ 484  
MCMASTER U HAMILTON ONTARIO CANADA  
THE NUCLEAR MAGNETIC RESONANCE SPECTRUM OF SULPHUR  
TETRAFLUORIDE  
CANADIAN J CHEM 41 1016/1018 1963  
BY BACON J DDC NUMBER 414148  
GILLESPIE R J INSTRUMENT AF/AFOSR /0021/62  
CUAIL J W PROJ/TASK 9710 01

AFOSRJ 485  
RICE U HOUSTON TEX  
MONOGRAPH IN MATHEMATICS, ASYMPTOTIC VALUES OF HOLOMORPHIC  
FUNCTIONS, 1963  
J WILLIAM MARCH RICE U 49 NO 1 83 WINTER 1963  
BY MACLANE G R DDC NUMBER 406242  
INSTRUMENT AF/AFOSR /0094/62  
PROJ/TASK 9749 02

AFOSRJ 486  
MINNESOTA U MINNEAPOLIS  
ON A GENERALIZATION OF THE FINITE ARCSINE LAW  
ANNALS OF MATH STAT 33 NO 3 909/915 SEP 1962  
BY BAXTER G DDC NUMBER 407878  
INSTRUMENT AF/AFOSR /0252/62  
PROJ/TASK 9749 02

AFOSRJ 487  
MINNESOTA U MINNEAPOLIS  
A NORM INEQUALITY FOR A FINITE/SECTION WIENER/HOPF EQUATION  
ILLINOIS J OF MATH 7 NO 1 97/103 MAR 1963  
BY BAXTER G DDC NUMBER 407877  
INSTRUMENT AF/AFOSR /0252/62  
PROJ/TASK 9749 02

AFOSRJ 488  
STANFORD U CAL  
DETERMINATION OF THE DEUTERON FORM FACTOR FROM COHERENT  
PHOTOPRODUCTION  
PHYS REV 129 2802/2807 MAR 1963  
BY FRIEDMAN J DDC NUMBER 407863  
KENDALL H W INSTRUMENT NONR /2256676  
PROJ/TASK 9751 01

AFOSRJ 489  
STANFORD U CAL  
UPPER LIMIT OF THE ELECTRIC DIPOLE MOMENT OF THE ELECTRON  
PHYS REV 129 2580/2581 MAR 1963  
BY GOLDBERG J DDC NUMBER 407861  
TORIZUKA Y INSTRUMENT NONR /2256676  
PROJ/TASK 9751 01

AFOSRJ 490  
STANFORD U CAL  
STUDY OF NUCLEAR MAGNETIC TRANSITIONS BY INELASTIC ELECTRON  
SCATTERING  
NUCL PHYS 41 461/481 1963  
BY BARBER W C DDC NUMBER 415317  
GOLDFMFRG J INSTRUMENT NONR /2256676  
PETERSON C A PROJ/TASK 9751 01  
TORIZUKA Y

AFOSRJ 491  
CAMBRIDGE U ENGLAND  
EFFECTS OF DEPRIVATION ON DELAYED RESPONSE AND DELAYED  
ALTERNATION PERFORMANCE BY NORMAL AND BRAIN OPERATED MONKEY  
J COMP AND PHYSIOL PSYCH 56 48/51 1963  
BY GROSS G DDC NUMBER 415239  
INSTRUMENT AF 61<052>00185  
PROJ/TASK 9778 01

AFOSRJ 492  
CAMBRIDGE U ENGLAND  
DISCRIMINATION REVERSAL AFTER LATERAL FRONTAL LESIONS IN  
MONKEYS  
J COMP AND PHYSIOL PSYCHO 56 NO 1 52/55 1963  
BY GROSS C DDC NUMBER 407871  
INSTRUMENT AF 61<052>00185  
PROJ/TASK 9778 01

AFOSRJ 493  
RUTGERS STATE U NEW BRUNSWICK N J  
INFORMATION RETRIEVAL  
SCIENCE 140 606/609 1010 MAY 1963  
BY SHAW R R DDC NUMBER 407864  
INSTRUMENT AF/AFOSR /0009/62  
PROJ/TASK 9769 01

AFOSRJ 494  
GOTEBORG U SWEDEN  
FLUORIMETRIC DETERMINATION OF 3/0/METHYLATED DERIVATIVES OF  
ADRENALINE AND NORADRENALINE IN TISSUES AND BODY FLUIDS  
ACTA PHYSIOL SCAND 56 258/266 1962  
BY HAGGENDAL J DDC NUMBER 407859  
INSTRUMENT AF/EOAR /0044/61  
PROJ/TASK 9777 01

AFOSRJ 495  
UPPSALA U SWEDEN  
IMPROVED EXPERIMENTAL METHODS FOR MEASUREMENTS OF NUCLEAR  
LIFETIMES DOWN TO 10/11 SECONDS.  
ARKIV FOR FYSIK 24 199/220 1963  
BY LINDSKOG J DDC NUMBER 407857  
SUNDSTROM T INSTRUMENT AF/AFOSR /0123/62  
PROJ/TASK 9751 02

AFOSRJ 496  
UPPSALA U SWEDEN  
DETERMINATION OF THE ELECTROMAGNETIC TRANSITION  
PROBABILITIES IN THE GROUND STATE DECAY OF AUG. 199  
ARKIV FOR FYSIK 24 161 169 JAN 1963  
BY LINDSKOG J DDC NUMBER 407858  
SUNDSTROM T INSTRUMENT AF/AFOSR /0123/62  
LINDSTROM J O PROJ/TASK 9751 02  
SPARMAN P

AFOSRJ 498  
MISSISSIPPI U UNIVERSITY  
THE SELF/JUDGMENT PRINCIPLE IN SCIENTIFIC DATA PROCESSING  
IND ENGINEERING CHEM 55 29/32 APR 1963  
BY DE MAIN P A D INSTRUMENT AF/AFOSR /0019/62  
SEAWRIGHT R D PROJ/TASK 9710 03

AFOSRJ 499  
INST FOR ADVANCED STUDY PRINCETON N J  
ON AN ORDINARY DIFFERENTIAL EQUATION. / / / .  
PROC OF THE AMER MATH SOC 10 NO 1 82/86 FEB 1959  
BY KEMP R R DDC NUMBER 407862  
INSTRUMENT AF 18<600>01109  
PROJ/TASK 9749 02

AFOSRJ 500  
STANFORD U CAL  
PHOTOPROTONS FROM OXYGEN, FLUORINE, NEON AND OTHER LIGHT  
ELEMENTS  
PHYS REV 127 1746/1771 SEP 1962  
BY DODGE W H INSTRUMENT NONR /25116  
BARBER W C PROJ/TASK 9751 01

AFOSRJ 501  
STANFORD U CAL  
INELASTIC ELECTRON SCATTERING FROM V51  
PHYS REV 128 792/800 OCT 1962  
BY KENDALL H W INSTRUMENT NONR /25116  
TALMI I PROJ/TASK 9751 01

AFOSRJ 502  
STANFORD U CAL  
DEUTRON MAGNETIC DIPOLE DISINTEGRATION BY 180 DEGREES  
ELECTRON SCATTERING  
PHYS REV 128 812/820 OCT 1962  
BY PETERSON C A INSTRUMENT NONR /25116  
BARBER W C PROJ/TASK 9751 01

AFOSRJ 503  
STANFORD U CAL  
A THEORY OF VERY LOW FREQUENCY EMISSIONS FROM THE  
EXOSPHERE, NOVEMBER 1962  
J GEOPHYS RSCH 67 4897/4899 NOV 1962  
BY BRICE N DDC NUMBER 414599  
INSTRUMENT AF 18<603>00126  
PROJ/TASK 9768 01



AFOSRJ 504  
NEW YORK U NEW YORK  
ON THE MALKUS THEORY OF TURBULENCE  
COLLOQUES INTL DE CENTRE NATIONAL DE LA RESHERCHE  
SCIENTIFIQUE MARSEILLE 108 181/208 AUG / SEP 1961  
BY SPIEGEL E A DDC NUMBER 406281  
INSTRUMENT AF 49<638>01065  
PROJ/TASK 9767 03

AFOSRJ 505  
MICHIGAN STATE U EAST LANSING  
ASYMMETRIC/TOP VIBRATION/ROTATION HAMILTONIANS  
J OF CHEM PHYS 38 8/17 JAN 1963  
BY CHUNG K T DDC NUMBER 407876  
INSTRUMENT AF/AFOSR /0375/62  
PARKER P M PROJ/TASK 9767 01

AFOSRJ 506  
CHICAGO U ILL  
FLUORESCENCE SPECTRA AND LIFETIMES OF SOME RARE/EARTH  
COMPOUNDS  
J OF CHEM PHYS 137 3011/3012 DEC 1962  
BY RICKE F F DDC NUMBER 407874  
ALLISON R INSTRUMENT AF/AFOSR /0292/62  
PROJ/TASK 9767 02

AFOSRJ 507  
ILLINOIS U URBANA  
MILLIMETER WAVE CAVITY COUPLING BY QUARTER/WAVE TRANSFORMER  
[RE TRANS MICROWAVE THEORY AND TECHNIQUES MTT/10  
NOV 1962  
BY STRAIN R J DDC NUMBER 407875  
COLEMAN P D INSTRUMENT AF/AFOSR /0287/62  
PROJ/TASK 9767 02

AFOSRJ 508  
ROCHESTER U N Y  
TEMPORAL COHERENCE OF BLACK BODY RADIATION  
PHYS SOC 8 1273/1276 1962  
BY KANO Y INSTRUMENT AF/AFOSR /0246/62  
WOLF E PROJ/TASK 9767 02

AFOSRJ 509  
MICHIGAN U ANN ARBOR MICH  
MAGNETIC PROPERTIES OF POLYCRYSTALLINE MATERIALS  
J PHYS CHEM SOLIDS 12 28/40 1959  
BY GRIMES D M DDC NUMBER 414058  
HARRINGTON R D INSTRUMENT AF 49<638>00986  
RASMUSSEN A L PROJ/TASK 9763 01

AFOSRJ 510  
MICHIGAN U ANN ARBOR MICH  
LOW/TEMPERATURE HEAT CAPACITIES - THERMODYNAMIC PROPERTIES  
OF ZINC FERRITES/III. EFFECT OF COPPER SUBSTITUTION  
J PHYS CHEM SOLIDS 10 120/125 1959  
BY WESTRUM JR E F DDC NUMBER 414055  
INSTRUMENT AF 49<638>00986  
PROJ/TASK 9763 01

AFOSRJ 511  
MICHIGAN U ANN ARBOR MICH  
VARIATIONS OF PERMITTIVITY WITH ELECTRIC FIELD IN  
PEROVSKITE/LIKE FERROELECTRICS  
J APPL PHYS 32 909/915 MAY 1961  
BY DIAMOND H DDC NUMBER 414054  
INSTRUMENT AF 49<638>00986  
PROJ/TASK 9763 01

AFOSRJ 512  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
ON THE ACCURACY OF APPROXIMATE THRUST STEERING SCHEDULES IN  
OPTIMAL CORRECTIONAL MANEUVERS  
ASTRONAUTICA ACTA 9 20/30 1963  
BY MOSKOWITZ S E INSTRUMENT AF 49<638>00445  
PROJ/TASK 9781 01

AFOSRJ 513  
ROYAL COLL OF SCIENCE AND TECH GLASGOW SCOTLAND  
GAS/IONIZING SHOCK AND COMBUSTION WAVES IN  
MAGNETOGASDYNAMICS  
J FLUID MECH 14 405/419 1962  
BY HELLIWELL J B INSTRUMENT AF/EOAR /0049/61  
PROJ/TASK 9749 01

AFOSRJ 514  
HULL U ENGLAND  
HOMOGENEOUS GAS/PHASE DECOMPOSITION OF HYDROGEN PEROXIDE  
EIGHTH INTL SYMP ON COMBUSTION 110/119 1962  
BY BALDWIN R R INSTRUMENT AF 61<052>00062  
BRATTAN D PROJ/TASK 9750 02

AFOSRJ 515  
BRANDEIS U WALTHAM MASS  
QUANTUM THEORY OF INTERACTING BOSONS  
ANNALS OF PHYS 9 292/324 1960  
BY GROSS E P INSTRUMENT AF 49<638>00027  
PROJ/TASK 9767 01

AFOSRJ 516  
MINNESOTA U MINNEAPOLIS  
ASYMPTOTIC BEHAVIOR OF SUCCESSIVE COEFFICIENTS OF SOME POWE  
SERIES  
ILLINOIS J OF MATH 6 620/629 DEC 1962  
BY GARSIA A M DDC NUMBER 411475  
GREY S INSTRUMENT AF 49<638>00617  
RODEMICH E PROJ/TASK 9749 02

AFOSRJ 517  
PRINCETON U N J  
A NEW APPROACH TO ALMOST PERIODICITY  
PROC NATL ACAD SCI 48 NO 12 2039/2043 DEC 1962  
BY BOCHNER S DDC NUMBER 415315  
INSTRUMENT AF 49<638>00578  
PROJ/TASK 9749 02

AFOSRJ 518  
WESTERN ONTARIO U LONDON CANADA  
THE SCATTERING OF LOW/ENERGY ORTHO/POSITRONIUM BY HYDROGEN  
ATOMS  
PROC PHYS SOC LONDON 78 329/347 1961  
BY FRASER P A DDC NUMBER 414432  
INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

AFOSRJ 519  
WESTERN ONTARIO U LONDON CANADA  
THE FRANCH/CONDON FACTOR GOV V6 ARRAY HIGH VEPRATIONAL  
QUANTUM NUMBERS FOR THE O26B3E/U /X3X-G6 SCHUMANN/RUNGE  
BAND SYSTEM  
CANADIAN J PHYS 38 1705/1711 1960  
BY NICHOLLS R W DDC NUMBER 414440  
INSTRUMENT AF 49<638>00640  
PROJ/TASK 9767 02

AFOSRJ 520  
BRANDEIS U WALTHAM MASS  
STRUCTURE OF A QUANTIZED VORTEX IN BOSON SYSTEMS  
IL NUOVO CIMENTO 20 1766/1789 1961  
BY GROSS E P DDC NUMBER 414439  
INSTRUMENT AF 49<638>00027  
PROJ/TASK 9767 01

AFOSRJ 521  
BRANDEIS U WALTHAM MASS  
RECENT INVESTIGATIONS OF THE BOLTSMANN EQUATION  
RAREFIED GAS DYNAMICS PERGAMON PRESS 139/150 1960  
BY GROSS E P INSTRUMENT AF 49<638>00027  
PROJ/TASK 9767 01

AFOSRJ 522  
HULL U ENGLAND  
THERMAL AND ISOTHERMAL EXPLOSIONS IN THE INHIBITION OF THE  
HYDROGEN - OXYGEN REACTION BY HYDROCARBONS  
TRANS OF THE FARADAY SOC 58 60/65 JAN 1962  
BY BALDWIN R R DDC NUMBER 406786  
BOOTH D INSTRUMENT AF 61<052>00062  
WALKER R W PROJ/TASK 9750 02

AFOSRJ 523  
STEVENS INST OF TECH HOBOKEN N J  
INTERACTION BETWEEN PLASMA AND A TWO/DIMENSIONAL MAGNETIC  
DIPOLE  
PHYS OF FLUIDS 5 NO 5 1305/1306 OCT 1962  
BY BOSTICK W H INSTRUMENT AF 49<638>01051  
BYFIELD H PROJ/TASK 9752 01  
NAKAGAWA Y  
WELLS D

AFOSRJ 524  
STANFORD U CAL  
MAGNETIC ELASTIC SCATTERING OF ELECTRONS BY LIGHT NUCLEI  
PHYS REV 129 312/315 JAN 1963  
BY J GOLDBERGER AND Y TORIZ  
TORIZUKA Y INSTRUMENT NONR /2256676  
PROJ/TASK 9751 01

AFOSRJ 525  
STANFORD U CAL  
EXPERIMENTAL INVESTIGATION OF PION ELECTROPRODUCTION  
PHYS REV 129 1834/1846 FEB 1963  
BY HAND L N INSTRUMENT NONR /2256676  
PROJ/TASK 9751 01

AFOSRJ 526  
TECHNISCHE HOCHSCHULE VIENNA AUSTRIA  
DURCHSCHLAGEN EINER FLACHEN KUGELSCHALE AUS VISKOELASTISCHE  
MATERIAL  
OSTERREICHISCHES INGENIEUR/ARCHIV 16 286/298 1962  
BY TUNGL E INSTRUMENT AF 61<052>00214  
PROJ/TASK 9749 01

AFOSRJ 527  
SYSTEMS DEVELOPMENT CORP SANTA MONICA CALIF  
ON ASSESSING THE EFFECTIVENESS OF ADMINISTERING PRIORITIES  
IN INFORMATION SYSTEMS  
PROC OF THE MILITARY OPERATIONS RESEARCH SYMPOSIA 2  
31/45 16/18 OC: 1962  
BY ROME B K DDC NUMBER 408407  
ROME S C INSTRUMENT AF 49<638>01188  
PROJ/TASK 9769 03

AFOSRJ 528  
MASSACHUSETTS U AMHERST  
NOISE AND HUMAN PERFORMANCE. A PSYCHOPHYSIOLOGICAL APPROACH  
ERGONOMICS 6 83/97 JAN 1963  
BY TEICHNER W H DDC NUMBER 407867  
AREES E INSTRUMENT AF/AFOSR /0202/62  
REILLY R PROJ/TASK 9778 01

AFOSRJ 530  
CALIFORNIA U DAVIS  
THE INTERSECTION OF FIBONACCI SEQUENCES  
MICHIGAN MATH J 9 399/402 1962  
BY STEIN S K DDC NUMBER 407872  
INSTRUMENT AF/AFOSR /0299/62  
PROJ/TASK 9749 02

AFOSRJ 531  
PISA U ITALY  
ON THE PSEUDO/RIGIDITY OF STEIN MANIFOLDS  
ANNALI DELLA SCUOLA NORMALE SUPERIORE DI PISA 16 213/223  
1962  
BY ANDREOTTI A DDC NUMBER 407855  
VESEUTINI E INSTRUMENT AF/EOAR /0035/62  
PROJ/TASK 9749 02

AFOSRJ 933  
OKLAHOMA STATE U STILLWATER  
DETERMINATION OF MERCAPTO GROUPS IN OVALBUMIN WITH  
FERRICYANIDE  
ARCH BIOCHEM BIOPHYS 82 NO 12 319/329 JUNE 1959  
BY KATYAL J M  
GORIN G  
INSTRUMENT AF 18<603>00135  
PROJ/TASK 9777

AFOSRJ 934  
HARVARD U CAMBRIDGE MASS  
SHAPE AND ARRANGEMENT OF COLUMNS IN CATS STRIATE CORTEX  
J PHYSIOL 165 559/568 1963  
BY HUBEL D H  
WEISEL T N  
INSTRUMENT AF/AFOSR /0076/62  
PROJ/TASK 9777 01

AFOSRJ 936  
NEW YORK U NEW YORK  
MAGNETOHYDRODYNAMIC MACH CONES  
J AEROSPACE SCI 29 NO 12 1476/1479 DEC 1962  
BY CUMBERBATH E  
DDC NUMBER 407868  
INSTRUMENT AF 49<638>  
PROJ/TASK 9749 01

AFOSRJ 937  
NEW YORK U NEW YORK  
MAGNETOHYDRODYNAMIC FLOW PAST A THIN AIRFOIL  
ATAA J 1 NO 3 679/690 MAR 1963  
BY CUMBERBATH E  
SARASON L  
WEITZNER M  
DDC NUMBER 407871  
INSTRUMENT AF 49<638>01006  
PROJ/TASK 9749 01

AFOSRJ 938  
NEW YORK U NEW YORK  
DISPERSION RELATIONS IN RAREFIED GAS DYNAMICS  
PHYS OF FLUIDS 6 NO 1 10/20 JAN 1963  
BY SIROVICH L  
DDC NUMBER 414695  
INSTRUMENT AF 49<638>01006  
PROJ/TASK 9749 01

AFOSRJ 939  
MIAMI U CORAL GABLES FLA  
AN EXAMPLE OF HYPERFRAGMENT DECAY IN THE  $P_1$  - MODE AND OTHER  
INTERACTIONS OF  $K^+$  MESONS AND HYPERONS IN EMULSION  
NUOVO CIMENTO 27 774/785 FEB 1963  
BY BLAU M  
CARTER C F  
PERLMUTTER A  
INSTRUMENT AF 49<638>00097  
PROJ/TASK 9750

AFOSRJ 940  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
ZFEMAN EFFECT OF THE R LINES IN CR2O3  
J APPL PHYS 34 NO 4 1242/1243 APR 1963  
BY STAGER C V  
DDC NUMBER 408013  
INSTRUMENT AF 19<604>07344  
PROJ/TASK 9764 00

AFOSRJ 941  
MASSACHUSETTS INST OF TECH CAMBRIDGE  
MAGNETOELECTRIC EFFECTS IN CR2O3 AND 4CR2O3.6.8 6A120360.2  
J APPL PHYS 34 NO 4 1246/1247 APR 1963  
BY FOMER S  
HANABUSA H  
DDC NUMBER 419916  
INSTRUMENT AF 19<604>07344  
PROJ/TASK 9764 00

AFOSRJ 942  
OREGON U EUGENE  
OPTICAL AND ESR SPECTRA OF IRRADIATED CaO CRYSTALS  
J PHYS SOLID 24 332/333 1963  
BY KEMP J C  
NEELPY V I  
DDC NUMBER 408016  
INSTRUMENT AF/AFOSR /0180/62  
PROJ/TASK 9763 02

AFOSRJ 943  
STANFORD U CAL  
ANNIHILATION IN FLIGHT OF 200 AND 800 MEV POSITRONS  
IL NUOVO CIMENTO 27 7/855 FEB 1963  
BY BROWMAN A  
PINE J  
DDC NUMBER 408015  
INSTRUMENT NOMR /2296676  
PROJ/TASK 9751 01

AFOSRJ 944  
CHICAGO U ILL  
COMMENTS ON CORONAL HEATING  
SOLAR CORONA ACADEMIC PRESS INC N Y 11/19 1962  
BY PARKER F N  
DDC NUMBER 408598  
INSTRUMENT AF 18<600>00666  
PROJ/TASK 9774 02

AFOSRJ 945  
CAMBRIDGE LANGUAGE RESEARCH UNIT ENGLAND  
SEMANTIC MESSAGE DETECTION FOR MACHINE TRANSLATION, USING A  
INTERLINGUA  
PROC FIRST INTL CONF ON MACHINE TRANSLATION OF LANGUAGES  
APPLIED LANGUAGE ANALYSIS NATL PHYSICAL LAB ENGLAND  
7/36 5/8 SEP 1961  
BY MASTERMAN M  
INSTRUMENT AF 61<012>00542  
PROJ/TASK 9769 02

AFOSRJ 946  
CAMBRIDGE LANGUAGE RESEARCH UNIT ENGLAND  
THE INTELLECTS NEW FIVE  
FREEING THE MIND FROM TIMES LITERARY 38/44 27 APR 1962  
BY MASTERMAN M  
DDC NUMBER 411466  
INSTRUMENT AF 61<012>00542  
PROJ/TASK 9769 02

AFOSRJ 947  
RUTGERS STATE U NEW BRUNSWICK N J  
ELECTRONIC STORAGE AND SEARCHING  
FREEING THE MIND FROM THE TIMES LITERARY SUPPLEMENT 19/23  
6 APR 1962  
BY SHAW R  
INSTRUMENT AF/AFOSR /0009/62  
PROJ/TASK 9749 01

AFOSRJ 948  
HARVARD U CAMBRIDGE MASS  
NON-ABELIAN GAUGE FIELDS, LORENTZ GAUGE FORMULATION  
PHYS REV 130 402/405 APR 1963  
BY SCHWINGER J  
DDC NUMBER 408596  
INSTRUMENT AF 49<638>00589  
PROJ/TASK 9751 01

AFOSRJ 949  
STANFORD U CAL  
PROPOSED GYROSCOPE EXPERIMENT TO TEST GENERAL RELATIVITY  
THEORY  
PROC OF INT CONF ON RELATIVITY AND GRAVITATION WARSAW  
JULY 1962  
BY SCHIFF L I  
DDC NUMBER 408598  
INSTRUMENT AF 49<638>00188  
PROJ/TASK 9751 01

AFOSRJ 951  
LONDON U IMPERIAL COLL OF SCIENCE AND TECH ENGLAND  
CALCULATION OF THE YUKAWA COUPLING CONSTANT  
IL NUOVO CIMENTO 27 1431/1438 MAR 1963  
BY DELROURGO R  
DDC NUMBER 407924  
INSTRUMENT AF/EOAR /0087/62  
PROJ/TASK 9751 01

AFOSRJ 952  
LONDON U IMPERIAL COLL OF SCIENCE AND TECH ENGLAND  
AND TRA AS OPPOSITE BOUNDARY VALUES  
IL NUOVO CIMENTO 28 107/111 APR 1963  
BY RASHTO M A  
SYED M A  
DDC NUMBER 408597  
INSTRUMENT AF/EOAR /0087/62  
PROJ/TASK 9751 01

AFOSRJ 954  
CAMBRIDGE U ENGLAND  
REGGE SURFACES AND SINGULARITIES IN A RELATIVISTIC THEORY  
PHYSICAL REVIEW 129 2349/2353 MAR 1963  
BY CHALLIFOUR J  
EDEN R J  
INSTRUMENT AF/EOAR /0079/63  
PROJ/TASK 9751 01

AFOSRJ 955  
HARVARD U CAMBRIDGE MASS  
COMMUTATION RELATIONS AND CONSERVATION LAWS  
PHYS REV 130 406/409 APR 1963  
BY SCHWINGER J  
DDC NUMBER 408977  
INSTRUMENT AF 49<638>00589  
PROJ/TASK 9751 01

AFOSRJ 956  
CATHOLIC U OF AMERICA WASHINGTON D C  
QUANTUM MECHANICS OF BEATS BETWEEN WEAKLY COUPLED  
OSCILLATORS  
AMER J OF PHYS 31 161/165 MAR 1963  
BY MEIJER P H  
YANAGA T  
DDC NUMBER 408580  
INSTRUMENT AF 49<638>00452  
PROJ/TASK 9767 01

AFOSRJ 957  
WASHINGTON STATE U PULLMAN  
THE EFFECTS OF GLASS CONTAMINATION AND ELECTRODE CURVATURE  
ON ELECTRICAL BREAKDOWN IN VACUUM  
J APPLIED PHYS 34 319/322 FEB 1963  
BY DONALDSON F  
RABINOWITZ M  
DDC NUMBER 407400  
INSTRUMENT AF/AFOSR /0086/62  
PROJ/TASK 9760 03

AFOSRJ 958  
JOHNS HOPKINS U BALTIMORE MD  
STUDY OF THE HYDROGENATION OF ETHYLENE OVER HOMOGENIZED  
COPPER/NICKEL ALLOY FILMS  
J PHYS CHEM 65 1102/1104 1961  
BY GEMMETT P H  
GHARIBURDY M K  
DDC NUMBER 408294  
INSTRUMENT AF 18<603>00129  
PROJ/TASK 9760

AFOSRJ 959  
MINNESOTA U MINNEAPOLIS  
EFFECT OF SURFACE ROUGHNESS ON MAGNETIC PROPERTIES OF FILMS  
J APPL PHYS 34 NO 4 1147/1148 APR 1963  
BY PROSEN R J  
GRAN R F  
KEVEL J  
KEARLE C W  
MORRIS A H  
DDC NUMBER 408579  
INSTRUMENT AF 49<638>00803  
PROJ/TASK 9761 03

AFOSRJ 960  
PENNSYLVANIA U PHILADELPHIA  
BILDUNG VON D 80/PHASEN ZWISCHEN 6 A/METALLEN UND AL 6 GA. I  
HIND SR DIF  
MONATSSCHRIFTE FUR CHEMIE 94 27/226 1963  
BY BOLLER M  
PARTHE F  
INSTRUMENT AF 49<638>01027  
PROJ/TASK 9761 02

AFOSRJ 961  
PURDUE U LAFAYETTE IND  
PRASEODYMIUM OXIDE/OXYGEN GENERATOR  
J OF CHEM EDUCATION 40 150 MAR 1963  
BY FAETH P A  
CLIFFORD A P  
DDC NUMBER 408594  
INSTRUMENT AF 18<603>00045  
PROJ/TASK 9769

AFOSRJ 962  
CASE INST OF TECH CLEVELAND OHIO  
OSCILLATORY MAGNETIC BREAKDOWN IN ZINC  
PHYS REV LETS 9 402/405 DEC 1962  
BY STARR R W  
DDC NUMBER 412694  
INSTRUMENT AF/AFOSR /0222/62  
PROJ/TASK 9763 02

AFOSRJ 963  
CALIFORNIA U RIVERSIDE  
METAL TO INSULATOR TRANSITION IN ANTI-FERROMAGNETS  
REPT INTL CONF THE PHYS OF SEMICONDUCTORS FRIEST  
INST PHYS AND PHYS SOC LONDON 184/190 JUL 1962  
BY CALLAWAY J  
DDC NUMBER 412691  
INSTRUMENT AF/AFOSR /0318/62  
PROJ/TASK 9761 01

AFOSRJ 564  
CALIFORNIA U LA JOLLA  
THE PHASE DIAGRAM OF THE MERCURY/INDIUM ALLOY SYSTEM  
J LESS/Common METALS 5 41/48 1963  
BY COLES B R DDC NUMBER 412729  
MERRIAM H F INSTRUMENT AF/AFOSR /0344/62  
FISK Z PROJ/TASK 9763 02

AFOSRJ 565  
ARIZONA U TUCSON  
EFFECT OF HYDROSTATIC PRESSURE ON THE RATE OF ATOMIC  
MOVEMENT IN NOBLE METALS  
PROC INTL CONF CRYSTAL LATTICE DEFECTS 1962 J PHYS  
SOC OF JAPAN 18 228/229 1963  
BY TOMIZUKA C T DDC NUMBER 412680  
INSTRUMENT AF/AFOSR /0105/63  
PROJ/TASK 9763 02

AFOSRJ 566  
BRUSSELS FREE U BELGIUM  
THE EFFECTS OF BETA/MERCAPTOETHANOL ON THE MORPHOGENETIC  
MOVEMENTS OF AMPHIBIAN EMBRYOS  
J EMBRYOL EXP MORPH 11 155/166 MAR 1963  
BY MALPOIX P DDC NUMBER 406783  
QUERTIER J INSTRUMENT AF 61<052>00356  
BRACHET J PROJ/TASK 9777 01

AFOSRJ 567  
ARIZONA U TUCSON  
ANOMALOUS DIFFUSION RATE FOR SMALL PENETRATION DISTANCE IN  
COPPER  
J APPL PHYS 34 NO 4 1001/1002 APR 1963  
BY STYRIS L DDC NUMBER 407389  
TOMIZUKA C T INSTRUMENT AF/AFOSR /0105/63  
PROJ/TASK 9763 02

AFOSRJ 568  
BRUSSELS FREE U BELGIUM  
SULFHYDRYL GROUPS - MORPHOGENESIS III. BIOCHEMICAL STUDY OF  
THE EFFECTS OF MERCAPTOETHANOL ON THE EMBRYOS OF AMPHIBIA  
AND THE ALGA ACETABULARIA MEDITERRANEA  
DEVELOPMENTAL BIOLOGY 6 NO 1 113/131 FEB 1963  
BY BRACHET J DDC NUMBER 407388  
DECROLY M INSTRUMENT AF 61<052>00356  
QUERTIER J PROJ/TASK 9777 01

AFOSRJ 569  
BRUSSELS FREE U BELGIUM  
SULFHYDRYL GROUPS AND MORPHOGENESIS IV. EFFECTS OF  
B/MERCAPTOETHANOL - OF A/LIPOIC ACID ON THE METABOLISM OF  
NUCLEIC ACIDS IN AMPHIBIAN - CHICKEN EMBRYOS  
J EMBRYOL EXP MORPH 11 293/305 MAR 1963  
BY POHL V DDC NUMBER 407387  
INSTRUMENT AF 61<052>00356  
PROJ/TASK 9777 01

AFOSRJ 570  
CORNELL U ITHACA N Y  
PHOTOCHEMICAL REDUCTION OF TRIPHOSPHOPYRIDINE NUCLEOTIDE BY  
CELL/FREE EXTRACTS OF BLUE/GREEN ALGAE  
NATURE 198 NO 4875 88 APR 1963  
BY BLACK C C DDC NUMBER 408595  
FEWSON C A INSTRUMENT AF 49<638>00798  
GIBBS M PROJ/TASK 9777 01

AFOSRJ 571  
MARTIN MARIETTA CORP RIAS INC BALTIMORE MD  
PHOTOSYNTHESIS AND RESPIRATION  
ARCH OF BIOCHEM AND BIOPHYS 101 NO 1 171/180 APR  
1963  
BY HOCH G DDC NUMBER 410135  
OWENS O V H INSTRUMENT AF 49<638>00947  
KOK R PROJ/TASK 9777 01

AFOSRJ 572  
MARTIN MARIETTA CORP RIAS INC BALTIMORE MD  
A MASS SPECTROMETER INLET SYSTEM FOR SAMPLING GASES  
DISSOLVED IN LIQUID PHASES  
ARCH OF BIOCHEM - BIOPHYS 101 NO 1 160/170 APR 1963  
BY HOCH G DDC NUMBER 411914  
KOK B INSTRUMENT AF 49<638>00947  
PROJ/TASK 9777 01

AFOSRJ 573  
CAMBRIDGE LANGUAGE RESEARCH UNIT ENGLAND  
A NEW MODEL OF SYNTACTIC DESCRIPTION  
PROC FIRST INTL CONF ON MACHINE TRANSLATION OF LANGUAGES  
AND APPL LANGUAGE ANAL NATL PHYS LAB ENGLAND 3/37  
SEP 1961  
BY PARKER/RHODES A F DDC NUMBER 414779  
INSTRUMENT AF 61<052>00331  
PROJ/TASK 9769 06

AFOSRJ 574  
CHICAGO U ILL  
HALL COEFFICIENTS OF LIQUID METALS  
PHYS LTRS 3 NO 3 121/122/DEC 1962  
BY GREENFIELD A J DDC NUMBER 415204  
INSTRUMENT AF/AFOSR /0178/62  
PROJ/TASK 9763 02

AFOSRJ 575  
PENNSYLVANIA STATE U UNIVERSITY PARK  
NUMERICAL CALCULATIONS OF REFLECTION COEFFICIENTS FOR  
DIFFERENT SURFACE POTENTIAL BARRIER MODELS  
PHYSICA STATUS SOLIDI 3 113/118 1963  
BY CUTLER P H DDC NUMBER 408017  
DAVIS J C INSTRUMENT AF/AFOSR /0100/61  
GIBBONS J J PROJ/TASK 9761 01

AFOSRJ 576  
TECHNION RESEARCH AND DEVELOPMENT FOUNDATION HAIFA ISRAEL  
MAGNETIZATION PROCESS AND DOMAIN STRUCTURE FROM  
MAGNETORESISTANCE MEASUREMENTS IN THIN NICKEL WIRES  
J PHYS SOC OF JAPAN 17 651/653 1962  
BY MIRSCH A A DDC NUMBER 414024  
FRIEDMAN N INSTRUMENT AF 61<052>00481  
GORODETSKY G PROJ/TASK 9763 02

AFOSRJ 577  
TECHNION RESEARCH AND DEVELOPMENT FOUNDATION HAIFA ISRAEL  
TEMPERATURE DEPENDENCE OF COERCIVITY AND DOMAIN STRUCTURE I  
THIN FERROMAGNETIC LAYERS  
SYMP ELECTRIC AND MAGNETIC PROPERTIES OF THIN METALLIC  
LAYERS 128/138 1961  
BY MIRSCH A A DDC NUMBER 414126  
INSTRUMENT AF 61<052>00481  
PROJ/TASK 9763 02

AFOSRJ 579  
CALIFORNIA U LA JOLLA  
EFFECTS OF STRAIN ON THE SUPERCONDUCTING TRANSITION IN THE  
MERCURY/INDIUM SYSTEM  
CRYOGENICS 301/302 SEPT 1962  
BY MERRIAM H F INSTRUMENT AF/AFOSR /0344/62  
JENSEN M A PROJ/TASK 9763 02

AFOSRJ 580  
ILLINOIS U URBANA  
MOBILITY OF DISLOCATIONS IN GERMANIUM  
PROC INTL CONF ON CRYSTAL LATTICE DEFECTS 1962 PHYS  
SOC OF JAPAN 18 20/23 1963  
BY CELLI V DDC NUMBER 415209  
KABLER M INSTRUMENT AF/AFOSR /0179/62  
NINOMIYA T PROJ/TASK 9761 01  
THOMPSON R

AFOSRJ 581  
SHEFFIELD U ENGLAND  
MICROWAVE ABSORPTION IN GADOLINIUM/YTTRIUM ALLOYS  
J APPL PHYS 34 NO 4 1343/1344 APR 1963  
BY POPPLEWELL J DDC NUMBER 413770  
TEBBLE R S INSTRUMENT AF/EOGR /0054/62  
PROJ/TASK 9763 03

AFOSRJ 583  
HEBREW U JERUSALEM ISRAEL  
THE G/FACTOR OF THE 2.083 MEV  $\gamma$ - STATE OF CE SUPER 140  
PHYS LTRS 3 NO 6 291/293 FEB 1963  
BY KAPLAN N DDC NUMBER 408296  
OFER S INSTRUMENT AF 61<052>00347  
ROSNER B PROJ/TASK 9761 03

AFOSRJ 584  
CORNELL U ITHACA N Y  
EXCITATION PROCESSES IN FLAME SPECTROMETRY  
ANAL CHEM 35 266/277 1963  
BY COOKE W D DDC NUMBER 415210  
GIBSON J H INSTRUMENT AF 49<638>00484  
GROSSMAN E PROJ/TASK 9763

AFOSRJ 585  
THOMPSON RAMO WOOLDRIDGE INC CANOGA PARK CALIF  
STRUCTURE OF LANGUAGE AND ITS MATHEMATICAL ASPECTS, A REVIEW  
INTL J OF AMER LINGUISTICS 29 174/178 APR 1963  
BY GARVIN P L DDC NUMBER 296427  
INSTRUMENT AF 49<638>01128  
PROJ/TASK 9769 05

AFOSRJ 586  
SYSTEM RESEARCH LTD RICHMOND ENGLAND  
STATISTICAL COMPUTATION AND STATISTICAL AUTOMATA  
SECOND CONF ON PROBLEMS IN CYBERNETICS KARLSRUHE GERMANY  
1/18 APR 1963  
BY PASK G DDC NUMBER 409196  
INSTRUMENT AF 61<052>00640  
PROJ/TASK 9769 04

AFOSRJ 587  
MARYLAND U COLLEGE PARK  
BOUNDS FOR SOLUTIONS OF SECOND/ORDER ELLIPTIC PARTIAL  
DIFFERENTIAL EQUATIONS  
CONTRIBUTIONS TO DIFFERENTIAL EQUATIONS JOHN WILEY AND  
SONS 95/127 1963  
BY BRAMBLE J H INSTRUMENT AF 49<638>00228  
PAYNE L E PROJ/TASK 9749 01

AFOSRJ 589  
ROCHESTER U N Y  
COHERENCE/TIME AND EFFECTIVE BANDWIDTH OF BLACKBODY  
RADIATION  
NUOVO CIMENTO 28 401/408 APR 1963  
BY NEMTA C L DDC NUMBER 413772  
INSTRUMENT AF/AFOSR /0246/62  
PROJ/TASK 9767 02

AFOSRJ 590  
CALIFORNIA U LA JOLLA  
A NOTE ON THE SHORT/RANGE ORDER AT THE FERROMAGNETIC CURIE  
POINT  
J PHYS CHEM SOLIDS 24 217/218 1963  
BY FREDKIN D R DDC NUMBER 413749  
SUAL H INSTRUMENT AF 49<638>01038  
PROJ/TASK 9761 01

AFOSRJ 591  
ROCHESTER U N Y  
COOPERATIVE OPTICAL ABSORPTION IN SOLIDS  
PROC INTL CONF ON CRYSTAL LATTICE DEFECTS 1962 J PHYS  
SOC OF JAPAN 18 275 1963  
BY DEXTER D L DDC NUMBER 413799  
INSTRUMENT AF/AFOSR /0145/62  
PROJ/TASK 9761 01

AFOSRJ 592  
CALIFORNIA U LA JOLLA  
SOME CONDITIONS FOR THE APPARENT VANISHING OF THE ENERGY GA  
IN SUPERCONDUCTORS  
PHYS REV LTRS 10 NO 4 131/143 FEB 1963  
BY SUML H DDC NUMBER 414134  
INSTRUMENT AF 49<638>01038  
PROJ/TASK 9761 01

AFOSRJ 493  
 COLORADO U BOULDER  
 ELECTRICALLY INDUCED NUCLEAR QUADRUPOLE SPIN TRANSITIONS IN  
 A GASEOUS SINGLE CRYSTAL  
 PHYS REV 129 NO 5 1965/1970 MAR 1963  
 BY BRIN F DDC NUMBER 414134  
 MAHLER R J INSTRUMENT AF/AFOSR 70145/62  
 MAHON W PROJ/TASK 9763 01  
 PIERCE W I

AFOSRJ 494  
 MASSACHUSETTS INST OF TECH CAMBRIDGE  
 STABILIZATION AND CONTROL OF DC MAGNETIC FIELDS WITH  
 SUPERCONDUCTING SOLENOIDS  
 REV SCI INST 36 NO 3 29/29 MAR 1963  
 BY KONER S DDC NUMBER 414067  
 INSTRUMENT AF 194604007344  
 PROJ/TASK 9764 00

AFOSRJ 495  
 MASSACHUSETTS INST OF TECH CAMBRIDGE  
 QUANTIZATION OF ELEMENTARY PARTICLE MASSES  
 PHYS REV LRS 10 NO 5 1967/198 MAR 1963  
 BY SMIN F DDC NUMBER 414001  
 INSTRUMENT AF 194604007344  
 PROJ/TASK 9764 00

AFOSRJ 496  
 MASSACHUSETTS INST OF TECH CAMBRIDGE  
 MAGNETOREFLECTION IN BISMUTH  
 PHYS REV 129 NO 5 20/20 MAR 1963  
 BY BROWN O N DDC NUMBER 414010  
 NAVROIDES J C INSTRUMENT AF 194604007344  
 LAI R PROJ/TASK 9764 00

AFOSRJ 497  
 ILLINOIS U URBANA  
 LONG RANGE ELECTRON DENSITY OSCILLATIONS AT NONZERO  
 TEMPERATURES  
 PROC PHYS SOC B1 NO 521 412/415 1963  
 BY FLYNN C P DDC NUMBER 414009  
 ODLE R L INSTRUMENT AF/AFOSR 70192/62  
 PROJ/TASK 9763 01

AFOSRJ 498  
 WESTINGHOUSE ELECTRIC CORP WASHINGTON D C  
 EFFECT OF GRAIN BOUNDARIES ON SOLUTE PARTITIONING DURING  
 PROGRESSIVE SOLIDIFICATION  
 J APPL PHYS 33 NO 10 3106/3107 OCT 1962  
 BY TILLER W A DDC NUMBER 414373  
 INSTRUMENT AF 494638001029  
 PROJ/TASK 9761 02

AFOSRJ 499  
 PENNSYLVANIA U PHILADELPHIA  
 THE STRUCTURE OF DIMOLYBDENUM CARBIDE BY NEUTRON DIFFRACTION  
 TECHNIQUE  
 ACTA CRYSTALLOGRAPHICA 16 202/205 MAR 1963  
 BY ERWIN PARTH AND VARADACHA DDC NUMBER 414210  
 SADAGOPAN V INSTRUMENT AF 494638001027  
 PROJ/TASK 9761 02

AFOSRJ 500  
 MINNESOTA U MINNEAPOLIS  
 MICROWAVE FREE CARRIER FARADAY EFFECT IN SEMICONDUCTORS//  
 PERTURBATION THEORY FOR GUIDED WAVES  
 PHYS 20 1147-1149 1962  
 BY CHAMPLIN F S DDC NUMBER 414008  
 INSTRUMENT AF 494638001047  
 PROJ/TASK 9761 01

AFOSRJ 501  
 WESTINGHOUSE ELECTRIC CORP WASHINGTON D C  
 PREFERRED ORIENTATIONS DEVELOPED DURING THE SOLIDIFICATION  
 OF HIGH-PURITY LEAD  
 TRANS METALLURGICAL SOC OF AIME 227 47/50 FEB 1963  
 BY ROLLING G F DDC NUMBER 414007  
 KWAMER J J INSTRUMENT AF 494638001029  
 TILLER W A PROJ/TASK 9761 02

AFOSRJ 502  
 ILLINOIS U URBANA  
 METAL/GAS EQUILIBRIUM IN THE NIOBIUM/NITROGEN TERMINAL SOLI  
 SOLUTION  
 ACTA METALLURGICA 11 231/242 APR 1963  
 BY COST J R DDC NUMBER 414011  
 WERY C A INSTRUMENT AF 494638000672  
 PROJ/TASK 9763 01

AFOSRJ 503  
 ROCHESTER U N Y  
 THE FINE STRUCTURE OF ABSORPTION IN NaCl// Ag  
 PROC INTL CONF ON CRYSTAL LATTICE DEFECTS 1962 J PHYS  
 OF JAPAN 18 268/274 1963  
 BY KNOR R S DDC NUMBER 414204  
 INSTRUMENT AF/AFOSR 70145/62  
 PROJ/TASK 9761 01

AFOSRJ 504  
 POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
 NOVEL TECHNIQUE FOR CHARACTERIZATION OF ADSORPTION RATES ON  
 HETEROGENEOUS SURFACES  
 J PHYS CHEM 67 369/375 1963  
 BY NARHTALI L M DDC NUMBER 414004  
 INSTRUMENT AF 494638000337  
 PROJ/TASK 9763

AFOSRJ 505  
 PURDUE RESEARCH FOUNDATION LAFAYETTE IND  
 THE METALATION AND ALKYLATION OF MERCAPTALS  
 J ORG CHEM 28 961/964 1963  
 BY TRUCE W F DDC NUMBER 414006  
 ROBERTS JR F F INSTRUMENT AF 494638000531  
 PROJ/TASK 9762 01

AFOSRJ 507  
 CAROLINECA INST STOCKHOLM SWEDEN  
 A CORNEAL NIPPLE PATTERN IN INSECT COMPOUND EYES  
 ACTA PHYSIOL SCAND 46 185/186 1962  
 BY BERNHARD C G DDC NUMBER 414374  
 MILLER W M INSTRUMENT AF/FOAR 70013/62  
 PROJ/TASK 9777 01

AFOSRJ 508  
 SAN MARCOS NATIONAL U LIMA PERU  
 ACTION OF ANTIDIURETIC HORMONE ON THE EQUIVALENT PORE RADII  
 AT BOTH SURFACES OF THE EPITHELIUM OF THE ISOLATED TOAD SKI  
 J OF GENERAL PHYSIOLOGY 46 NO 1 117/130 SEP 1962  
 BY WHITTEMBURY C DDC NUMBER 414002  
 INSTRUMENT AF/AFOSR 70085 61  
 PROJ/TASK 9777

AFOSRJ 509  
 COMMUNICATION RESEARCH INST MIAMI FLA  
 PRODUCTIVE AND CREATIVE RESEARCH WITH MAN AND DOLPHIN  
 ARCH OF GENL PSYCHIATRY 8 111/116 FEB 1963  
 BY LILLY J C DDC NUMBER 414001  
 INSTRUMENT AF/AFOSR 70062/61  
 PROJ/TASK 9777 01

AFOSRJ 510  
 COMMUNICATION RESEARCH INST MIAMI FLA  
 CRITICAL BRAIN SIZE AND LANGUAGE  
 PERSPECTIVES IN BIOLOGY - MEDICINE 6 NO 2 246/255 1963  
 BY LILLY J C DDC NUMBER 414000  
 INSTRUMENT AF/AFOSR 70062/61  
 PROJ/TASK 9777 01

AFOSRJ 511  
 PISA U ITALY  
 OCULAR MOVEMENTS IN THE MIDPENTINE PRETRIGEMINAL PREPARATIO  
 ARCH ITAL BIOL 101 149/160 1963  
 BY KING F A DDC NUMBER 414020  
 MARCHIAPAVA G L INSTRUMENT AF 61405200107  
 PROJ/TASK 9777 01

AFOSRJ 512  
 COLUMBIA U NEW YORK N Y  
 GAUSSIAN FILTER SPECTRUM ANALYZER  
 J ACOUSTICAL SOCIETY OF AMERICA 35 447/451 1963  
 BY HARRIS C M DDC NUMBER 414216  
 WAITE W M INSTRUMENT AF/AFOSR 70251 6  
 PROJ/TASK 9769 01

AFOSRJ 513  
 COLUMBIA U NEW YORK N Y  
 DISPLAY OF SOUND SPECTROGRAPHS IN REAL TIME  
 J ACOUSTICAL SOCIETY OF AMERICA 35 729 1963  
 BY HARRIS C M DDC NUMBER 414019  
 WAITE W M INSTRUMENT AF/AFOSR 70251/6  
 PROJ/TASK 9769 01

AFOSRJ 514  
 WASHINGTON U ST LOUIS MO  
 ON RELATIONSHIPS BETWEEN NUMBERS AND BEHAVIOR  
 PSYCHOMETRICA 27 327/333 DEC 1962  
 BY DIRKIS P H DDC NUMBER 414018  
 INSTRUMENT AF/AFOSR 70181/6  
 PROJ/TASK 9778 01

AFOSRJ 515  
 CHICAGO U ILL  
 ON VISUAL ADAPTATION, I. PHOTOCHEMISTRY  
 BILL OF MATH BIOPHYSICS 24 153/159 1962  
 BY WHITE H DDC NUMBER 414012  
 INSTRUMENT AF 494638000414  
 PROJ/TASK 9777 01

AFOSRJ 516  
 BRUSSELS FREE U BELGIUM  
 EVIDENCE SHOWING A FOURTH ACOUSTIC PROJECTION AREA IN THE  
 CEREBRAL CORTEX OF THE CAT  
 J OF PHYSIOLOGY 91 NO 3 448/449 1963  
 BY DESMETS J DDC NUMBER 414720  
 MECHELS E INSTRUMENT AF 61405200120  
 PROJ/TASK 9777 01

AFOSRJ 517  
 CALIFORNIA U BERKELEY  
 UNSTABLE MODES IN THE SOLAR HYDROGEN CONVECTION ZONE  
 ASTROPHYSICAL J 137 881/890 APR 1963  
 BY KARL/HFENZ R DDC NUMBER 414074  
 INSTRUMENT AF/AFOSR 70199/  
 PROJ/TASK 9774 01

AFOSRJ 518  
 MARYLAND U COLLEGE PARK  
 UPPER AND LOWER BOUNDS FOR THE APICAL ANGLE IN THE THEORY  
 OF THE SPHERICAL PENDULUM  
 6TH NATL CONG OF APPL MECH BERKELEY CAL 1 127/135  
 JUNE 1962  
 BY DEBZ J R DDC NUMBER 414073  
 METCALF F T INSTRUMENT AF 494638000228  
 PROJ/TASK 9749 01

AFOSRJ 519  
 COLUMBIA U NEW YORK N Y  
 CONTRIBUTIONS TO THE THEORY OF TIME/OPTIMAL CONTROL  
 J OF THE FRANKLIN INST 275 NO 4 314/324 APR 1963  
 BY REINDLER F DDC NUMBER 414 76  
 INSTRUMENT AF/AFOSR 70144  
 PROJ/TASK 9748

AFOSRJ 520  
 YALE U NEW HAVEN CONN  
 A COORDINATIZATION THEOREM FOR JORDAN ALGEBRAS  
 PROC NATL ACAD SCI 48 NO 1 1194/1160 JULY 1962  
 BY JACOBSON N DDC NUMBER 414104  
 INSTRUMENT AF/AFOSR 70029  
 PROJ/TASK 9749 01

AFOSRJ 621  
YALE U NEW HAVEN CONN  
MAC DONALDS THOREM ON JORDAN ALGEBRAS  
SONDERABDRUCK AUS ARCHIV DER MATHEMATIK 13 NO 4  
241/250 1962  
BY JACOBSON N DDC NUMBER 415470  
INSTRUMENT AF/AFOSR /0029/61  
PROJ/TASK 9749 02

AFOSRJ 622  
RICE U HOUSTON TEX  
ENTIRE FUNCTIONS ON BANACH ALGEBRAS  
MICHIGAN MATH J 10 91/96 1963  
BY BROWN A DDC NUMBER 414077  
INSTRUMENT AF/AFOSR /0234/62  
PROJ/TASK 9783

AFOSRJ 623  
RICE U HOUSTON TEX  
ON THE RADIAL LIMITS OF BLASCHKE PRODUCTS  
PACIFIC J OF MATH 12 NO 3 993/998 1962  
BY MACLANE G R DDC NUMBER 415060  
RYAN F B INSTRUMENT AF 49<638>00205  
PROJ/TASK 9749 02

AFOSRJ 624  
NORTH CAROLINA U CHAPEL HILL  
BALANCED BLOCK DESIGNS WITH TWO DIFFERENT NUMBERS OF  
REPLICATES 6DEC 1962  
THE BIOMETRIC SOC 18 NO 4 499/519 DEC 1962  
BY CORSTEN L C A DDC NUMBER 414099  
INSTRUMENT AF 49<638>00213  
PROJ/TASK 9749 02

AFOSRJ 625  
YFSHIVA U NEW YORK N Y  
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BY MORGAN Y A DDC NUMBER 414142  
PERES A INSTRUMENT AF/AFOSR /0036/62  
PROJ/TASK 9751 03

AFOSRJ 626  
CATHOLIC U OF AMERICA WASHINGTON D C  
ON A FACTORIZATION OF CHARACTERISTIC FUNCTIONS WHICH HAVE A  
FINITE NUMBER OF DERIVATIVES AT THE ORIGIN  
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PARIS 11 221/224 1962  
BY LAHN R G DDC NUMBER 415195  
LUKACS E INSTRUMENT AF/AFOSR /0032/61  
PROJ/TASK 9752

AFOSRJ 627  
STANFORD U CAL  
LEVEL SPECTRA OF A EQUALS 6 NUCLEI FROM THE FREE NUCLEON//  
NEUTRON INTERACTION  
ANNALS OF PHYS 22 133/164 APR 1963  
BY DAWSON J F DDC NUMBER 414098  
WALECKA J D INSTRUMENT AF 49<638>00388  
PROJ/TASK 9751 01

AFOSRJ 629  
YALE U NEW HAVEN CONN  
A NOTE ON AUTOMORPHISMS OF LIE ALGEBRAS  
PACIFIC J OF MATH 12 NO 1 303/315 1962  
BY JACOBSON N DDC NUMBER 415130  
INSTRUMENT AF 49<638>00515  
PROJ/TASK 9749 02

AFOSRJ 630  
PENNSYLVANIA U PHILADELPHIA  
Y89 6Y4N6Y88 THRESHOLD AND THE ZR90//SR88 MASS DIFFERENCE  
NUCLEAR PHYS 40 177/185 1963  
BY GELLER K N DDC NUMBER 414141  
INSTRUMENT AF 49<638>00454  
PROJ/TASK 9750

AFOSRJ 631  
PENNSYLVANIA U PHILADELPHIA  
SYSTEM FOR ENERGY CONTROL AND ABSOLUTE CALIBRATION OF A 23  
MEV BETATRON  
NUCLEAR INSTRUMENTS AND METHODS 17 161/168 1962  
BY GELLER K N DDC NUMBER 414208  
INSTRUMENT AF 49<638>00454  
PROJ/TASK 9750

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PENNSYLVANIA U PHILADELPHIA  
SECOND/DIFFERENCE ANALYSIS OF BREMSSTRAHLUNG YIELD CURVES  
PHYS REV 120 2147/2149 DEC 1960  
BY GELLER K N DDC NUMBER 414209  
INSTRUMENT AF 49<638>00454  
PROJ/TASK 9750

AFOSRJ 634  
STANFORD U CAL  
APPLICATION OF THE VARIATION METHOD TO FIELD QUANTIZATION  
PHYS REV 130 458/464 APR 1963  
BY SCHIFF L I DDC NUMBER 414004  
INSTRUMENT AF 49<638>00388  
PROJ/TASK 9751 01

AFOSRJ 635  
KANSAS U LAWRENCE  
EXPERIMENTAL EVALUATION OF LIQUID/JUNCTION POTENTIAL  
J ANAL CHEM 35 867/871 JUNE 1963  
BY NELSON I V DDC NUMBER 414920  
WAMOTO R T INSTRUMENT AF/AFOSR /0008/61  
PROJ/TASK 9710 03

AFOSRJ 636  
CENTRE NATIONAL D-ETUDES DE PHYSIOLOGIE NERVEUSE ET  
D-ELECTROPHYSIOLOGIE PARIS FRANCE  
SENSORY RESPONSES OF THE AMYGDALA WITH SPECIAL REFERENCE TO  
SOMATIC AFFERENT PATHWAYS  
PHYSIOLOGY OF THE HIPPOCAMPUS COLLOQUES INTERNATIONAUX DU  
CENTRE DE LA RECHERCHE SCIENTIFIQUE MONTEPELLIER FRANCE  
24/26 AUG 1961  
BY WENDT R DDC NUMBER 414069  
ALBE/FESSARD D INSTRUMENT AF 61<052>00103  
PROJ/TASK 9777 01

AFOSRJ 637  
CENTRE NATIONAL D-ETUDES DE PHYSIOLOGIE NERVEUSE ET  
D-ELECTROPHYSIOLOGIE PARIS FRANCE  
CHARACTERISTICS OF THE EVOKED RESPONSES IN THE PONTINE  
RETICULAR FORMATION IN THE CAT  
COSMOS RENDUS DES SEANCES DE LA SOCIETE DE BIOLOGIE 156  
NO 7 1228/1230 1962  
BY BACH Y R P DDC NUMBER 414070  
INSTRUMENT AF 61<052>00475  
PROJ/TASK 9777 01

AFOSRJ 638  
CENTRE NATIONAL D-ETUDES DE PHYSIOLOGIE NERVEUSE ET  
D-ELECTROPHYSIOLOGIE PARIS FRANCE  
EFFECT OF TELENCEPHALIC ABLATIONS ON THE AMPLITUDE OF  
EVOKED POTENTIALS IN THE MEDIAN CENTER BY SOMATIC  
STIMULATION  
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BY MEULDERS M DDC NUMBER 414072  
MASSION J INSTRUMENT AF 61<052>00475  
COLLE J PROJ/TASK 9777 01  
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AFOSRJ 639  
CENTRE NATIONAL D-ETUDES DE PHYSIOLOGIE NERVEUSE ET  
D-ELECTROPHYSIOLOGIE PARIS FRANCE  
FIRST NEUROPHYSIOLOGICAL APPLICATIONS OF A METHOD ALLOWING  
ELECTIVE - REVERSIBLE BLOCKADE OF CENTRAL STRUCTURES BY  
LOCALIZED COOLING  
ELECTROENCEPH CLIN NEUROPHYSIOL 14 758/763 1962  
BY DONDFY M DDC NUMBER 414038  
ALBE/FESSARD D INSTRUMENT AF 61<052>00103  
LEBEAU J PROJ/TASK 9777 01

AFOSRJ 640  
ROCHESTER U N Y  
PHOTON CORRELATIONS  
PHYS REV LTRS 10 276/277 APR 1963  
BY HANDEL L DDC NUMBER 413310  
WOLF E INSTRUMENT AF/AFOSR /0246/62  
PROJ/TASK 9767 02

AFOSRJ 641  
ISTITUTO NAZIONALE DI OTTICA FLORENCE ITALY  
MUTUAL TIME INFLUENCE OF BLUE AND RED  
ELECTRORETINOGRAPHIC RESPONSES  
ATTI DELLA FONDAZIONE C RONCHI 18 NO 2 239/246  
MAR / APR 1963  
BY ERCOLIS A M DDC NUMBER 414016  
INSTRUMENT AF/EOAR /0004/63  
PROJ/TASK 9777 01

AFOSRJ 642  
ISTITUTO NAZIONALE DI OTTICA FLORENCE ITALY  
ON THE CHARACTERISTICS OF OBSERVERS EMPLOYED IN VISUAL  
RESEARCH  
ATTI DELLA FONDAZIONE G RONCHI 18 NO 2 203/219 MAR /  
APR 1963  
BY RONCHI L DDC NUMBER 414015  
MERI G F INSTRUMENT AF/EOAR /0004/63  
PROJ/TASK 9777 01

AFOSRJ 643  
WISCONSIN U MADISON  
CONTROL OF ENZYME SYNTHESIS IN MICROORGANISMS  
13TH MTG OF SOC FOR PHYSIOLOGICAL CHEMISTRY MOSBACH6  
BADEN GERMANY 3/5 MAY 1962  
BY HALVERSON H O INSTRUMENT AF/AFOSR /0205/62  
HERMANN A PROJ/TASK 9777 01  
OKADA H  
GORMAN J

AFOSRJ 644  
WISCONSIN U MADISON  
SEPARATION OF LABELED FROM UNLABELED PROTEINS BY EQUILIBRIUM  
DENSITY GRADIENT SEDIMENTATION  
ANALYTICAL BIOCHEMISTRY 4 NO 6 489/504 1962  
BY HU A S L DDC NUMBER 413634  
BOCK R M INSTRUMENT AF/AFOSR /0205/62  
HALVORSON H O PROJ/TASK 9777 01

AFOSRJ 645  
WISCONSIN U MADISON  
COMPARISON OF THE ALPHA/GLUCOSIDASES OF SACCHAROMYCES  
PRODUCED IN RESPONSE TO FIVE NON/ALLELIC MALTOSE GENES  
BIOCHIM BIOPHYS ACTA 67 42/53 1963  
BY HALVORSON H O DDC NUMBER 413633  
WINDERMAN S INSTRUMENT AF/AFOSR /0205/62  
GORMAN J PROJ/TASK 9777 01

AFOSRJ 646  
PENNSYLVANIA U PHILADELPHIA  
COMPARISON OF THE REGULATION OF LUTEINIZING HORMONE 6LNG  
SECRETION IN IMMATURE AND ADULT RATS  
ENDOCRINOLOGY 72 NO 3 452/464 MAR 1963  
BY RAMIREZ D V DDC NUMBER 414519  
MCCANN S M INSTRUMENT AF/AFOSR /0133/62  
PROJ/TASK 9777 01

AFOSRJ 647  
STANFORD U CAL  
INELASTIC ELECTRON SCATTERING STUDIES. CU63, IN115, TA181,  
P3278 AND R1290  
PHYS REV 130 245/258 APR 1963  
BY KENDALL H W INSTRUMENT NONR /2256/62  
OFER J PROJ/TASK 9751 01

AFOSRJ 648  
CATHOLIC U OF LOUVAIN BELGIUM  
KINETICS OF THE PROPYLENE/OXYGEN FLAME REACTION  
COMBUSTION AND FLAME 7 83/88 MAR 1963  
BY RIJKE B DDC NUMBER 413632  
VAN TIGGELEN A INSTRUMENT AF/EOAR /0065/62  
PROJ/TASK 9750 02

**AFOSRJ 649**  
 TECHNISCHE HOCHSCHULE MUNICH WEST GERMANY  
 DIFFERENZIERENVERFAHREN FUR HYPERBOLISCHE ANFANGSWERTPROBLEME  
 BEI MEHR ALS ZWEI UNABHANGIGEN VERANDERLICHEN MIT HILFE VON  
 NEBENCHARAKTERISTIKEN  
 NUMERISCHE MATHEMATIK 5 55/67 1963  
 BY SAUER R DDC NUMBER 418156 /0094/62  
 INSTRUMENT AF/EOAR  
 PROJ/TASK 9749 01

**AFOSRJ 650**  
 MCMASTER U HAMILTON ONTARIO CANADA  
 NEUTRON SEPARATION ENERGIES FOR ZIRCONIUM AND THE ZR96/NB96  
 AND NB94/ZR94 DECAY ENERGIES  
 CANADIAN J OF PHYS 41 696/701 1963  
 BY BARBER R C DDC NUMBER 413466 /0033/62  
 BISHOP R L INSTRUMENT AF/AFOSR  
 MCLATCHIE W PROJ/TASK 9751 02  
 VAN ROOKHUYZEN P  
 DUCKWORTH H E

**AFOSRJ 651**  
 MINNESOTA U MINNEAPOLIS  
 BROWNIAN MOTION ON MANY/PARTICLE SYSTEMS  
 J CHEM PHYS 38 1446 MAR 1963  
 BY PRAGER S DDC NUMBER 415429 /0044/62  
 WOODRURY G INSTRUMENT AF/EOAR  
 PROJ/TASK 9760 03

**AFOSRJ 652**  
 CAMBRIDGE U ENGLAND  
 HORMONAL CONTROL OF BROOD PATCH AND OVIDUCT DEVELOPMENT IN  
 DOMESTICATED CANARIES  
 J ENDOCRIN 26 11/24 1963  
 BY STEEL E A DDC NUMBER 413465 /0044/62  
 HINDE R A INSTRUMENT AF/EOAR  
 PROJ/TASK 9777 01

**AFOSRJ 653**  
 COLUMBIA U NEW YORK N Y  
 EFFECTS OF HELIUM BUFFER GAS ATOMS ON THE ATOMIC HYDROGEN  
 HYPERFINE FREQUENCY  
 J CHEM PHYS 36 2211/2216 1962  
 BY CLARKE G A DDC NUMBER 415396 /0228/62  
 INSTRUMENT AF/AFOSR  
 PROJ/TASK 9760 02

**AFOSRJ 655**  
 WASHINGTON U SEATTLE  
 THE RELATION BETWEEN CONFORMATION AND LIGHT ABSORPTION IN  
 POLYPEPTIDES AND PROTEINS  
 POLYAMINO ACIDS POLYPEPTIDES AND PROTEINS  
 U OF WISCONSIN PRESS 13 147/157 1962  
 BY TINOCO I DDC NUMBER 415108 /0064/63  
 HALPERN A INSTRUMENT AF/AFOSR  
 SIMPSON W T PROJ/TASK 9760 02

**AFOSRJ 656**  
 MELLON INST OF INDUSTRIAL RESEARCH PITTSBURGH PA  
 ROTATIONAL ISOMERISM ABOUT SINGLE BONDS IN OLEFINIC  
 COMPOUNDS  
 DISCUSSION OF THE FARADAY SOC 34 127/131 1962  
 BY BOTHNER/BY A DDC NUMBER 414206 /0183/63  
 GUNTHER H INSTRUMENT AF/49C638>00980  
 PROJ/TASK 9710 03

**AFOSRJ 657**  
 OREGON STATE U CORVALLIS  
 THE MECHANISM OF THE DISPROPORTIONATION OF SULFINIC ACIDS  
 THE THERMAL DECOMPOSITION OF P-TOLUENESULFINYL P-TOLYL  
 SULFONE AND ITS REACTION WITH P-TOLUENESULFINIC ACID  
 J ORGANIC CHEM 28 1162 1963  
 BY RICE J J DDC NUMBER 415467 /0106/63  
 PAWLOWSKI M E INSTRUMENT AF/AFOSR  
 PROJ/TASK 9762 03

**AFOSRJ 659**  
 MCMASTER U HAMILTON ONTARIO CANADA  
 THE VACUUM VIBRATOR AS A SOURCE OF IONS FOR MASS  
 SPECTROSCOPY  
 CANADIAN J OF PHYS 41 234/239 1963  
 BY VENKATASURAMANIAN V S DDC NUMBER 413466 /0033/62  
 DUCKWORTH H E INSTRUMENT AF/AFOSR  
 PROJ/TASK 9751 02

**AFOSRJ 660**  
 LIEGE U BELGIUM  
 RESONANCE NUTRE QUADRIPOLEAIRE DANS LES CRISTAUX IRRADIE  
 BULLETIN AMP 9 FASC SPECIAL 1960  
 BY DEPIREUX J DDC NUMBER 415467 /0106/63  
 CORNET J INSTRUMENT AF/61C052>00167  
 READ M PROJ/TASK 9760  
 DUCHESNE J

**AFOSRJ 661**  
 COLORADO U BOULDER  
 THEORETICAL CALCULATIONS OF STRESS RELAXATION IN  
 CONCENTRATED SOLUTIONS  
 J POLYMER SCIENCE PART A 1 1779/1787 1963  
 BY TEGGENBURGER R DDC NUMBER 414924 /0033/62  
 BECK K INSTRUMENT AF/49C638>00310  
 GILL S J PROJ/TASK 9760

**AFOSRJ 662**  
 COLORADO U BOULDER  
 ANISOTROPIC PROPERTIES OF STRAINED VISCOELASTIC FLUIDS. III  
 BIREFRINGENCE OF POLYSTYRENE SOLUTIONS  
 J POLYMER SCIENCE PART A 1 1765/1778 1963  
 BY GILL S J DDC NUMBER 415175 /0033/62  
 TEGGENBURGER R INSTRUMENT AF/49C638>00310  
 PROJ/TASK 9760

**AFOSRJ 663**  
 CALIFORNIA U BERKELEY  
 THE BONDING IN THE INERT GAS/HALOGEN COMPOUNDS/THE LIKELY  
 EXISTENCE OF HELIUM DIFLUORIDE  
 J AMER CHEM SOC 85 826 1963  
 BY PIMENTEL G C DDC NUMBER 415043 /0094/62  
 SPRATLEY R D INSTRUMENT AF/49C638>00944  
 PROJ/TASK 9760 01

**AFOSRJ 664**  
 TUFTS U MEDF RD MASS  
 THE MOLOZO IDE AS AN INTERMEDIATE IN THE ALKEN/OZONE  
 REACTION  
 J ORG CHEM 28 1159 1963  
 BY GREEN OOD F L DDC NUMBER 415477 /0033/62  
 COHEN S INSTRUMENT AF/49C638>00292  
 PROJ/TASK 9760

**AFOSRJ 665**  
 CALIFORNIA U BERKELEY  
 MATRIX TECHNIQUE AND ITS APPLICATION IN THE FIELD OF  
 CHEMICAL PHYSICS  
 PURE AND APPLIED CHEM 4 61/70 1962  
 BY PIMENTEL G C DDC NUMBER 415043 /0033/62  
 INSTRUMENT AF/AFOSR  
 PROJ/TASK 9760 01

**AFOSRJ 667**  
 ROCHESTER U N Y  
 THE PHOTOCHEMISTRY OF MIXTURES OF 2/PENTANONE AND 2/HEXANON  
 WITH BIACETYL  
 J AMER CHEM SOC 85 1027/1032 1963  
 BY NOYES JR W A DDC NUMBER 415469 /0033/62  
 MICHAEL J L INSTRUMENT AF/49C638>00679  
 PROJ/TASK 9760 02

**AFOSRJ 668**  
 ROCHESTER U N Y  
 THE PHOTOCHEMISTRY OF METHYLAMINE  
 J AMER CHEM SOC 85 1228/1233 1963  
 BY NOYES JR W A DDC NUMBER 415395 /0033/62  
 MICHAEL J L INSTRUMENT AF/49C638>00679  
 PROJ/TASK 9760 02

**AFOSRJ 669**  
 LIEGE U BELGIUM  
 ORIGIN OF FREE RADICALS IN CARBONACEOUS ROCKS  
 GEODIMICA ET COSMOCHIMICA ACTA 23 209/218 1961  
 BY DUCHESNE J DDC NUMBER 415402 /0033/62  
 DEPIREUX J INSTRUMENT AF/61C052>00167  
 VANDERKAA J PROJ/TASK 9760

**AFOSRJ 670**  
 BUREAU OF MINES BARTLESVILLE OKLA  
 1,2-DIFLUOROBENZENE. CHEMICAL THERMODYNAMIC PROPERTIES AND  
 VIBRATIONAL ASSIGNMENT  
 J CHEM PHYS 38 532/539 JAN 1963  
 BY SCOTT D W DDC NUMBER 413631 /680/57/4  
 MESSORLY J F INSTRUMENT CSO  
 TOLD S PROJ/TASK 4759  
 HOSSENLOPP I  
 OKROBN A  
 MCCULLOUGH P

**AFOSRJ 671**  
 YALE U NEW HAVEN CONN  
 FLASH/PHOTOLYTIC DECOMPOSITION OF GASEOUS ALKYL  
 AZIDOFORMATES  
 J AMER CHEM SOC 85 1199 1963  
 BY BERRY R S DDC NUMBER 415468 /0183/63  
 CORNELL D INSTRUMENT AF/AFOSR  
 LWOWSKI W PROJ/TASK 9760 02

**AFOSRJ 672**  
 STANFORD U CAL  
 EYE COLLIDING BEAM EXPERIMENT & THEORETICAL  
 PROC 10TH ANNUAL CONF ON HIGH ENERGY PHYS ROCHESTER  
 771/774 AUG 1961  
 BY SU TSAI Y DDC NUMBER 415104 /0033/62  
 INSTRUMENT AF/49C638>00388  
 PROJ/TASK 9751 01

**AFOSRJ 673**  
 STANFORD U CAL  
 RADIATIVE CORRECTIONS TO THE E/E SCATTERING  
 IL NUOVO CIMENTO 16 370/372 APR 1960  
 BY SU TSAI Y DDC NUMBER 413462 /0033/62  
 INSTRUMENT AF/49C638>00388  
 PROJ/TASK 9751 01

**AFOSRJ 674**  
 KANSAS STATE U MANHATTAN  
 A VERSATILE ELECTRONIC TRACKING APPARATUS & VLTA6  
 PERCEPTUAL AND MOTOR SKILLS 16 649/656 1963  
 BY TRUMBO D DDC NUMBER 413463 /0017/62  
 ESLINGER R INSTRUMENT AF/AFOSR  
 NOLF M PROJ/TASK 9778 01  
 GROSS K

**AFOSRJ 675**  
 HARVARD U CAMBRIDGE MASS  
 CHEMISTRY OF THE METAL CARBOXYLS. PART XXII.  
 PERFLUOROPROPYL AND PERFLUOROTHYL/61.  
 2/BIS(DIPHENYLPHOSPHINO)ETHANE NICKEL IODIDE  
 J CHEM SOC 723/724 1963 BRITISH  
 BY MCCRINDIE D W DDC NUMBER 414923 /0033/62  
 STAFFORD S L INSTRUMENT AF/49C638>00518  
 STONE F G A PROJ/TASK 9762

**AFOSRJ 677**  
 STANFORD U CAL  
 SYMMETRY OF THE ND/1 SOLUTIONS FOR COUPLED SCATTERING  
 AMPLITUDES  
 PHYS REV 121 1250 FEB 1961  
 BY BJORKEN J D DDC NUMBER 413625 /0033/62  
 INSTRUMENT AF/49C638>00388  
 PROJ/TASK 9751 01

**AFOSRJ 678**  
 STANFORD U CAL  
 EQUIVALENCE PRINCIPLE PARADOX IN THE MOTION OF A GYROSCOPE  
 IL NUOVO CIMENTO 17 124/125 JULY 1960  
 BY SCHIFF L J DDC NUMBER 413625 /0033/62  
 INSTRUMENT AF/49C638>00388  
 PROJ/TASK 9751 01

AFOSRJ 670  
STANFORD U CAL  
THE BINDING ENERGY OF LAMBDA PARTICLES IN NUCLEAR MATTER  
IL NUOVO CIMENTO 16 362/369 APR 1960  
BY WALECKA J D  
DDC NUMBER 413624  
INSTRUMENT AF 49C638000380  
PROJ/TASK 9751 01

AFOSRJ 682  
OHIO STATE U COLUMBUS  
SYNTHESIS AND PROPERTIES OF HIGHLY HINDERED ALIPHATIC ACIDS  
J AMER CHEM SOC 85 1176/1178 1963  
BY NEWMAN H K  
FUKUHARA T  
DDC NUMBER 412381  
INSTRUMENT AF 33C618000312  
PROJ/TASK 9762

AFOSRJ 684  
CALIFORNIA U BERKELEY  
INFRARED SPECTRA OF AMMONIA SUSPENDED IN SOLID NITROGEN  
J OF CHEM PHYS 36 NO 122 500/506 JAN 1962  
BY PIMENTEL G C  
RULANIN M D  
VANTHIEL M  
DDC NUMBER 413627  
INSTRUMENT AF 49C638000944  
PROJ/TASK 9760 01

AFOSRJ 686  
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BY SRINIVASAN R  
DDC NUMBER 414921  
INSTRUMENT AF 49C638000679  
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BY SRINIVASAN R  
DDC NUMBER 414922  
INSTRUMENT AF 49C638000679  
PROJ/TASK 9760 02

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WASHINGTON U SEATTLE  
THE ELECTRONIC SPECTRA OF DIPHENYLETHANE DYES  
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DDC NUMBER 415444  
INSTRUMENT AF 18C600000385  
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GENERAL ELECTRIC CO SCHENECTADY N Y  
ADSORPTION ON CLEAN SURFACES  
ANNALS OF THE N Y ACAD OF SCI 101 722/755 1963  
BY EHRLICH G  
DDC NUMBER 414110  
INSTRUMENT AF 49C638000791  
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J CHEM PHYS 38 NO 7 1536/1540 APR 1963  
BY CARR E F  
DDC NUMBER 413629  
INSTRUMENT AF/AFOSR /0045/61  
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TEXAS U AUSTIN  
RACIAL PREJUDICE, INTERPERSONAL ATTRACTION, AND ASSUMED  
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J ABNORMAL AN SOCIAL PSYCH 65 NO 4 246/253 1962  
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WONG T J  
DDC NUMBER 413778  
INSTRUMENT AF 49C638000460  
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MARTIN MARIETTA CORP RIAS INC BALTIMORE MD  
LOCALLY ONE-TO-ONE MAPPINGS AND A CLASSICAL THEOREM ON  
SCHLICHT FUNCTIONS, DEC. 1961  
DUKE MATH J 32 NO 1 63/80 MAR 1963  
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OLECH C  
DDC NUMBER 413628  
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HARVARD U CAMBRIDGE MASS  
ENERGY AND MOMENTUM DENSITY IN FIELD THEORY  
PHYS REV 130 800/804 15 APR 1963  
BY SCHWINGER J  
DDC NUMBER 413676  
INSTRUMENT AF 49C638000589  
PROJ/TASK 9751 01

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INST FOR ADVANCED STUDY PRINCETON N J  
LOWER BOUNDS FOR ALL EIGENVALUES BY CELL FUNCTIONS. A  
REFINED FORM OF H. F. WEINBERGERS METHOD  
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PROJ/TASK 9749 02

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DUPONT U LAFAYETTE IND  
COORDINATION CHAIN REACTIONS. EXCHANGE BETWEEN  
ETHYLENEDIAMINETETRAACETATOCUPRATE 6116 AND  
TRIMETHYLENEDIAMINENICKEL 6116  
J AMER CHEM SOC 84 297/303 1963  
BY OLSON D C  
MIRGREN D W  
DDC NUMBER 413644  
INSTRUMENT AF 49C638000060  
PROJ/TASK 9763

AFOSRJ 694  
CAMBRIDGE U ENGLAND  
AN INVESTIGATION OF THE ORDERING OF THE PHASES COAL AND NIA  
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BY COOPER M J  
DDC NUMBER 414170  
INSTRUMENT AF/EOAR /0024/61  
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CAMBRIDGE U ENGLAND  
THE ELECTRON DISTRIBUTION IN THE PHASES COAL AND NIA  
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BY COOPER M J  
DDC NUMBER 414169  
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ROCHESTER U N Y  
BAND STRUCTURE OF WHITE TIN  
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BY MIASIK M  
DDC NUMBER 414180  
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HYDROGEN ATOMS. IV. APPROXIMATE VALUES FOR ALLOWED  
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DDC NUMBER 414171  
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DDC NUMBER 414118  
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DDC NUMBER 413630  
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DDC NUMBER 413399  
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DDC NUMBER 413637  
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DDC NUMBER 413639  
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DDC NUMBER 413635  
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OPTIMIZATION OF STOCHASTIC TRAJECTORIES, 1963  
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STEINKER G F  
KRUPP R  
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PROJ/TASK 9783

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EMBER G  
DDC NUMBER 415397  
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PROJ/TASK 9769 02

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THEFF M L  
DDC NUMBER 415444  
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DDC NUMBER 414129  
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DDC NUMBER 413966  
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DDC NUMBER 414138  
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DDC NUMBER 414191  
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TANNER D D  
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DDC NUMBER 413968  
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TURCOTTE D  
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INSTRUMENT AF 49C63800084  
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DDC NUMBER 414144  
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DDC NUMBER 413642  
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MANN H P  
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DDC NUMBER 413644  
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DDC NUMBER 413645  
INSTRUMENT AF/AFOSR 70235/62  
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DDC NUMBER 413636  
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LUMME P  
DDC NUMBER 414031  
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BY JOHANSSON G  
DDC NUMBER 414050  
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D NUMBER 414046  
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ROYAL INST OF TECH STOCKHOLM SWEDEN  
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DDC NUMBER 414049  
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DDC NUMBER 414042  
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REARMAN R J  
DDC NUMBER 414291  
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BY COWELL R D  
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WEISSMAN S J  
DDC NUMBER 414041  
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DDC NUMBER 414043  
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DDC NUMBER 414044  
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DDC NUMBER 414070  
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WARNER AND SWASEY CO FLUSHING N Y  
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POLATION FROM LABORATORY MEASUREMENTS, 1963  
J QUANT SPECTROSC RADIAT TRANSFER 3 15/27 1963  
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TOURIN R W  
DDC NUMBER 414040  
INSTRUMENT AF 49C638001117  
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ACTIVE AND PASSIVE MOVEMENT IN THE PRODUCTION OF KINESTHETIC  
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DDC NUMBER 414081  
INSTRUMENT AF/AFOSR 70053/63  
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ASTRONOMICAL J. 68 147/151 APR 1963  
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DDC NUMBER 41385  
INSTRUMENT AF 49C638>00814  
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CONCEPT OF FIELD MODES AND THE BEHAVIOR OF THE  
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PHYS OF FLUIDS 6 291/293 FEB 1963  
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DDC NUMBER 414028  
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DDC NUMBER 414032  
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DDC NUMBER 413373  
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RODDIA J R  
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INSTRUMENT AF/EOAR 70035/62  
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KLOPFENSTEIN R F  
DDC NUMBER 408089  
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PROC OF THE OPTIMUM SYS SYN CONF ASD WRIGHT PATTERSON  
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BY BALAKRISHNAN A V  
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INSTRUMENT AF/AFOSR 70068/62  
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DDC NUMBER 293152  
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ALEXANDRO JR F J  
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DDC NUMBER 408265  
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ARKIV FOR FYSIK 22 139/146 1962  
BY MATTHIAS F  
EARLSSON F  
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DDC NUMBER 411236  
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PROJ/TASK 9741 02

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SILLEN L G  
DDC NUMBER 412767  
INSTRUMENT AF 61C042>00162  
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DDC NUMBER 412974  
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DDC NUMBER 413708  
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BLACK C C  
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DDC NUMBER 413553  
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DDC NUMBER 413563  
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DDC NUMBER 408390  
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PRINCETON U N J  
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BY BAERLEIN R F  
SHARP D H  
WHEELER J A  
DDC NUMBER 407730  
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PRINCETON U N J  
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DDC NUMBER 413457  
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DDC NUMBER 413381  
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DDC NUMBER 411442  
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DDC NUMBER 411440  
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DDC NUMBER 413691  
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PRINCETON U N J  
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DDC NUMBER 413380  
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DDC NUMBER 413470  
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GOLDREGER M L  
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SHEPARD L A  
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PINGS C J  
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BARMAN R J  
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BERRIGAN P J  
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CHARACTERISTICS REQUIRED IN ELECTRICAL PULSES OF RECTANGULAR  
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BY MC ILWAIN H  
JOANNY P  
DDC NUMBER 416522  
INSTRUMENT AF/EOAR /0004/62  
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WESTERN RESERVE U CLEVELAND OHIO  
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DDC NUMBER 416517  
INSTRUMENT AF 49<638>00764  
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ROME U ITALY  
MODIFICATION OF THE PRIMARY EVOKED RESPONSE OF THE  
VISUAL AREA IN THE MONKEY DURING CONDITIONED BEHAVIOR  
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VALA I F  
ZAMPARDI L  
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DDC NUMBER 416519  
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DDC NUMBER 416554  
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QUERTIER J  
INSTRUMENT AF 61<052>00356  
PROJ/TASK 9777 01

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SHARMA D F  
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DETAILED FLOW/FIELD OBSERVATIONS IN THE TRANSITION  
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NUTANT J  
DDC NUMBER 416384  
INSTRUMENT AF 49<638>00645  
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COVERT E F  
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BY BERGSTROM I  
DAVIES J A  
DOMEIJ B  
UHLER J  
DDC NUMBER 416379  
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FORSLING W  
ASTROM B  
DDC NUMBER 416378  
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DOMEIJ B  
NORR G S  
DDC NUMBER 416381  
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CORNELL U ITHACA N Y  
RECOIL PHOTONS FROM SCATTERING OF STARLIGHT BY  
RELATIVISTIC ELECTRONS  
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1963  
BY FELTEN J F  
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DDC NUMBER 416383  
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GOLDBERG S I  
DDC NUMBER 415836  
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DDC NUMBER 416044  
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DDC NUMBER 415835  
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DDC NUMBER 415881  
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DDC NUMBER 415880  
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KATJUMA Y  
COVINGTON A E  
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INSTRUMENT AF 49<638>01059  
PROJ/TASK 9767 02

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WINDS G  
DDC NUMBER 418253  
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INSTRUMENT AF 49<638>00873  
PROJ/TASK 9774 02

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WARRER C F  
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BY CALLAHAN W R  
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DDC NUMBER 415987  
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DDC NUMBER 416591  
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DDC NUMBER 415996  
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DDC NUMBER 415854  
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DDC NUMBER 415651  
INSTRUMENT AF 49C638>00235  
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DDC NUMBER 415991  
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DDC NUMBER 415990  
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DDC NUMBER 415989  
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DDC NUMBER 427703  
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DDC NUMBER 427524  
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MILLER W H  
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DDC NUMBER 427532  
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WILLIS W D  
DDC NUMBER 427530  
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SWEDEN PERGAMON PRESS LONDON 1963  
BY VON EULER U S  
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DDC NUMBER 427579  
INSTRUMENT AF 61605200309  
PROJ/TASK 9777 01

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DDC NUMBER 427704  
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APOSJ1418  
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DDC NUMBER 427573  
INSTRUMENT AF 61605200309  
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VON EULER U S  
FRANKENHAUSER W  
DDC NUMBER 427574  
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BY VON EULER U S  
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DDC NUMBER 427580  
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PROJ/TASK 9777 01

APOSJ1421  
GENOVA U ITALY  
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DDC NUMBER 427581  
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PROJ/TASK 9777 01

APOSJ1422  
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DDC NUMBER 427574  
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APOSJ1423  
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INHIBITION OF ISOCITRATE LYASE  
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DDC NUMBER 427574  
INSTRUMENT AF/EOAR 70077/62  
PROJ/TASK 9777 01

APOSJ1424  
LONDON U ENGLAND  
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PRINCIPLES I  
PROC INTL CONG TECHNOL BLINDNESS NEW YORK N Y 6  
35/48 1962 PUB AMER FOUND FOR BLIND 1963  
BY DYE D J  
DDC NUMBER 427531  
INSTRUMENT AF/EOAR 70037/63  
PROJ/TASK 9777 01

APOSJ1425  
LONDON U ENGLAND  
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MOTH  
PROC RIV SOC ZOOLOGICAL SCI E 158 196/207 1963  
BY REEST A D  
COLLETTI T  
DYE J D  
DDC NUMBER 427577  
INSTRUMENT AF/EOAR 70037/63  
PROJ/TASK 9777 01

APOSJ1426  
PENNSYLVANIA U PHILADELPHIA  
A HIGHLY SENSITIVE TEST FOR LH/RELEASING ACTIVITY 7 THE  
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MCCANN S M  
DDC NUMBER 427578  
INSTRUMENT AF/APOSR 70133/62  
PROJ/TASK 9777 01

APOSJ1427  
CORNELL U ITHACA N Y  
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PHOTOSYNTHESIS IN CARBON DIOXIDE LABELLED WITH CARBON-14 BY  
ANALYSIS NIDULANT  
NATURE 200 NO 4904 260/261 19 07 1963  
BY KINDEL P  
GIARDIN M  
DDC NUMBER 427533  
INSTRUMENT AF 69663800798  
PROJ/TASK 9777 01

APOSJ1428  
MARTIN MARIETTA CORP WIAS INC BALTIMORE MD  
TWO LIGHT REACTIONS IN 14C REDUCTION BY SPINACH CHLOROPLAST  
ARCH BIOPHYS 102 430/438 1963  
BY MOCH G  
MARTIN I  
DDC NUMBER 427570  
INSTRUMENT AF 69663800947  
PROJ/TASK 9777 01



AFOSRJ1429  
MARTIN MARIETTA CORP RIAS INC BALTIMORE MD  
SIGNIFICANCE OF P/700 AS AN INTERMEDIATE IN PHOTOSYNTHESIS  
PROC INTL CONG BIOCHEM 65TH 6 73/81 1963 MOSCOW  
RUSSIA 1961  
RY KOK R DDC NUMBER 427571  
INSTRUMENT AF 49<638>00947  
PROJ/TASK 9777 01

AFOSRJ1430  
MARTIN MARIETTA CORP RIAS INC BALTIMORE MD  
ENHANCEMENT AND DE/ENHANCEMENT EFFECT IN ANACYSTIS NIDULANS  
BIOCHIM BIOPHYS ACTA 75 183/186 1963  
BY OWENS O V H DDC NUMBER 427577  
HOCH G INSTRUMENT AF 49<638>00947  
PROJ/TASK 9777 01

AFOSRJ1431  
KAROLINSKA INST STOCKHOLM SWEDEN  
POSITIVE INOTROPIC RESPONSES AND CATECHOLAMINE CONTENT OF  
ISOLATED RABBIT ATRIA EXPOSED TO TYRAMINE  
ACTA PHYSIOL SCAND 59 161/168 1963  
BY ANGELAKOS E T DDC NUMBER 427529  
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PROJ/TASK 9777 01

AFOSRJ1434  
HARVARD U CAMBRIDGE MASS  
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STRUCTURE & THEORETICAL  
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JULY 1963 GORDON AND BREACH SCI PUB DDC NUMBER 427707  
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PROJ/TASK 9751 01

AFOSRJ1435  
STANFORD U CAL  
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PHYS REV 131 NO 5 2239/2241 1 SEP 1963  
BY OAKES R J DDC NUMBER 427708  
INSTRUMENT AF 49<638>00388  
PROJ/TASK 9751 01

AFOSRJ1436  
WEIZMAN INST OF SCIENCE REHOVOTH ISRAEL  
NUCLEAR STRUCTURE AND THE OPTICAL MODEL  
PROC CONF DIRECT INTERACTIONS NUCL MECHANISMS 195/196  
JULY 1963 GORDON AND BREACH SCI PUB DDC NUMBER 427706  
BY REINER A S INSTRUMENT AF 61<052>00337  
PROJ/TASK 9751 02

AFOSRJ1437  
PURDUE RESEARCH FOUNDATION LAFAYETTE IND  
MAGNETIC FIELD AND PHASE TRANSITION IN THIN FILM  
SUPERCONDUCTORS  
PHYS REV LTRS 11 NO 3 119/121 1 AUG 1963  
BY NAMBU Y DDC NUMBER 427711  
TUAN S F INSTRUMENT AF/AFOSR /0274/63  
PROJ/TASK 9751 02

AFOSRJ1438  
COLORADO U BOULDER  
AMPLITUDES - CROSSING RELATIONS IN ISOSPIN  
NUOVO CIMENTO SER 10 28 112/117 APR 1963  
BY BARUT A O DDC NUMBER 427712  
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PROJ/TASK 9751 03

AFOSRJ1439  
COLORADO U BOULDER  
ON THE SYMMETRY OF ELEMENTARY PARTICLES / II  
NUOVO CIMENTO SER 10 27 1269/1271 MAR 1963  
BY BARUT A O DDC NUMBER 427717  
INSTRUMENT AF/AFOSR /0030/63  
PROJ/TASK 9751 03

AFOSRJ1440  
STANFORD U CAL  
ANALYSIS OF H3 AND HE3 FORM FACTORS AND THE DETERMINATION  
OF THE CHARGE FORM FACTOR OF THE NEUTRON  
PHYS REV LTRS 11 NO 8 387/390 15 OCT 1963  
BY SCHIFF L I DDC NUMBER 427716  
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COLLARD M PROJ/TASK 9751 01  
HOFATADIER R  
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AFOSRJ1441  
SYDNEY U AUSTRALIA  
THE MEAN FREE PATH OF PROTONS AT 3 TEV INTERACTION  
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BY DAY G DDC NUMBER 426556  
GAULD C F INSTRUMENT AF/AFOSR /0410/62  
MCCUSKER C B A PROJ/TASK 9774 02  
PEAK L S

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A NEW METHOD OF RECORDING LARGE COSMIC RAY AIR SHOWERS  
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BY MCCUSKER C B A DDC NUMBER 426555  
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ANISOTROPIES OF COSMIC RAY JETS - EQUILIBRIUM, THEORIES OF  
MESON PRODUCTION  
NUOVO CIMENTO SER 10 28 444/445 APR 1963  
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ZERO/SPIN ASSIGNMENT FOR THE 2.05 MEV STATE OF N162 FROM A  
6P+P R/R6  
PHYS REV 131 NO 1 318/321 1 JULY 1963  
BY SEN GUPTA A K DDC NUMBER 424350  
VAN PATTEN D M INSTRUMENT AF/AFOSR /0217/62  
PROJ/TASK 9751 02

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BRANDEIS U WALTHAM MASS  
RENORMALIZATION GROUP AND REGGE BEHAVIOUR  
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NOTE ON UNIQUENESS OF CANONICAL  
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OF EXPERIMENTAL VESICAL CALCULI IN MALE RATS  
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TALBOT L INSTRUMENT AF 49<638>00502  
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VORTICITY EFFECTS ON HEAT TRANSFER TO THE CONICAL PORTION OF  
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6TH BOWWASH SYMPOSIUM OF AEROBALLISTICS WASH D C 1963  
BY TING L DDC NUMBER 426427  
INSTRUMENT AF/AFOSR /0001/63  
PROJ/TASK 9781 01

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THERMOELASTIC DISSIPATION IN VIBRATING PLATES  
AMER SOC MECH ENG CONF APPL MECH DIV 6 SUMMER 6  
ITHACA N Y JUNE 1963  
BY TASI J DDC NUMBER 426489  
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TEXAS U AUSTIN  
EFFECT OF OXYGEN AND CHLORINE ON THERMAL REACTIONS OF  
ACETYLENE  
J PHYS CHEM 67 1582/1586 AUG 1963  
BY MUNSON M S B DDC NUMBER 426517  
ANDERSON R C INSTRUMENT AF 18<603>00142  
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\*\*COMPARATIVE STUDIES OF PYROLYSIS OF ACETYLENE,  
VINYLACETYLENE, AND DIACETYLENE\*\*  
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BY HOU K C ANDERSON R C DDC NUMBER 426551  
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\*\*SYNTHESIS OF BORON CHLOROPERCHLORATES AND BORON  
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BY GROSS P HAYMAN C LEVY D L LEWIN R H DDC NUMBER 426428  
INSTRUMENT AF 61<052>00405  
PROJ/TASK 9750 01

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IN DEFENSE OF THE USE OF ATOMIC ORBITAL CONFIGURATION WAVE  
FUNCTIONS FOR SMALL MOLECULES  
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BY MATSEN F A BROWNE J C DDC NUMBER 426345  
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PROJ/TASK 9750 02

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STEVENS INST OF TECH HOBOKEN N J  
MEASUREMENTS OF B<sub>1</sub> E<sub>1</sub> AND N INSIDE THE SIMULATED  
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PHYS FLUIDS 6 NO 9 SEP 1963  
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PROJ/TASK 9752 01

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NEW LOWER LIMIT FOR THE BINDING ENERGY OF THE HELIUM  
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PROJ/TASK 9711 01

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BY VFBR M J GLASSMANN I INSTRUMENT AF/AFOSR /0090/62  
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FORMATION AND INFRARED CHARACTERIZATION OF BOROXINE  
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BY BAUER W H WIBERLEY S E LEE G H II DDC NUMBER 426516  
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WALES U COLL ABERYSTWYTH  
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BY KERR J A SEKHAR R C TROTHER/DICKENSON A F DDC NUMBER 426519  
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THE REACTION OF HYDROGEN ATOMS WITH LIQUID OZONE  
J PHYS CHEM 67 849/852 APR 1963  
BY WOJTCWICZ J A MARTINES F ZASLOWSKI J A DDC NUMBER 427637  
INSTRUMENT AF 29<600>01467  
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AFOSRJ1472  
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BY WOJTCWICZ J A URRACH M R ZASLOWSKI J A DDC NUMBER 427599  
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PROPERTIES OF ACCELERATED PLASMAS  
4TH SYMP ENG ASPECTS MAGNETOHYDRODYNAMICS APR 1963  
BY DAILEY C L INSTRUMENT AF 49<638>01210  
PROJ/TASK 9752 01

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CALLERY CHEMICAL CO PA  
HEAT OF REACTION OF NITROGEN TRIFLUORIDE WITH ELEMENTAL  
BORON  
J CHEM ENG DATA 8 NO 1 76/77 JAN 1963  
BY LUDWIG J R COOPER W J DDC NUMBER 426511  
INSTRUMENT AF 49<638>01052  
PROJ/TASK 9750 01

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ABSCISSAS AND HEIGHT COEFFICIENTS FOR LOBATO QUADRATURE  
MATH COMP 17 NO 83 237/244 JULY 1963  
BY MICHELS W H DDC NUMBER 427585  
INSTRUMENT AF 49<638>01133  
PROJ/TASK 9750 01

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COMB FLAME 7 NO 3 283/291 SEP 1963  
BY DINMOCK T H KINEYKO W R DDC NUMBER 426023  
INSTRUMENT AF 49<638>00305  
PROJ/TASK 9752 01

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AEROCHEM RESEARCH LABS INC PRINCETON N J  
THE APPARENT CHEMICAL KINETICS OF SURFACE REACTIONS IN  
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ACTIVATION ENERGY AND REACTION ORDER  
AMER INST CHEM ENGR J 9 NO 3 321/331 MAY 1963  
BY ROSNER D F DDC NUMBER 426558  
INSTRUMENT AF 49<638>01138  
PROJ/TASK 9750 02

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AEROCHEM RESEARCH LABS INC PRINCETON N J  
SCALE EFFECTS AND CORRELATIONS IN NONEQUILIBRIUM CONVECTIVE  
HEAT TRANSFER  
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BY ROSNER D F DDC NUMBER 427536  
INSTRUMENT AF 49<638>01138  
PROJ/TASK 9750 02

AFOSRJ1481  
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FUNDAMENTAL SOLUTION TO THE DIFFUSION BOUNDARY LAYER FOR  
SEPARATED FLOW OVER SOLID SURFACES AT VERY LARGE PRANDTL  
NUMBERS  
INTL J HEAT MASS TRANSFER 6 793/804 1963  
BY ROSNER D E DDC NUMBER 427537  
INSTRUMENT AF 49<638>01138  
PROJ/TASK 9750 02

AFOSRJ1482  
MARTIN MARIETTA CORP RIAS INC BALTIMORE MD  
APPEARANCE AND IONIZATION POTENTIALS OF SELECTED FRAGMENTS  
FROM ISOTOPICALLY LABELED PENTABORANES IN  
J AMER CHEM SOC 85 1369/1375 20 MAY 1963  
BY KAUFMAN J J KOSKI W S KUHNS L J WRIGHT S S DDC NUMBER 427538  
INSTRUMENT AF 49<638>01220  
PROJ/TASK 9750 01

AFOSRJ1483  
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RECENT DEVELOPMENTS IN GAS PYROMETRY BY SPECTROSCOPIC  
METHODS  
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BY TOURIN R H DDC NUMBER 427539  
INSTRUMENT AF 49<638>01132  
PROJ/TASK 9711 01

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FREE RADICALS AND MOLECULES. II. THEORETICAL INTERPRETATION  
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MOLECULAR SPECIES MONTREAL CANADA AUG 1961  
BY KAUFMAN J J DDC NUMBER 427535  
INSTRUMENT AF 49<638>01220  
PROJ/TASK 9750 01

AFOSRJ1486  
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THE THERMAL DECOMPOSITION OF METAL COMPLEXES / VI SOME  
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BY WENDLANDT W W SMITH J P DDC NUMBER 427943  
INSTRUMENT AF/AFOSR /0023/63  
PROJ/TASK 9762 03

AFOSRJ1487  
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CLUSTER INTEGRAL EXPANSIONS IN INHOMOGENEOUS FLUIDS  
J PHYS CHEM 67 1928/1930 SEP 1963  
BY SCHMIDT H H DDC NUMBER 427944  
INSTRUMENT AF 49<638>00284  
PROJ/TASK 9760 03

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PERTURBATION THEORY AND THE HELLMANN/FEYNMAN THEOREM  
J CHEM PHYS 39 NO 4 863/867 15 AUG 1963  
BY HEAD A C YARIS R DDC NUMBER 427945  
INSTRUMENT AF 49<638>00940  
PROJ/TASK 9760 01

AFOSRJ1490  
MINNESOTA U MINNEAPOLIS  
ABSORPTION OF LIGHT BY A RIGID CRYSTAL  
RADIATION RSCH 20 NO 1 101/106 SEP 1963  
BY MFAD C A DDC NUMBER 427946  
INSTRUMENT AF 49<638>00940  
PROJ/TASK 9760 01

AFOSRJ1494  
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MECHANISMS OF REACTIONS OF SULFINIC ACIDS. V. THE MECHANISM  
OF THE ALKYL SULFIDE/SULFINIC ACID REACTION  
J AMER CHEM SOC 85 3472/3478 5 NOV 1963  
BY KICE J L DDC NUMBER 429947  
INSTRUMENT AF/AFOSR /0106/63  
PROJ/TASK 9762 03

AFOSRJ1495  
YALE U NEW HAVEN CONN  
ABSORPTION SPECTRA OF GASEOUS HALIDE IONS AND HALOGEN  
ELECTRON AFFINITIES. CHLORINE, BROMINE, AND IODINE  
J CHEM PHYS 37 NO 10 2278/2290 15 NOV 1962  
BY BERRY R S DDC NUMBER 427950  
INSTRUMENT AF/AFOSR /0025/61  
PROJ/TASK 9760 02

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OXIDE FROM THIANTHRENE MONOXIDE IN CONCENTRATED SULFURIC  
ACID  
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BY SHINE H J DDC NUMBER 427949  
ROBINSON T A INSTRUMENT AF/AFOSR /0023/63  
PROJ/TASK 9762 03

AFOSRJ1497  
SOUTHAMPTON U ENGLAND  
HALIDE AND OXYHALIDE COMPLEXES OF MOLYBDENUM AND TUNGSTEN  
J CHEM SOC 4649/4657 OCT 1963  
BY ALLEN F A DDC NUMBER 427951  
BRIDSON R J INSTRUMENT AF/EOAR /0048/62  
EDWARDS D A PROJ/TASK 9710 02

AFOSRJ1498  
PENNSYLVANIA STATE U UNIVERSITY PARK  
THE MECHANISM OF ALIPHATIC BROMINATION BY N-BROMOSUCCINIMIDE  
J AMER CHEM SOC 85 2850/2851 20 SEP 1963  
BY SKELL P S DDC NUMBER 427985  
TULEEN D L INSTRUMENT AF/AFOSR /0052/62  
READIO P D PROJ/TASK 9760 02

AFOSRJ1499  
PITTSBURGH U PA  
THE PHOTOINITIATED OXIDATION OF TERTIARY PHOSPHITES  
J ORG CHEM 28 2908/2910 OCT 1963  
BY PLUMR J R DDC NUMBER 428393  
GRIFFIN C F INSTRUMENT AF/AFOSR /0048/62  
PROJ/TASK 9762 01

AFOSRJ1500  
PITTSBURGH U PA  
INFRARED ABSORPTION CHARACTERISTICS OF ALKYL AND ARYL  
SUBSTITUTED PHOSPHONIUM SALTS  
SPECTROCHIM ACTA 19 1905/1910 1963  
BY WITSCHARD G DDC NUMBER 427954  
GRIFFIN C E INSTRUMENT AF/AFOSR /0048/62  
PROJ/TASK 9762 01

AFOSRJ1501  
PENNSYLVANIA STATE U UNIVERSITY PARK  
STEREOCHEMICAL EVIDENCE OF BRIDGED RADICALS  
J AMER CHEM SOC 85 2849/2850 1963  
BY SKELL P S DDC NUMBER 427986  
TULEEN D L INSTRUMENT AF/AFOSR /0052/62  
READIO P D PROJ/TASK 9760 02

AFOSRJ1502  
NORTHWESTERN U EVANSTON ILL  
THE REACTION BETWEEN DEUTERIUM AND DIALLYLACETYLENES ON  
PALLADIUM CATALYSTS  
J AMER CHEM SOC 85 2877/2887 1963  
BY MEYER E F DDC NUMBER 429257  
BURWELL JR R L INSTRUMENT AF/AFOSR /0097/63  
PROJ/TASK 9760 03

AFOSRJ1503  
MISSISSIPPI U UNIVERSITY  
A COMPUTER METHOD FOR DETERMINING SPECTROSCOPIC AND  
THERMODYNAMIC CONSTANTS FOR SYSTEMS WITH TWO EQUILIBRIUM  
REACTIONS  
J MISS ACAD SCI 9 168/175 1963  
BY DE MAINE P A D DDC NUMBER 427987  
INSTRUMENT AF/AFOSR /0019/62  
PROJ/TASK 9710 03

AFOSRJ1504  
COLORADO U BOULDER  
THE ELECTRIC MOMENTS OF TWO DIBENZOBICYCLOOCTADIENES AND  
DERIVATIVES  
J AMER CHEM SOC 85 2892/2896 5 OCT 1963  
BY TANNER D D DDC NUMBER 427981  
GILMAN T INSTRUMENT AF/AFOSR /0079/62  
PROJ/TASK 9762 02

AFOSRJ1505  
CALIFORNIA INST OF TECH PASADENA  
REFRACTIVE INDEX OF SOLID ARGON  
PHYSICA 29 555/558 1963  
BY PINGS C J DDC NUMBER 429259  
SMITH R L INSTRUMENT AF/AFOSR /0141/62  
PROJ/TASK 9760 01

AFOSRJ1506  
KANSAS U LAWRENCE  
THE DIELCTROGRAPHIC BEHAVIOR OF NICKEL 6116 IN ACETONITRILE I  
THE DEFERENCE OF CHLORINE ION  
J ELECTROANAL CHEM 6 274/2741 1963  
BY IWAMOTO R T DDC NUMBER 429258  
NELSON I W INSTRUMENT AF/AFOSR /0220/63  
PROJ/TASK 9710 03

AFOSRJ1507  
GENERAL ELECTRIC CO SCHENECTADY N Y  
PROMOTED FIELD DESORPTION AND THE VISIBILITY OF ADSORBED  
ATOMS IN THE ION MICROSCOPE  
PHIL MAG 8 NO 93 1587/1591 SEP 1963  
BY EHRlich G  
HUDDA F G INSTRUMENT AF 49<638>00791  
PROJ/TASK 9760 03

AFOSRJ1508  
MCGILL U MONTREAL P Q CANADA  
NUCLEAR CHARGE DISPERSION IN THE HIGH/ENERGY FISSION OF  
URANIUM  
CANADIAN J PHYS 41 762/783 1963  
BY DAVIES J H DDC NUMBER 428265  
YAFFE L INSTRUMENT AF/AFOSR /0024/62  
PROJ/TASK 9760 01

AFOSRJ1509  
MCGILL U MONTREAL P Q CANADA  
THE RATIO OF THE INDEPENDENT FORMATION CROSS SECTIONS OF THE  
ISOMERIC STATES OF CS134 IN THE PROTON/INDUCED FISSION OF  
URANIUM  
CANADIAN J CHEM 41 1836/1837 1963  
BY DAVIES J H DDC NUMBER 429256  
YAFFE L INSTRUMENT AF/AFOSR /0024/62  
PROJ/TASK 9760 01

AFOSRJ1510  
MILAN U ITALY  
HYDRIDES OF ITRIDIUM TRIPHENYLPHOSPHINE 6ITALIANG  
GAZZ CHIM ITAL 92 811/817 1962  
BY MALATESTA L  
ANGOLFETTA M INSTRUMENT AF/EOAR /0034/62  
PROJ/TASK 9710 02

AFOSRJ1511  
MARTIN MARIETTA CORP RIAS INC BALTIMORE MD  
SYMMETRY ADAPTED FUNCTIONS BELONGING TO THE CRYSTALLOGRAPHY  
GROUPS  
J MOLE SPECTRO 10 NO 1 51/74 JAN 1963  
BY MCINTOSH H V DDC NUMBER 429254  
INSTRUMENT AF 49<638>00382  
PROJ/TASK 9749 01

AFOSRJ1515  
NEW YORK U NEW YORK  
SYSTEMS OF ORDINARY DIFFERENTIAL EQUATIONS. SPECIAL  
FUNCTIONS AND EXISTENCE THEOREMS. FINAL REPORT. OCT. 1963  
BY KLINE M DDC NUMBER 429255  
INSTRUMENT AF/AFOSR /0108/62  
PROJ/TASK 9749 02

AFOSRJ1517  
NORTH CAROLINA STATE COLL RALEIGH  
A NOTE ON THE DISTRIBUTION OF STRESS IN A CYLINDER  
CONTAINING A PENNY/SHAPED CRACK  
INTL J ENGR SCI 1 411/419 1963  
BY SNEEDON I N DDC NUMBER 429253  
WELCH J T INSTRUMENT AF 49<638>01159  
PROJ/TASK 9769

AFOSRJ1518  
NORTH CAROLINA STATE COLL RALEIGH  
THE EFFECT OF A PENNY/SHAPED CRACK ON THE DISTRIBUTION OF  
STRESS IN A LONG CIRCULAR CYLINDER  
INTL J ENGR SCI 1 391/409 1963  
BY SNEEDON I N DDC NUMBER 427982  
TAIT R J INSTRUMENT AF 49<638>01159  
PROJ/TASK 9769

AFOSRJ1519  
GRUMMAN AIRCRAFT ENGINEERING CORP BETHPAGE N Y  
SINGULAR EXTREMALS IN LAWDENS PROBLEM OF OPTIMAL ROCKET  
FLIGHT  
AMER INST AERO ASTRO J 1 NO 7 1578/1580 JULY 1963  
BY KELLEY H J DDC NUMBER 427942  
INSTRUMENT AF 29<600>02671  
PROJ/TASK 9749 01

AFOSRJ1520  
GEORGIA U ATHENS  
A THERMODYNAMIC STABILITY SCALE FOR STABLE, ISOLABLE FREE  
RADICALS. FINAL REPORT. NOV. 1963  
BY LAMB R C DDC NUMBER 429279  
INSTRUMENT AF/AFOSR /0053/62  
PROJ/TASK 9762 01

AFOSRJ1521  
CARNegie INST OF TECH PITTSBURGH PA  
A SEARCH FOR HOT RADICAL REACTIONS IN FLASH PHOTOLYSIS.  
FINAL REPORT  
BY MAINS G J DDC NUMBER 429260  
INSTRUMENT AF/AFOSR /0051/62  
PROJ/TASK 9760 02

AFOSRJ1522  
POLYTECHNIC INST OF BROOKLYN FREEPORT N Y  
ON SENSITIVITY IN OPTIMAL CONTROL SYSTEMS  
IEEE TRANS AUTO CONTROL AC/8 NO 3 JULY 1963  
BY DORATO P DDC NUMBER 427952  
INSTRUMENT AF/AFOSR /0280/62  
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 AFOSR1050

**CANONICAL INST OF TECH PITTSBURGH PA**  
 ARL 03 106  
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 AFOSR 2543  
 AFOSR 2576  
 AFOSR 15  
 AFOSR1021

**CASE INST OF TECH CLEVELAND OHIO**  
 AFOSR 02 0910  
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 AFOSR 562  
 AFOSR1021

**CATHOLIC U OF AMERICA WASHINGTON D C**  
 AFOSR 03 823  
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 AFOSR 91  
 AFOSR 92  
 AFOSR 93  
 AFOSR 317  
 AFOSR 556  
 AFOSR 620  
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 AFOSR1610

**CATHOLIC U OF LEUVAIN BELGIUM**  
 ARL 03 112  
 AFOSR 640  
 AFOSR1014

**CATHOLIC U OF RIO DE JANEIRO BRAZIL**  
 AFOSR1190  
 AFOSR1199

**CENTRALE METEOROLOGICA SVIZZERA LOCARNO-MONTE SWITZERLAND**  
 AFOSR 03 760

**CENTRE NATIONAL D-ETUDES DE LA RECHERCHE SCIENTIFIQUE PARIS FRANCE**  
 AFOSR1051  
 AFOSR1052

**CENTRE NATIONAL D-ETUDES DE LA RECHERCHE SCIENTIFIQUE LYON FRANCE**  
 AFOSR 314  
 AFOSR 315  
 AFOSR 945  
 AFOSR 946

**CENTRE NATIONAL D-ETUDES DE PHYSIOLOGIE NERVEUSE ET D-ELECTROPHYSIOLOGIE PARIS FRANCE**  
 AFOSR 9256  
 AFOSR 636  
 AFOSR 637  
 AFOSR 638

**CENTRO DI STUDIO PER LA FISICA MICROSCOPICA  
 FLORENCE ITALY**

**CENTRO RADIOELETTRICO SPERIMENTALE ROME ITALY**  
**CHALMERS INST OF TECH GOTHENBURG SWEDEN**

**CHICAGO U ILL**

**CHILE U SANTIAGO**

**CHU ASSOC LITTLETON MASS**

**CINCINNATI U OHIO**

**CLARKSON COLL OF TECH POTSDAM N Y**

**COLD SPRING HARBOR LAB OF QUANTITATIVE BIOLOGY N Y**

**COLLINS RADIO CO ALPHA CORP RICHARDSON TEX**

**COLOGNE U WEST GERMANY**

**COLORADO STATE U RESEARCH FOUNDATION FORT COLLINS**

**COLORADO U BOULDER**

AFOSR 0399  
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 AFOSR11672

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AFOSR 03 307

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 AFOSR 03 424  
 AFOSR 03 425  
 AFOSR 03 426

COLUMBIA BROADCASTING SYSTEM STAMFORD CONN  
COLUMBIA U NEW YORK N Y

APCRL 63 420  
APCRL 63 611  
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APCRL 63 701  
ARL 63 261  
AFOSR 2169  
AFOSR 4576  
AFOSR J 267  
AFOSR J 293  
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AFOSR J1450  
AFOSR J1509

COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH  
ORGANIZATION CHIPPENDALE AUSTRALIA

COMMUNICATION RESEARCH INST MIAMI FLA

COMPAGNIE GENERALE DE TELEGRAPHIE SANS FIL PARIS FRANCE

CONSTOCK AND WESCOTT INC CAMBRIDGE MASS

COMPUTER ASSOC INC WOBURN MASS

CONNECTICUT U STORRS

COPENHAGEN U DENMARK

AFOSR J 870  
AFOSR J 206  
AFOSR J 207  
AFOSR J 609  
AFOSR J 610

APCRL 63 336  
APCRL 63 337  
APCRL 63 700  
APCRL 62 0953  
AFOSR J 861  
ARL 63 046  
ARL 63 211

CORN U COLL IRELAND

CORNELL AERONAUTICAL LAB INC BUFFALO N Y

CORNELL U ITHACA N Y

CURTISS WRIGHT CORP WOOD-RIDGE N J

CRAWFIELD COLL OF AERONAUTICS BLETCHLEY DUCKS ENGLAND

CUTLER-MANNING INC DEER PARK N Y

DARTMOUTH COLL HANOVER N H

DAYTON U OHIO

DELAWARE U NEWARK

DENMARK TECHNICAL U COPENHAGEN

DEVPT U COLO

DENVER U RESEARCH INST COLO

DOCUMENTATION INC BETHESDA MD

DOUCETTE E I ASSOC INC CHATHAM N J

DUKE U DURHAM N C

DURHAM U ENGLAND

DURHAM U KINGS COLL NEWCASTLE UPON TYNE ENGLAND

EASTERN NAZARENE COLL WOLLASTON MASS

EDINBURGH U SCOTLAND

EITEL-MCCULLOUGH INC SAN CARLOS CALIF

ELECTRO-OPTICAL SYSTEMS INC PASADENA CALIF

ELECTRONIC ASSOC INC PRINCETON N J

AFOSR 5165  
AFOSR J1200

APCRL 63 221  
APCRL 63 339  
ARL 63 067  
AFOSR 4706  
AFOSR J1047

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ARL 63 106  
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AFOSR J1351

ARL 63 167  
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AFOSR J 97  
AFOSR J 425

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APCRL 63 400  
APCRL 63 602  
ARL 63 015

APCRL 63 166

AFOSR J 244

APCRL 62 0760  
APCRL 62 0923  
APCRL 63 035

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AFOSR J1301  
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APCRL 63 236  
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APCRL 63 645

AFOSR J 807  
AFOSR J 808

AFOSR J1324

AFOSR J 175

AFOSR J 941

APCRL 62 0904

ARL 63 133

ARL 63 167

AFOSR 3105

APCRL 63 110

APCRL 63 111

ELECTRONIC COMMUNICATIONS INC TIMOTHY MD	APCL 63 938	GENERAL PRECISION INC LIBRARYSCOPE DIV GLENDALE CALIF	AFOSR 6952
EMERSON-CUMMINGS INC CANTON MASS	APCL 62 0776	GENERAL TELEPHONE AND ELECTRONICS LABS INC BAYSIDE N Y	APCL 63 06 APCL 63 17 APCL 63 39 APCL 63 37
EPLEY LAB INC NEWPORT N I	APCL 63 0074	GENERAL TELEPHONE AND ELECTRONICS LABS INC PALO ALTO CALIF	APCL 63 10
ERLANGER U WEST GERMANY	AFOSR 4971	GERBA U ITALY	AFOSR J 196 AFOSR J 197 AFOSR J 262 AFOSR J 263 AFOSR J 301 AFOSR J 303 AFOSR J1170 AFOSR J1927 AFOSR J1621
F AND M SCIENTIFIC CORP AVERDALE PA	APCL 62 0731	GENEVA U SWITZERLAND	ARL 63 193
FAIRCHILD U CORP	APCL 63 049	GEO-SCIENCE INC CAMBRIDGE MASS	APCL 63 376 APCL 63 303
FEDERATION OF AMERICAN SOCIETIES FOR EXPERIMENTAL BIOLOGY WASHINGTON D C	AFOSR 9113	GEO-SCIENCE INC LEXINGTON MASS	APCL 62 099
FLORIDA STATE U TALLAHASSEE	APCL 63 429 APCL 63 476 APCL 63 689 AFOSR 9179 AFOSR J 360 AFOSR J 361 AFOSR J 362 AFOSR J 363 AFOSR J 364 AFOSR J1045 AFOSR J1099 AFOSR J1376	GEO-PHYSICS CORP OF AMERICA BEDFORD MASS	APCL 62 100 APCL 62 114 APCL 63 219 APCL 63 297 APCL 63 298
FLORIDA U GAINESVILLE	APCL 63 127 AFOSR 9319	GEORGETOWN U WASHINGTON D C	APCL 62 088 APCL 62 101 AFOSR 5200 AFOSR J 16 AFOSR J 80 AFOSR J1303 AFOSR J1304 AFOSR J1907
FLUORINE ENGINEERING CORP MINNEAPOLIS MINN	ARL 63 001	GEORGIA INST OF TECH ATLANTA	APCL 63 252 APCL 63 466 APCL 63 488 AFOSR J 88 AFOSR J 89
FORD MOTOR CO AERONAUTICS DIV MELBURY BEACH CALIF	APCL 7 0092	GEORGIA U ATHENS	AFOSR 5206 AFOSR J1520
FORDHAM U NEW YORK N Y	AFOSR J1160 AFOSR J1049	GERMAN WEATHER SERVICE OFFENBACH WEST GERMANY	APCL 63 802
FRANKFURT U WEST GERMANY	APCL 63 464	GHANA U COLL LEGON	APCL 63 197
FRANKLIN INST PHILADELPHIA PA	ARL 63 114 AFOSR 4431 AFOSR 4434 AFOSR 4999 AFOSR J 390	GIANNINI SCIENTIFIC CORP SANTA ANA CALIF	APCL 63 302
FRANKLIN INST BARTOL RESEARCH FOUNDATION SWARTHMORE PA	AFOSR J1294 AFOSR J1447	GOETTINGEN U WEST GERMANY	ARL 63 157 AFOSR J1916
FULMER RESEARCH INST STONE PAGES ENGLAND	AFOSR J1463	GOTEBORG U SWEDEN	AFOSR 2007 AFOSR 4845 AFOSR 4851 AFOSR 5298 AFOSR J 209 AFOSR J 467 AFOSR J 468 AFOSR J 471 AFOSR J 494 AFOSR J 543
GALVNY U COLL IRELAND	AFOSR J 702 AFOSR J 090 AFOSR J1171	GRUNMAN AIRCRAFT ENGINEERING CORP BETHPAGE N Y	AFOSR 4907 AFOSR J 350 AFOSR J1919
GENERAL DYNAMICS CORP AERONAUTICS SAN DIEGO CALIF	APCL 62 0094 APCL 62 1140 APCL 62 1145 APCL 63 263 APCL 63 268	HARVARD U CAMBRIDGE MASS	APCL 62 0940 APCL 62 0995 APCL 62 0823 APCL 62 0994 APCL 62 1030 APCL 62 1039 APCL 62 1040 APCL 62 1054 APCL 62 1057 APCL 62 1058 APCL 62 1059 APCL 62 1062 APCL 62 1066 APCL 62 1117 APCL 63 090 APCL 63 196 APCL 63 107 APCL 63 108 APCL 63 134 APCL 63 200 APCL 63 205 APCL 63 220 APCL 63 240 APCL 63 344 APCL 63 360 APCL 63 411 APCL 63 412 APCL 63 455 APCL 63 458 APCL 63 468 APCL 63 487 APCL 63 612 APCL 63 638 APCL 63 656 APCL 63 674 APCL 63 686 APCL 63 819 APCL 63 829
GENERAL APPLIED SCIENCES LAB HEMPSTEAD N Y	AFOSR 5322		
GENERAL DYNAMICS CORP GENERAL ATOMICS DIV SAN DIEGO CALIF	AFOSR J1044 AFOSR J1362		
GENERAL ELECTRIC CO ITHACA N Y	APCL 62 0900		
GENERAL ELECTRIC CO KING OF PRUSSIA PA	APCL 63 840		
GENERAL ELECTRIC CO PHILADELPHIA PA	ARL 63 163 AFOSR J 100 AFOSR J 730 AFOSR J 763 AFOSR J1076 AFOSR J1042 AFOSR J1048 AFOSR J1230 AFOSR J1290		
GENERAL ELECTRIC CO SANTA BARBARA CALIF	APCL 63 094 APCL 63 310		
GENERAL ELECTRIC CO SCHENECTADY N Y	APCL 62 0900 APCL 63 011 APCL 63 0204 APCL 63 0700 APCL 63 069 APCL 63 1204 APCL 63 323 APCL 63 450 APCL 63 451 APCL 63 452 APCL 63 453 APCL 63 562A APCL 63 562B ARL 63 099 AFOSR J 344 AFOSR J 607 AFOSR J1507		
GENERAL ELECTRIC CO SYRACUSE N Y	APCL 63 1200		
GENERAL GEOPHYSICAL CO HOUSTON TEX	APCL 63 479		
GENERAL MILLS INC MINNEAPOLIS MINN	AFOSR 4474		
GENERAL MILLS INC ST PAUL MINN	APCL 63 487 ARL 63 139		
GENERAL MOTORS CORP ALLISON DIV INDIANAPOLIS IND	AFOSR 5070		

	APCRL 63 879		AFOSR 603
	AFOSR 7797		AFOSR 763
	AFOSR 7799		AFOSR 768
	AFOSR 8316		AFOSR 867
	AFOSR 8871		AFOSR 867
	AFOSR 8983		AFOSR 868
	AFOSR 8983		AFOSR 869
	AFOSR 8979		AFOSR 871
	AFOSR J 27		AFOSR 878
	AFOSR J 66		AFOSR J1094
	AFOSR J 213		AFOSR J1101
	AFOSR J 216		AFOSR J1109
	AFOSR J 219		AFOSR J1132
	AFOSR J 224		AFOSR J1133
	AFOSR J 229		AFOSR J1942
	AFOSR J 240		AFOSR J1993
	AFOSR J 278	INDIANA U RESEARCH FOUNDATION BLOOMINGTON	AFOSR J1616
	AFOSR J 356		AFOSR J1617
	AFOSR J 399	INNSBRUCK U AUSTRIA	AFOSR J1617
	AFOSR J 534		AFOSR J1617
	AFOSR J 549	INST B-OPTIQUE PARIS FRANCE	AFOSR J1617
	AFOSR J 599		AFOSR J1617
	AFOSR J 679	INST DE INVESTIGATION DE CIENCIAS BIOLOGICAS MONTEVIDEO URUGUAY	AFOSR J1617
	AFOSR J 691		AFOSR J1617
	AFOSR J 705		AFOSR J1617
	AFOSR J 917		AFOSR J1617
	AFOSR J 999		AFOSR J1617
	AFOSR J1209		AFOSR J1617
	AFOSR J1434		AFOSR J1617
	AFOSR J1600		AFOSR J1617
	AFOSR J1612		AFOSR J1617
	AFOSR J1613		AFOSR J1617
	AFOSR J1614		AFOSR J1617
	AFOSR J1615		AFOSR J1617
MARSHMAN CHEMICAL CO CLEVELAND OHIO	AML 63 171		
HAWAII U HONOLULU	AFOSR 62 0090	INST DE MATEMATICA PURA E APLICADA RIO DE JANEIRO BRAZIL	AFOSR J 64
	AFOSR 63 235		AFOSR 6956
	AFOSR 63 479	INST DE NEUROLOGIA MONTEVIDEO URUGUAY	AFOSR J 397
	AFOSR 63 493		AFOSR J 398
	AFOSR 63 494		AFOSR J 399
	AFOSR 63 803		AFOSR J 399
	AFOSR 63 813		AFOSR J 399
HEBREW U JERUSALEM ISRAEL	AFOSR 63 227	INST FOR ADVANCED STUDY PRINCETON N J	AFOSR 5226
	AML 63 218		AFOSR J 23
	AFOSR 6466		AFOSR J 129
	AFOSR 6850		AFOSR J 399
	AFOSR J 152		AFOSR J 602
	AFOSR J 256		AFOSR J1268
	AFOSR J 265		
	AFOSR J 303	INST FOR SCIENTIFIC INFORMATION PHILADELPHIA PA	AFOSR J 165
	AFOSR J 324		AFOSR J 702
	AFOSR J 325		
	AFOSR J 326	INST NACIONAL DE TECNICA AERONAUTICA MADRID SPAIN	AFOSR 5217
	AFOSR J1104		AFOSR 5218
	AFOSR J1978		
HERMANN FOETTINGER INST WEST BERLIN WEST GERMANY	AFOSR 5325	INSTRUMENT CORP OF FLORIDA MELBOURNE	AFOSR 63 481
HERNE AND CO WASHINGTON D C	AFOSR 5038	INTERMOUNTAIN WEATHER INC SALT LAKE CITY UTAH	AFOSR 63 845
	AFOSR J 362		AFOSR J1937
	AFOSR J1939	INTERNATIONAL BUSINESS MACHINES CORP NEW YORK N Y	AFOSR J1937
HIGH ALTITUDE INSTRUMENT CO GOLDEN COLO	AFOSR 63 617	INTERNATIONAL BUSINESS MACHINES CORP YORKTOWN HEIGHTS N Y	AFOSR 62 0997
HP ASSOC PALO ALTO CALIF	AFOSR 62 0997		AFOSR 62 0994
	AFOSR 63 113		AFOSR 63 263
	AFOSR 63 336	INTERNATIONAL TELEPHONE AND TELEGRAPH CORP BUTLEY N J	AFOSR J1709
HUGHES AIRCRAFT CO CULVER CITY CALIF	AFOSR 62 0975		AFOSR 63 177
	AFOSR 62 0976	INTERNATIONAL RESEARCH INST PRINCETON N J	AFOSR 63 309
	AFOSR 63 130		
	AFOSR 63 340	IOWA STATE U IOWA CITY	AFOSR 5227
HULL U ENGLAND	AFOSR 4388		AFOSR J1271
	AFOSR J 167	IOWA STATE U OF SCIENCE AND TECH AMES	AML 63 818
	AFOSR J 514		AML 63 104
	AFOSR J 522		AFOSR J1154
HYLETRONICS CORP BURLINGTON MASS	AFOSR 63 378	ISRAEL INST OF TECH HAIFA	AFOSR 63 050
ILLINOIS INST OF TECH CHICAGO	AML 63 102		AFOSR 63 081
	AFOSR J1127		AML 63 089
ILLINOIS INST OF TECH RESEARCH INST CHICAGO	AFOSR 63 092		AML 63 099
	AML 63 104		AML 63 122
	AML 63 269		AML 63 169
ILLINOIS U URBANA	AFOSR 62 1071	ISTITUTO ELECTROTECNICO NAZIONALE TURIN ITALY	AFOSR 63 177
	AFOSR 63 123		AFOSR 63 184
	AFOSR 63 737		AFOSR 63 234
	AFOSR 2059		AFOSR 6760
	AFOSR 6463		AFOSR 6764
	AFOSR 6466		AFOSR 6865
	AFOSR 6776		AFOSR J 29
	AFOSR 6812		AFOSR J 33
	AFOSR 6197		AFOSR J 34
	AFOSR J 16		AFOSR J 367
	AFOSR J 72	ISTITUTO NAZIONALE DI OTTICA FLORENCE ITALY	AFOSR J1140
	AFOSR J 73		AFOSR J 203
	AFOSR J 74		AFOSR J 204
	AFOSR J 76		AFOSR J 233
	AFOSR J 77		AFOSR J 234
	AFOSR J 78		AFOSR J 235
	AFOSR J 79		AFOSR J 236
	AFOSR J 207		AFOSR J 463
	AFOSR J 371		AFOSR J 641
	AFOSR J 460		AFOSR J 642
	AFOSR J 507		AFOSR J1319
	AFOSR J 580	JOHNS HOPKINS U BALTIMORE MD	AFOSR 62 0999
	AFOSR J 597		AFOSR 63 269





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MAX-PLANCK-INST FUR AERONAUTIK LINDAU WEST GERMANY

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MCBELL U MONTREAL P Q CANADA

MCMASTER U HAMILTON ONTARIO CANADA

MELLON INST OF INDUSTRIAL RESEARCH PITTSBURGH PA

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AFOSR J400

WELFARE INC FALLS CHURCH VA

APCRL 62 0911  
APCRL 62 0908  
APCRL 62 0904  
AFOSR/J1179

WERNER U CORAL GABLES FLA

AFOSR/J 999  
AFOSR/J1000

WICHITA U AND ARBOR

APCRL 62 0842  
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WISCONSIN STATE U EAST LANSING

AFOSR/J 136  
AFOSR/J 164  
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AFOSR/J1000

WISCONSIN RESEARCH INST KANSAS CITY MO

APCRL 62 087  
ARL 62 093

WISCONSIN U ITALY

AFOSR/J1161  
AFOSR/J1010

WISCONSIN-MENOMONIE REGULATOR CO WISCONSIN

AFOSR 5413

WISCONSIN U MINNEAPOLIS

APCRL 62 0905  
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ARL 62 231  
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AFOSR/J1500

MISSISSIPPI U UNIVERSITY

AFOSR 4632  
AFOSR/J 202  
AFOSR/J 400  
AFOSR/J1503

MISSOURI U COLUMBIA

AFOSR 4625  
AFOSR/J 749

MOLECULAR RESEARCH CORP CAMBRIDGE MASS

APCRL 62 044

MONTANA STATE COLL BOZEMAN

APCRL 62 0720  
APCRL 62 064

MONTREAL U P Q CANADA

AFOSR/J 711

MOTOROLA INC PHOENIX ARIZ

APCRL 62 0741  
APCRL 62 021

MUNICH U WEST GERMANY

APCRL 62 033  
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APCRL 62 060  
APCRL 62 056

NAPLES U ITALY

APCRL 62 600  
APCRL 62 726  
AFOSR 9103

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AFOSR 9133  
AFOSR 9263  
AFOSR/J1199  
AFOSR/J1279

NATIONAL BUREAU OF STANDARDS BOULDER COLO

APCRL 62 0901  
APCRL 62 1364  
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NEW MEXICO U ALBUQUERQUE

AFOSR 6777  
AFOSR 9101  
AFOSR/J1221  
AFOSR/J1222

NEW HAMPSHIRE U DURHAM

APCRL 62 013  
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AFOSR/J1219

NEW MEXICO INST OF MINING AND TECH SOCORRO

APCRL 62 0799  
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NEW SOUTH WALES U AUSTRALIA

AFOSR/J1299

NEW YORK STATE PSYCHIATRIC INST NEW YORK

AFOSR/J 266  
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AFOSR/J 268  
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AFOSR/J 290

NEW YORK STATE U STONY BROOK

AFOSR 2604

NEW YORK U NEW YORK

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NOBEL INST OF PHYSICS STOCKHOLM SWEDEN

ARL 62 233  
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NORTH AMERICAN AVIATION INC ROCKETBYNE DIV CANADA PARE CALIF

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ARL 62 107

NORTH AMERICAN AVIATION INC DOWNEY CALIF

AFOSR/J1036

NORTH AMERICAN AVIATION INC LOS ANGELES CALIF

APCRL 62 0900

AFOSR J 67  
AFOSR J 176

NORTH CAROLINA STATE COLL RALEIGH

ABL 63 149  
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AFOSR J 424  
AFOSR J1917  
AFOSR J1918

OLIN MATHESON CHEMICAL CORP NEW HAVEN CONN

AFOSR J1471  
AFOSR J1472  
AFOSR J1473

NORTH CAROLINA U CHAPEL HILL

AFOSR 4476  
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OPTICS TECH INC DELBERT CALIF

AFOSR J1310

OREGON STATE U CORVALLIS

AFOSR 2403  
AFOSR J 437  
AFOSR J1004

OREGON U EUGENE

AFOSR 5230  
AFOSR J 342  
AFOSR J1151  
AFOSR J1263  
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OSLO U NORWAY

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ABL 63 800  
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ABL 63 852  
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AFOSR 4704

NORTHEASTERN U BOSTON MASS

APCRL 62 0907  
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APCRL 63 204  
APCRL 63 313  
APCRL 63 814  
APCRL 63 921

OSSERVATORIO ASTRONOMICCO DI ARCETRI FLORENCE ITALY

APCRL 63 446

NORTHROP CORP MANTHORE CALIF

ABL 63 117  
AFOSR J 799  
AFOSR J 767

OXFORD U ENGLAND

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NORTH STAFFORDSHIRE U COLL KEELE ENGLAND

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NORTHWESTERN U EVANSTON ILL

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NORWEGIAN DEFENSE RESEARCH ESTABLISHMENT KJELLER NORWAY

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APCRL 63 748  
APCRL 63 808

NORWEGIAN METEOROLOGICAL INST OSLO NORWAY

APCRL 63 803

NUCLEAR CORP OF AMERICA PHOENIX ARIZ

APCRL 63 036

OBSERVATOIRE DE PARIS MEUDON FRANCE

APCRL 63 299  
APCRL 63 864

PARIS U FRANCE

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ABL 63 010B  
ABL 63 115  
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APCRL 62 1123

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APCRL 63 448  
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PARKS MATHEMATICAL LABS INC CARLISLE MASS

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ABL 63 003

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APCRL 63 683  
AFOSR 4715



PUERTO RICO U MAYAGUEZ	APCLR 63 251 AFOSR 8015 AFOSR 975		AFOSR 446 AFOSR 447 AFOSR 448 AFOSR 449 AFOSR 627 AFOSR 628
PURDUE RESEARCH FOUNDATION LAFAYETTE IND	APCLR 63 310 AFOSR 2729 AFOSR 4846 AFOSR 5144 AFOSR 17 AFOSR 174 AFOSR 606 AFOSR 831 AFOSR 845 AFOSR 1095 AFOSR 1105 AFOSR 1106 AFOSR 1249 AFOSR 1250 AFOSR 1251 AFOSR 1252 AFOSR 1253 AFOSR 1254 AFOSR 1497 AFOSR 1611	ROCHESTER U N Y	AFOSR 2180 AFOSR 4459 AFOSR 4461 AFOSR 5093 AFOSR 5285 AFOSR 40 AFOSR 41 AFOSR 119 AFOSR 131 AFOSR 133 AFOSR 156 AFOSR 163 AFOSR 270 AFOSR 320 AFOSR 508 AFOSR 509 AFOSR 501 AFOSR 604 AFOSR 640 AFOSR 647 AFOSR 668 AFOSR 684 AFOSR 685 AFOSR 696 AFOSR 879 AFOSR 884 AFOSR 888 AFOSR 903 AFOSR 1095 AFOSR 1299 AFOSR 1201 AFOSR 1293 AFOSR 1387 AFOSR 1399 AFOSR 1540 AFOSR 1561 AFOSR 1576
PURDUE U LAFAYETTE IND	AFOSR 9261 AFOSR 7 AFOSR 8 AFOSR 9 AFOSR 561 AFOSR 693 AFOSR 1004		
QUEENS U BELFAST NORTHERN IRELAND	APCLR 62 1130 APCLR 63 239 APCLR 63 699 ARL 63 012 ARL 63 066 ARL 63 136 ARL 63 137 ARL 63 159		
RADIATION ENGINEERING LAB MAYNARD MASS	APCLR 62 0099	ROCKFORD RESEARCH INST CAMBRIDGE MASS	AFOSR 167
RADIATION SYSTEMS INC ALEXANDRIA VA	APCLR 63 136	ROME U ITALY	APCLR 63 079 AFOSR 4004 AFOSR 817 AFOSR 838
RADIO CORP OF AMERICA DUBLINGTON MASS	APCLR 62 0700 APCLR 63 042		
RADIO CORP OF AMERICA SARNOFF RESEARCH CENTER PRINCETON N J	APCLR 62 0918 APCLR 62 0927 APCLR 62 0944 APCLR 62 0965 APCLR 63 006 APCLR 63 012 APCLR 63 062 APCLR 63 067 APCLR 63 149 APCLR 63 170 APCLR 63 189 APCLR 63 300 APCLR 63 331 APCLR 63 373 APCLR 63 389	ROBSON METALS CORP NEWARK N J	AFCLR 63 007
RAYTHEON CO NORWOOD MASS	APCLR 62 0936 APCLR 62 0942 APCLR 62 0943 APCLR 62 0947 APCLR 62 0951 APCLR 63 040 APCLR 63 158 APCLR 63 626	ROYAL COLL OF SCIENCE AND TECH GLASGOW SCOTLAND	AFOSR 4773 AFOSR 513 AFOSR 927
RAYTHEON CO WALTHAM MASS	APCLR 62 0926 APCLR 62 0935 APCLR 63 096 APCLR 63 162	ROYAL INST OF TECH STOCKHOLM SWEDEN	APCLR 62 0709 APCLR 62 0709 APCLR 62 0709 APCLR 62 0791 APCLR 63 174 APCLR 63 179 APCLR 63 306 APCLR 63 322 APCLR 63 454 APCLR 63 503 APCLR 63 504 AFOSR 1815 AFOSR 751 AFOSR 752 AFOSR 753 AFOSR 754 AFOSR 780
RAYTHEON CO WAYLAND MASS	APCLR 63 099 APCLR 63 197A APCLR 63 199B	ROYAL SWEDISH ACADEMY OF SCIENCES STOCKHOLM SWEDEN	APCLR 63 097
RCA VICTOR CO LTD MONTREAL P O CANADA	APCLR 63 161	RUTGERS STATE U NEW BRUNSWICK N J	AFOSR 189 AFOSR 403 AFOSR 547 AFOSR 769 AFOSR 827 AFOSR 828 AFOSR 885 AFOSR 914 AFOSR 1168
RENSSELAER POLYTECHNIC INST TROY N Y	APCLR 62 0511 APCLR 62 0831 APCLR 62 1091 APN/P 4688 AFOSR 3067 AFOSR 5305 AFOSR 757 AFOSR 953 AFOSR 954 AFOSR 987 AFOSR 1209 AFOSR 1669	SALPETRIERE HOSPITAL PARIS FRANCE	AFOSR 1499
REPUBLIC AVIATION CORP FARMINGDALE N Y	AFOSR 5073 AFOSR 1083	SAN ANDRES U MAYOR LA PAZ BOLIVIA	AFOSR 5215 AFOSR 1358
RESEARCH TRIANGLE INST DURHAM N C	AFOSR 4842	SAN MARCOS NATIONAL U LIMA PERU	AFOSR 608
RETINA FOUNDATION BOSTON MASS	APCLR 63 426 APCLR 63 839	SAO PAULO U BRAZIL	AFOSR 1434 AFOSR 5253 AFOSR 951 AFOSR 949
RHODE ISLAND U KINGSTON	APCLR 62 0733 APCLR 63 238	SASKATCHEWAN U SASKATOON CANADA	APCLR 62 0691 APCLR 62 0692 APCLR 62 0693 APCLR 62 0694 APCLR 62 1036 APCLR 62 1037 APCLR 62 1038 APCLR 63 408 APCLR 63 409 APCLR 63 410 APCLR 63 609 APCLR 63 613 APCLR 63 614
RICE U HOUSTON TEX	AFOSR 5150 AFOSR 5168		

SOLENTA S P A ROME ITALY

APCR 83 001  
APCR 83 002  
APCR 83 003

SENSITIVITY ASSOC LOS ANGELES CALIF

APCRJ1100

SHIFFIELD U ENGLAND

ABL 83 007  
APCRJ 400  
APCRJ 401  
APCRJ 402  
APCRJ 403  
APCRJ1179

SIGNA U ITALY

APCRJ 904

SMITHSONIAN INSTITUTION SCIENCE INFORMATION EXCHANGE  
WASHINGTON D C

0AR 83 016

SOUTH CAROLINA U COLUMBIA

APCR 1001  
APCRJ 100

SOUTHAMPTON U ENGLAND

ABL 83 001  
APCRJ 104  
APCRJ1007

SOUTHERN CALIFORNIA U LOS ANGELES CALIF

APCR 83 0737  
APCR 83 0781  
APCR 83 0803  
APCR 83 0970  
APCR 83 087  
APCR 83 086  
APCR 83 116  
APCR 83 104  
APCR 83 309  
APCR 83 308  
ABL 83 076  
APCR 1001  
APCR 1002  
APCR 1003  
APCR 1004  
APCR 1005  
APCR 1006  
APCR 1007  
APCR 1008  
APCR 1009  
APCR 1010  
APCRJ 100  
APCRJ 401

SOUTHERN RESEARCH INST BIRMINGHAM ALA

APCRJ 729

SOUTHWEST RESEARCH INST SAN ANTONIO TEX

ABL 83 132  
APCR 0149

SPACE GENERAL CORP EL MERRIE CALIF

APCR 83 046

SPACE TECH LABS INC REDWOOD BEACH CALIF

APCR 83 0753  
ABL 83 088

SPEERY BAND CORP FORD INSTRUMENT CO LONG ISLAND CITY N Y

APCR 83 007

SPEERY BAND CORP BENNINGTON ROAD URIVAC DIV PHILADELPHIA PA

APCRJ 708

SPEERY BAND CORP SPEERY OYSCOPE CO GREAT NECK N Y

APCR 83 012

ST JAMES U BROOKLYN N Y

APCRJ 007

ST JOSEPH COLL WEST HARTFORD CONN

APCR 83 008

ST LOUIS U MO

APCR 83 701

STARBUCK RESEARCH INST WELLS PARK CALIF

APCR 83 0917  
APCR 83 0933  
APCR 83 019  
APCR 83 063  
APCR 83 074  
APCR 83 131  
APCR 83 135  
APCR 83 133  
APCR 83 099  
APCR 83 357  
APCR 83 400  
APCR 83 402  
APCR 83 415  
APCR 83 911  
AP "L 83 062  
AP "L 83 077  
APCR 83 060  
ABL 83 062  
APCR 4751  
APCRJ 001  
APCRJ1010

STARBUCK U CALIF

APCR 83 0157  
APCR 83 1076  
APCR 83 1122  
APCR 83 126  
APCR 83 007  
APCR 83 002  
APCR 83 005  
APCR 83 007  
ABL 83 123  
ABL 83 143  
APCR 1001  
APCR 1002  
APCR 1003  
APCR 1004  
APCR 1005  
APCR 1006  
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APCR 1016  
APCR 1017  
APCR 1018  
APCR 1019  
APCR 1020

STEVENS INST OF TECH HOBBOKEN N J

APCR 4077  
APCRJ 01  
APCRJ 523  
APCRJ1040  
APCRJ1041

STOCKHOLM U SWEDEN

APCR 83 026  
APCR 0413  
APCR 0737  
APCRJ 202  
APCRJ 026  
APCRJ1106

SYDNEY U AUSTRALIA

APCR 3202  
APCRJ1041  
APCRJ1042  
APCRJ1044

SYLVANIA ELECTRIC PRODUCTS INC MOUNTAIN VIEW CALIF

APCR 83 379

SYLVANIA ELECTRIC PRODUCTS INC MALDEN MASS

APCR 83 321  
APCR 83 491

SYRACUSE U N Y

APCR 83 0049  
APCR 83 091  
ABL 83 050  
APCR 4404  
APCR 5270  
APCRJ 130  
APCRJ1022  
APCRJ1027  
APCRJ1113  
APCRJ1030

SYRACUSE U RESEARCH INST N Y

APCR 83 0724  
APCRJ 327  
APCRJ 370

SYSTEM RESEARCH LTD RICHMOND ENGLAND

APCRJ 506

SYSTEMS DEVELOPMENT CORP SANTA MONICA CALIF

APCR 83 050  
APCR 83 009  
APCR 83 101  
APCR 83 307  
APCRJ 527

SYSTEMS RESEARCH LABS INC DAYTON OHIO

ABL 83 116  
ABL 83 197

TADANWA U HOBART AUSTRALIA	AFOSR/J1361 AFOSR/J1370	THOMPSON RAND WOODBRIDGE INC REDDING BEACH CALIF	AFOSR/J1476
TECHNICAL RESEARCH GROUP NEW YORK N Y	APCR 63 240 AFOSR 4411 AFOSR 4991 AFOSR 4772 AFOSR 4861 AFOSR 4969 AFOSR 31 AFOSR/J 376 AFOSR/J 377 AFOSR/J 798 AFOSR/J 719 AFOSR/J 898 AFOSR/J1079	TORONTO U ONTARIO CANADA	ARL 63 096 ARL 63 222
TECHNISCHE HOCHSCHULE DARMSTADT WEST GERMANY	APCR/J 608	TOULOUSE U FRANCE	AFOSR/J 188 AFOSR/J 181 AFOSR/J1299
TECHNISCHE HOCHSCHULE MUNCH WEST GERMANY	APCR/J 647 AFOSR/J 944 AFOSR/J1009 AFOSR/J1213	TRB INC EAST BOSTON MASS	AFOSR 63 0990 AFOSR 63 063
TECHNISCHE HOCHSCHULE STUTTGART WEST GERMANY	ARL 63 109 ARL 63 136 ARL 63 208	TRB INC STONEY N Y	AFOSR 63 0770
TECHNISCHE HOCHSCHULE VIENNA AUSTRIA	ARL 63 098 AFOSR/J 526	TRAINING CENTER FOR EXPERIMENTAL AERODYNAMICS	AFOSR 4060 AFOSR 4065
TELETYPE SYSTEMS CORP HAWTHORNE CALIF	APCR 63 094	TRIESTE U ITALY	AFOSR 4372
TEMPLE U PHILADELPHIA PA	APCR 63 216	TUFTS U MEDFORD MASS	AFOSR 63 0969 AFOSR/J 664 AFOSR/J 762 AFOSR/J1164 AFOSR/J1372
TENNESSEE U KNOXVILLE	APCR 63 0865 APCR 63 0912 APCR 63 0913 APCR 63 0914 APCR 63 1090 APCR 63 077 APCR 63 262	TURIN POLYTECHNIC ITALY	AFOSR 4771 AFOSR/J1043
TEXAS A AND M RESEARCH FOUNDATION COLLEGE STATION	APCR 63 1094 APCR 63 244 APCR 63 418 AFOSR 5216 AFOSR/J 220	TURIN U ITALY	AFOSR/J 920 AFOSR/J1163
TEXAS COLL OF A AND M COLLEGE STATION	APCR 63 0867 APCR 63 629 AFOSR 4720	TYCO LABS INC WALTHAM MASS	AFOSR 63 0971 AFOSR 63 079 AFOSR 63 314 AFOSR 63 013
TEXAS INSTRUMENTS INC DALLAS	APCR 63 1120 APCR 63 117 APCR 63 200 APCR 63 300 APCR 63 301A APCR 63 301B APCR 63 316 APCR 63 433	UNIDAD DE INVESTIGACIONES CEREBRALES MEXICO CITY MEXICO	AFOSR/J1176 AFOSR/J1177
TEXAS U MEDICAL BRANCH GALVESTON	AFOSR/J 212	UNITED AIRCRAFT CORP EAST HARTFORD CONN	AFOSR 5161
TEXAS TECHNOLOGICAL COLL LUBBOCK	AFOSR/J 205 AFOSR/J 206 AFOSR/J1077 AFOSR/J1201 AFOSR/J1203 AFOSR/J1204 AFOSR/J1406 AFOSR/J1406	UNITED AIRCRAFT CORP HARTFORD CONN	AFOSR/J1476
TEXAS U AUSTIN	APCR 63 0792 APCR 63 1007 APCR 63 023 APCR 63 071 APCR 63 142 APCR 63 202 APCR 63 483 APCR 63 496 APCR 63 644 APCR 63 720 APCR 63 900 AFOSR 144 AFOSR 4304 AFOSR 4305 AFOSR/J 36 AFOSR/J 369 AFOSR/J 609 AFOSR/J1099 AFOSR/J1460 AFOSR/J1461 AFOSR/J1464 AFOSR/J1466	UPPSALA U SWEDEN	APCR 63 0780 APCR 63 090 APCR 63 220 APCR 63 636 APCR 63 601 APCR 63 714 APCR 63 096 ARL 63 007 ARL 63 027 ARL 63 320 ARL 63 060 ARL 63 093 ARL 63 094 ARL 63 095 ARL 63 096 ARL 63 097 ARL 63 120 ARL 63 129 ARL 63 130 ARL 63 140 ARL 63 149 ARL 63 154 ARL 63 186 ARL 63 199 ARL 63 199 ARL 63 201 ARL 63 202 ARL 63 203 ARL 63 213 ARL 63 214 ARL 63 220 ARL 63 230 ARL 63 263 ARL 63 264 ARL 63 267 AFOSR 4416 AFOSR 4417 AFOSR 4418 AFOSR 4419 AFOSR 4420 AFOSR 4440 AFOSR 4467 AFOSR/J 30 AFOSR/J 30 AFOSR/J 141 AFOSR/J 177 AFOSR/J 316 AFOSR/J 495 AFOSR/J 496 AFOSR/J 770 AFOSR/J 790 AFOSR/J1504
THORNDL CHEMICAL CORP DENVER N J	ORA 63 003 AFOSR/J1000 AFOSR/J1365 AFOSR/J1477 AFOSR 63	UTAH STATE U LOGAN	AFOSR 63 066 AFOSR 63 096
THOMAS A S INC WESTWOOD MASS	APCR 63 102	UTAH U SALT LAKE CITY	AFOSR/J 715
THOMPSON RAND WOODBRIDGE INC CANOGA PARK CALIF	AFOSR 4944 AFOSR/J 385	VERMONT U BURLINGTON	AFOSR 5202
		VIENNA U AUSTRIA	AFOSR/J 910
		VIRGINIA INST FOR SCIENTIFIC RESEARCH RICHMOND	AFOSR/J1395
		VIRGINIA U CHARLOTTESVILLE	AFOSR 5169
		WALES U CARDIFF	AFOSR 63 092
		WALES U COLL ABERYSTWYTH	AFOSR 63 757 AFOSR 63 750



WAGNER AND SHASEY CO FLUSHING N Y

APCLR 63 067  
APCLR 63 068  
APCLR 63 069  
AFOSR 840  
AFOSRJ1010  
AFOSRJ1011  
AFOSRJ1470

ARL 63 005  
ARL 63 006  
AFOSR 761  
AFOSRJ1311  
AFOSRJ1403

WASHINGTON STATE U PULLMAN

AFOSR 5103  
AFOSRJ 200  
AFOSRJ 557  
AFOSRJ 750  
AFOSRJ 913  
AFOSRJ1073

WASHINGTON U SEATTLE

APCLR 62 0709  
APCLR 62 0704  
APCLR 62 1002  
APCLR 63 222  
APCLR 63 351  
APCLR 63 415  
AFOSR 2243  
AFOSR 2401  
AFOSR 4456  
AFOSR 4700  
AFOSRJ 655  
AFOSRJ 606  
AFOSRJ1079  
AFOSRJ1940

WASHINGTON U ST LOUIS MO

AFOSR 1231  
AFOSR 4414  
AFOSR 4996  
AFOSR 5204  
AFOSRJ 37  
AFOSRJ 40  
AFOSRJ 143  
AFOSRJ 341  
AFOSRJ 302  
AFOSRJ 433  
AFOSRJ 616  
AFOSRJ 757  
AFOSRJ1796  
AFOSRJ1940  
AFOSRJ1947

WAYNE STATE U DETROIT MICH

AFOSRJ 104  
AFOSRJ1111

WEIZMAN INST OF SCIENCE REHOVOTH ISRAEL

APCLR 63 230  
APCLR 63 231  
APCLR 63 232  
APCLR 63 261  
APCLR 63 263  
APCLR 63 490  
APCLR 63 446  
APCLR 63 647  
APCLR 63 687  
APCLR 63 800  
APCLR 63 802  
ARL 63 061  
AFOSR 5254  
AFOSRJ 170  
AFOSRJ 947  
AFOSRJ 940  
AFOSRJ 931  
AFOSRJ 932  
AFOSRJ1317  
AFOSRJ1456

WESTERN ONTARIO U LONDON CANADA

APCLR 63 631  
AFOSR 4016  
AFOSRJ 107  
AFOSRJ 108  
AFOSRJ 109  
AFOSRJ 110  
AFOSRJ 111  
AFOSRJ 112  
AFOSRJ 113  
AFOSRJ 114  
AFOSRJ 115  
AFOSRJ 117  
AFOSRJ 118  
AFOSRJ 222  
AFOSRJ 223  
AFOSRJ 242  
AFOSRJ 201

WESTERN RESERVE U CLEVELAND OHIO

AFOSRJ 910  
AFOSRJ 919  
AFOSRJ 700  
AFOSRJ1900

AFOSR 4711  
AFOSRJ 203  
AFOSRJ 204  
AFOSRJ 402  
AFOSRJ 835  
AFOSRJ 836  
AFOSRJ1930

WESTINGHOUSE ELECTRIC CORP BALTIMORE MD  
WESTINGHOUSE ELECTRIC CORP PITTSBURGH PA

AFOSRJ1023  
APCLR 62 0910  
APCLR 62 0929  
APCLR 62 0930  
APCLR 63 061  
APCLR 63 167  
APCLR 63 171

WESTINGHOUSE ELECTRIC CORP WASHINGTON D C

AFOSR 4000  
AFOSRJ 500  
AFOSRJ 602  
AFOSRJ 704  
AFOSRJ1110

WISCONSIN U MADISON

ARL 63 029  
ARL 63 030  
ARL 63 043  
ARL 63 044  
ARL 63 077  
ARL 63 070  
ARL 63 079  
ARL 63 110  
ARL 63 127  
ARL 63 100  
ARL 63 172  
ARL 63 192  
ARL 63 232  
AFOSR 4002  
AFOSRJ 643  
AFOSRJ 644  
AFOSRJ 645  
AFOSRJ1120  
AFOSRJ1167  
AFOSRJ1168  
AFOSRJ1169  
AFOSRJ1170  
AFOSRJ1321

WOLF RESEARCH AND DEVELOPMENT CORP WEST CONCORD MASS

APCLR 63 037  
APCLR 63 345  
APCLR 63 445  
APCLR 63 092  
APCLR 63 093

YALE U NEW HAVEN CONN

ARL 63 062  
ARL 63 063  
ARL 63 067  
ARL 63 090  
ARL 63 120  
ARL 63 181  
ARL 63 209

AFOSR 2399  
AFOSR 4749  
AFOSR 4800  
AFOSR 4976  
AFOSRJ 70  
AFOSRJ 71  
AFOSRJ 142  
AFOSRJ 252  
AFOSRJ 279  
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AFOSRJ 427  
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AFOSRJ 470  
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AFOSRJ 629  
AFOSRJ 671  
AFOSRJ 863  
AFOSRJ1214  
AFOSRJ1204  
AFOSRJ1316  
AFOSRJ1376  
AFOSRJ1405

YESHIVA U NEW YORK N Y

AFOSR 5200  
AFOSRJ 102  
AFOSRJ 629  
AFOSRJ 764  
AFOSRJ1146  
AFOSRJ1167



RADPH J R	AFNSO 4142 AFNSOJ 401	RAYTER G	AFNSOJ 486 AFNSOJ 487	REBOV I	AFNSOJ 11400	REITERICH W	AFCL 63 100	REICHMAY J D	AFCL 63 812
RADPH S P	AFCL 63 0378	RAYFIELD M E	AFNSO 457	REDDY D G	AFNSO 2309 AFNSOJ 671 AFNSOJ 11376 AFNSOJ 11405	RITTING M	AFNSOJ 233	REICHNER S	AFNSOJ 324 AFNSOJ 325 AFNSOJ 327 AFNSOJ 328 AFNSOJ 329
RADREYLOUGH C	AFNSOJ 053	REALEY M W	AFNSO 4344	REDFORD J A	AFNSO 4840	RIZZI F	AFNSOJ 11374 AFNSOJ 11378 AFNSOJ 11380 AFNSOJ 11382	ROCK R M	AFNSOJ 644
RADRETT A H	AFNSOJ 077 AFNSOJ 11005	REANE E R	AFCL 63 111	REDFORD J A	AFNSO 4840	RIFLAND R	AFCL 63 630 AFCL 63 744	RODDIA J D	AFNSOJ 767
RADRETT T	AFCL 63 036	REARDEN D J	AFNSO 4128 AFNSOJ 754 AFNSOJ 756 AFNSOJ 830	REDFORD J A	AFNSO 4840	RINDYEN J D	AFNSOJ 677	ROFF H	AFCL 63 108
RADREYER A D	AFCL 62 1018	REARDEN D J	AFNSO 4128 AFNSOJ 754 AFNSOJ 756 AFNSOJ 830	REDFORD J A	AFNSO 4840	RINDYEN M	AFNSOJ 780	ROTH D	AFNSOJ 672
RADREY J T	AFCL 63 118	REAR V	AFNSOJ 663	REDFORD J A	AFNSO 4840	RJORESTAM J I	AFNSO 4436	ROTHBERG I D	ARL 63 084 AFNSOJ 2804 ARL 63 191 AFNSOJ 848
RADREY J H	AFNSOJ 02 AFNSOJ 03	RECKE C I	AFNSO 4280 AFNSOJ 16 AFNSOJ 11307 AFNSOJ 11304	REDFORD J A	AFNSO 4840	BLACK C C	AFNSO 1183 AFNSOJ 470 AFNSOJ 783	ROSCAT J	AFNSOJ 308 AFNSOJ 033 AFNSOJ 034
RADREY A W	AFCL 63 224	RECKEN D	ARL 63 181	REDFORD J A	AFNSO 4840	BLACKMER D H JR	AFCL 63 223 AFCL 63 209 AFCL 63 400	ROSCOFF E M	ARL 63 092 ARL 63 188
RADREY R C	AFNSOJ 650 AFNSOJ 1246 AFNSOJ 1247	REED A C	AFNSOJ 11352	REDFORD J A	AFNSO 4840	BLACKSMITH F JR	AFCL 63 182	ROSCOFF R I	AFCL 63 310
RADREY M C	AFNSOJ 400 AFNSOJ 500 AFNSOJ 402 AFNSOJ 921 AFNSOJ 1244	REDFORD E	AFCL 63 260	REDFORD J A	AFNSO 4840	BLACKSMITH D	AFCL 62 0754	ROHM H V	AFNSOJ 104 AFNSOJ 1111
RADREY J D	AFNSOJ 102 AFNSOJ 1255	REDFORD F	AFCL 63 480	REDFORD J A	AFNSO 4840	BLACKSTOCK D T	AFNSOJ 1230	ROHMERT H G	AFNSOJ 1537
RADREY M	AFNSOJ 710	REDFORD M	AFNSOJ 70	REDFORD J A	AFNSO 4840	BLACKER G H	AFCL 62 0960	ROLLE D M	AFCL 63 310
RADREY V	AFNSOJ 813	REDFORD G	AFNSOJ 11444	REDFORD J A	AFNSO 4840	BLACKER G H	AFCL 62 0960	ROLLE H-J	AFCL 63 680
RADREY J S	AFNSOJ 11002	REDFORD G	AFNSOJ 087	REDFORD J A	AFNSO 4840	BLACKWOOD H	AFNSOJ 174 AFNSOJ 176 AFNSOJ 11318	ROLLER H	AFNSO 2647 AFNSOJ 580 AFNSOJ 1599
RADREY D	AFNSOJ 11454	REDFORD H A	AFCL 63 727	REDFORD J A	AFNSO 4840	BLAU M	AFNSOJ 430	BOLLING G F	AFNSO 4000 AFNSOJ 602
RADREY F R	AFCL 62 1145	BELL R	AFCL 63 1040 AFCL 63 438	REDFORD J A	AFNSO 4840	BLAU M	AFNSOJ 430	BOLT B	AFCL 62 1170
RADREY G	AFNSOJ 11611	BELL F F	AFCL 63 714	REDFORD J A	AFNSO 4840	BLFI T	AFNSOJ 1174	BOMMEL H	AFNSOJ 1157
RADREY A D	AFNSOJ 338 AFNSOJ 404 AFNSOJ 11260 AFNSOJ 11438 AFNSOJ 11439	BELL F R	AFNSOJ 11360	REDFORD J A	AFNSO 4840	BLICHMAN W	AFNSOJ 11373 AFNSOJ 11374	BONNET V	AFNSOJ 402 AFNSOJ 411
RADREY H G	AFCL 63 070	BELL J E	AFNSO 4200	REDFORD J A	AFNSO 4840	BLICK A D	AFNSOJ 11474	BONCALZA E C D	AFNSOJ 853
RADREY J	AFCL 62 1124	BELL D M	AFCL 63 344	REDFORD J A	AFNSO 4840	BLICKER R	AFCL 63 192	BONHAMPT F	AFNSOJ 262 AFNSOJ 263 AFNSOJ 703
RADREY F	AFNSO 2254 AFNSO 2876 AFNSO 4701 AFNSO 4707 AFNSOJ 11366	RELIEN J S	AFCL 63 800	REDFORD J A	AFNSO 4840	BLICKER R	AFCL 63 192	BONFIGLIOLI G	AFNSO 4760 AFNSO 4764 AFNSO 4865 AFNSOJ 20 AFNSOJ 34 AFNSOJ 367 AFNSOJ 1140
RADREY F	AFNSOJ 11476	RELYO J	AFNSOJ 482 AFNSOJ 11538	REDFORD J A	AFNSO 4840	BLICKER R	AFCL 63 192	BOROWITZ S	AFCL 62 1089
RADREY D	AFCL 63 111	REMYOVEN A	AFCL 63 230	REDFORD J A	AFNSO 4840	BLICKER R	AFCL 63 192	BORCHERTS R	AFNSO 4697
RADREY A L JR	AFCL 62 0440	RENNETT J H	AFCL 63 188	REDFORD J A	AFNSO 4840	BLICKER R	AFCL 63 192	BOROFF T D JR	AFCL 62 4948
RADREY A L	AFCL 63 040	RENNETT JR W R	AFNSOJ 296	REDFORD J A	AFNSO 4840	BLICKER R	AFCL 63 192	BORGES H F	ORA 63 001
RADREY F W	AFNSOJ 712 AFNSOJ 11018	RENSON R F	AFCL 63 624	REDFORD J A	AFNSO 4840	BLICKER R	AFCL 63 192	BORKAN H	AFCL 63 067
RADREY D R	AFCL 62 1138	RENSON R F	AFCL 63 624	REDFORD J A	AFNSO 4840	BLICKER R	AFCL 63 192		
RADREY H F	AFCL 63 184	RENSON R F	AFCL 63 624	REDFORD J A	AFNSO 4840	BLICKER R	AFCL 63 192		
RADREY A	AFNSO 2161	RENSON R F	AFCL 63 624	REDFORD J A	AFNSO 4840	BLICKER R	AFCL 63 192		
RADREY W H	AFNSOJ 11460	RENSON R F	AFCL 63 624	REDFORD J A	AFNSO 4840	BLICKER R	AFCL 63 192		
RADREY F	ARL 63 133	RENSON R F	AFCL 63 624	REDFORD J A	AFNSO 4840	BLICKER R	AFCL 63 192		





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DAVIDSON R F	AFOSBJ 822	DAVIDS J A	AFOSBJ 856 AFOSBJ 855	DEARRE T C	AFOSBJ 219	DEAN T	ARL 63 830 ARL 63 144	DELANEY L	AFOSBJ 63 898 AFOSBJ 63 118
DAVIDSON R F	AFOSBJ 894 AFOSBJ 857	DAVIDS J M	AFOSBJ1908 AFOSBJ1909	DEBIS D	AFOSBJ 901	DEAN T M	AFOSBJ 63 1400 AFOSBJ 63 144	DELANEY A	AFOSBJ 63 864
DAVIDSON R F	AFOSBJ 83 1121	DAVIDS D F	AFOSBJ 6909	DEBORAH M	AFOSBJ 82 0311	DEAN T R C	AFOSBJ1930	DELANEY L JR	AFOSBJ 63 844
DAVIDSON M D	AFOSBJ1430	DAVIDS D M	AFOSBJ 6623	DEBORCHON R	AFOSBJ 951	DEAN T D L	AFOSBJ 6690 AFOSBJ 6681 AFOSBJ 6680 AFOSBJ1948 AFOSBJ1941	DELANEY L T JR	AFOSBJ 63 817
DAVIDSON M T	AFOSBJ1194 AFOSBJ1147 AFOSBJ1149	DAVIDS M T	AFOSBJ 175 AFOSBJ 178 AFOSBJ 179	DEBRUN K	AFOSBJ 4867	DEAN T J	AFOSBJ 6690 AFOSBJ 6681 AFOSBJ 6680 AFOSBJ1948 AFOSBJ1941	DELANEY M F	ARL 63 104
DAVIDSON T	AFOSBJ 648	DAVIDS J	AFOSBJ 62 1047	DEBRYNE P	AFOSBJ 846	DE FRANCIA G T	AFOSBJ 63 140	DELANEY M J	AFOSBJ 854 AFOSBJ 855 AFOSBJ 857
DAVIDSON W R	AFOSBJ 8071	DAVIDS J A	AFOSBJ1140	DEBRYNE J	AFOSBJ 114 AFOSBJ 115 AFOSBJ 116 AFOSBJ 117 AFOSBJ 118	DEHANT P	AFOSBJ 63 140	DELANEY M J	AFOSBJ 104
DAVIDSON W R	AFOSBJ 791 AFOSBJ1147	DAVIDS J C	AFOSBJ 875	DEBRYNE P A T	AFOSBJ 4937	DEHANN M	AFOSBJ 411	DELANEY M F	AFOSBJ1160
DAVIDSON J T	AFOSBJ 43 930	DAVIDS P A	AFOSBJ 63 849	DEBRYNE P	AFOSBJ 767 AFOSBJ 781	DEHANT P	AFOSBJ1177	DELANEY M D	AFOSBJ 63 389
DAVIDSON M D	AFOSBJ 918	DAVIDS R G	AFOSBJ 63 887	DEBRYNE P	AFOSBJ 767 AFOSBJ 781	DEHANT P	AFOSBJ 624	DELANEY M D	AFOSBJ 800
DAVIDSON R M	AFOSBJ 474	DAVIDS R M	AFOSBJ 961 AFOSBJ 963	DEBRYNE P A T	AFOSBJ 790 AFOSBJ 767	DEHANT P	AFOSBJ 5066	DELANEY M F	AFOSBJ 847
DAVIDSON W	AFOSBJ 3747 AFOSBJ11761	DAVIDSON J F	AFOSBJ 627	DEBRYNE P A T	AFOSBJ 790 AFOSBJ 767	DEHANT P	AFOSBJ 610 AFOSBJ1171	DELANEY M F	AFOSBJ1173
DAVIDSON W R	ARL 63 140 ARL 63 147	DAV G	AFOSBJ1141	DEBRYNE P A T	AFOSBJ1173	DEHANT P	AFOSBJ 610 AFOSBJ1171	DELANEY M L	AFOSBJ 4100
DAVIDSON W R	AFOSBJ 761 AFOSBJ 889 AFOSBJ 949	DE BAR B R	AFOSBJ 231	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 4217	DE BARTSCHMIDT J T	AFOSBJ 63 865	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 92	DE CAROLIS V	AFOSBJ 262 AFOSBJ 263 AFOSBJ 701	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 114	DE DOMINICIS C	AFOSBJ 219	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 4850 AFOSBJ 843	DE FLECK J	AFOSBJ 62 8925 AFOSBJ 62 8928	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 63 141	DE LANGER M F	AFOSBJ 63 651 AFOSBJ 63 711 AFOSBJ 63 747	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 104	DE MAINE P A T	AFOSBJ 287 AFOSBJ 498 AFOSBJ1149	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ1147	DE MAYO D	AFOSBJ1160	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	ARL 63 894 ARL 63 236	DE MORGAN R J	AFOSBJ1138	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 63 1194	DE MORGAN J M	AFOSBJ 63 850	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 63 1071	DE MORGAN P	AFOSBJ1171 AFOSBJ1172	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 63 726	DE MORGAN T C	AFOSBJ 63 842	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 261 AFOSBJ1147	DE MORGAN A	ARL 63 841	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 63 240 AFOSBJ 63 246	DE MORGAN M	AFOSBJ 62 1137	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 63 823	DE MORGAN P	AFOSBJ 21	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ1147	DE MORGAN R	AFOSBJ 63 871	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	ARL 63 847	DE MORGAN T M	AFOSBJ 986	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 63 1012 AFOSBJ 63 241	DE MORGAN F J	AFOSBJ 62 8741	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 840	DE MORGAN P E T	AFOSBJ1171	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	ARL 63 141	DE MORGAN R	AFOSBJ 840	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630
DAVIDSON W R	AFOSBJ 144	DE MORGAN M	AFOSBJ 144	DEBRYNE P A T	AFOSBJ 4184	DEHANT P	ARL 63 141	DELANEY M	AFOSBJ 630









WADSWORTH R W APR 40 417 APR 40 418	WADSWORTH E A APR 40 478 APR 40 479	WADSWORTH J D APR 40 497 APR 40 498 APR 40 499	WADSWORTH L A APR 40 517 APR 40 518 APR 40 519 APR 40 520 APR 40 521 APR 40 522 APR 40 523 APR 40 524 APR 40 525 APR 40 526 APR 40 527 APR 40 528 APR 40 529 APR 40 530 APR 40 531 APR 40 532 APR 40 533 APR 40 534 APR 40 535 APR 40 536 APR 40 537 APR 40 538 APR 40 539 APR 40 540 APR 40 541 APR 40 542 APR 40 543 APR 40 544 APR 40 545 APR 40 546 APR 40 547 APR 40 548 APR 40 549 APR 40 550 APR 40 551 APR 40 552 APR 40 553 APR 40 554 APR 40 555 APR 40 556 APR 40 557 APR 40 558 APR 40 559 APR 40 560	WADSWORTH M S APR 40 561 APR 40 562 APR 40 563 APR 40 564 APR 40 565 APR 40 566 APR 40 567 APR 40 568 APR 40 569 APR 40 570 APR 40 571 APR 40 572 APR 40 573 APR 40 574 APR 40 575 APR 40 576 APR 40 577 APR 40 578 APR 40 579 APR 40 580 APR 40 581 APR 40 582 APR 40 583 APR 40 584 APR 40 585 APR 40 586 APR 40 587 APR 40 588 APR 40 589 APR 40 590 APR 40 591 APR 40 592 APR 40 593 APR 40 594 APR 40 595 APR 40 596 APR 40 597 APR 40 598 APR 40 599 APR 40 600	WADSWORTH N A APR 40 601 APR 40 602 APR 40 603 APR 40 604 APR 40 605 APR 40 606 APR 40 607 APR 40 608 APR 40 609 APR 40 610 APR 40 611 APR 40 612 APR 40 613 APR 40 614 APR 40 615 APR 40 616 APR 40 617 APR 40 618 APR 40 619 APR 40 620 APR 40 621 APR 40 622 APR 40 623 APR 40 624 APR 40 625 APR 40 626 APR 40 627 APR 40 628 APR 40 629 APR 40 630 APR 40 631 APR 40 632 APR 40 633 APR 40 634 APR 40 635 APR 40 636 APR 40 637 APR 40 638 APR 40 639 APR 40 640 APR 40 641 APR 40 642 APR 40 643 APR 40 644 APR 40 645 APR 40 646 APR 40 647 APR 40 648 APR 40 649 APR 40 650	WADSWORTH O A APR 40 651 APR 40 652 APR 40 653 APR 40 654 APR 40 655 APR 40 656 APR 40 657 APR 40 658 APR 40 659 APR 40 660 APR 40 661 APR 40 662 APR 40 663 APR 40 664 APR 40 665 APR 40 666 APR 40 667 APR 40 668 APR 40 669 APR 40 670 APR 40 671 APR 40 672 APR 40 673 APR 40 674 APR 40 675 APR 40 676 APR 40 677 APR 40 678 APR 40 679 APR 40 680 APR 40 681 APR 40 682 APR 40 683 APR 40 684 APR 40 685 APR 40 686 APR 40 687 APR 40 688 APR 40 689 APR 40 690 APR 40 691 APR 40 692 APR 40 693 APR 40 694 APR 40 695 APR 40 696 APR 40 697 APR 40 698 APR 40 699 APR 40 700	WADSWORTH P A APR 40 701 APR 40 702 APR 40 703 APR 40 704 APR 40 705 APR 40 706 APR 40 707 APR 40 708 APR 40 709 APR 40 710 APR 40 711 APR 40 712 APR 40 713 APR 40 714 APR 40 715 APR 40 716 APR 40 717 APR 40 718 APR 40 719 APR 40 720 APR 40 721 APR 40 722 APR 40 723 APR 40 724 APR 40 725 APR 40 726 APR 40 727 APR 40 728 APR 40 729 APR 40 730 APR 40 731 APR 40 732 APR 40 733 APR 40 734 APR 40 735 APR 40 736 APR 40 737 APR 40 738 APR 40 739 APR 40 740 APR 40 741 APR 40 742 APR 40 743 APR 40 744 APR 40 745 APR 40 746 APR 40 747 APR 40 748 APR 40 749 APR 40 750	WADSWORTH Q A APR 40 751 APR 40 752 APR 40 753 APR 40 754 APR 40 755 APR 40 756 APR 40 757 APR 40 758 APR 40 759 APR 40 760 APR 40 761 APR 40 762 APR 40 763 APR 40 764 APR 40 765 APR 40 766 APR 40 767 APR 40 768 APR 40 769 APR 40 770 APR 40 771 APR 40 772 APR 40 773 APR 40 774 APR 40 775 APR 40 776 APR 40 777 APR 40 778 APR 40 779 APR 40 780 APR 40 781 APR 40 782 APR 40 783 APR 40 784 APR 40 785 APR 40 786 APR 40 787 APR 40 788 APR 40 789 APR 40 790 APR 40 791 APR 40 792 APR 40 793 APR 40 794 APR 40 795 APR 40 796 APR 40 797 APR 40 798 APR 40 799 APR 40 800	WADSWORTH R A APR 40 801 APR 40 802 APR 40 803 APR 40 804 APR 40 805 APR 40 806 APR 40 807 APR 40 808 APR 40 809 APR 40 810 APR 40 811 APR 40 812 APR 40 813 APR 40 814 APR 40 815 APR 40 816 APR 40 817 APR 40 818 APR 40 819 APR 40 820 APR 40 821 APR 40 822 APR 40 823 APR 40 824 APR 40 825 APR 40 826 APR 40 827 APR 40 828 APR 40 829 APR 40 830 APR 40 831 APR 40 832 APR 40 833 APR 40 834 APR 40 835 APR 40 836 APR 40 837 APR 40 838 APR 40 839 APR 40 840 APR 40 841 APR 40 842 APR 40 843 APR 40 844 APR 40 845 APR 40 846 APR 40 847 APR 40 848 APR 40 849 APR 40 850	WADSWORTH S A APR 40 851 APR 40 852 APR 40 853 APR 40 854 APR 40 855 APR 40 856 APR 40 857 APR 40 858 APR 40 859 APR 40 860 APR 40 861 APR 40 862 APR 40 863 APR 40 864 APR 40 865 APR 40 866 APR 40 867 APR 40 868 APR 40 869 APR 40 870 APR 40 871 APR 40 872 APR 40 873 APR 40 874 APR 40 875 APR 40 876 APR 40 877 APR 40 878 APR 40 879 APR 40 880 APR 40 881 APR 40 882 APR 40 883 APR 40 884 APR 40 885 APR 40 886 APR 40 887 APR 40 888 APR 40 889 APR 40 890 APR 40 891 APR 40 892 APR 40 893 APR 40 894 APR 40 895 APR 40 896 APR 40 897 APR 40 898 APR 40 899 APR 40 900	WADSWORTH T A APR 40 901 APR 40 902 APR 40 903 APR 40 904 APR 40 905 APR 40 906 APR 40 907 APR 40 908 APR 40 909 APR 40 910 APR 40 911 APR 40 912 APR 40 913 APR 40 914 APR 40 915 APR 40 916 APR 40 917 APR 40 918 APR 40 919 APR 40 920 APR 40 921 APR 40 922 APR 40 923 APR 40 924 APR 40 925 APR 40 926 APR 40 927 APR 40 928 APR 40 929 APR 40 930 APR 40 931 APR 40 932 APR 40 933 APR 40 934 APR 40 935 APR 40 936 APR 40 937 APR 40 938 APR 40 939 APR 40 940 APR 40 941 APR 40 942 APR 40 943 APR 40 944 APR 40 945 APR 40 946 APR 40 947 APR 40 948 APR 40 949 APR 40 950	WADSWORTH U A APR 40 951 APR 40 952 APR 40 953 APR 40 954 APR 40 955 APR 40 956 APR 40 957 APR 40 958 APR 40 959 APR 40 960 APR 40 961 APR 40 962 APR 40 963 APR 40 964 APR 40 965 APR 40 966 APR 40 967 APR 40 968 APR 40 969 APR 40 970 APR 40 971 APR 40 972 APR 40 973 APR 40 974 APR 40 975 APR 40 976 APR 40 977 APR 40 978 APR 40 979 APR 40 980 APR 40 981 APR 40 982 APR 40 983 APR 40 984 APR 40 985 APR 40 986 APR 40 987 APR 40 988 APR 40 989 APR 40 990 APR 40 991 APR 40 992 APR 40 993 APR 40 994 APR 40 995 APR 40 996 APR 40 997 APR 40 998 APR 40 999 APR 40 1000
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WILSON, JAMES W.	APR 20 1970	WILSON, JAMES W.	APR 20 1970	WILSON, JAMES W.	APR 20 1970	WILSON, JAMES W.	APR 20 1970
WILSON, JAMES W.	APR 21 1970	WILSON, JAMES W.	APR 21 1970	WILSON, JAMES W.	APR 21 1970	WILSON, JAMES W.	APR 21 1970
WILSON, JAMES W.	APR 22 1970	WILSON, JAMES W.	APR 22 1970	WILSON, JAMES W.	APR 22 1970	WILSON, JAMES W.	APR 22 1970
WILSON, JAMES W.	APR 23 1970	WILSON, JAMES W.	APR 23 1970	WILSON, JAMES W.	APR 23 1970	WILSON, JAMES W.	APR 23 1970
WILSON, JAMES W.	APR 24 1970	WILSON, JAMES W.	APR 24 1970	WILSON, JAMES W.	APR 24 1970	WILSON, JAMES W.	APR 24 1970
WILSON, JAMES W.	APR 25 1970	WILSON, JAMES W.	APR 25 1970	WILSON, JAMES W.	APR 25 1970	WILSON, JAMES W.	APR 25 1970
WILSON, JAMES W.	APR 26 1970	WILSON, JAMES W.	APR 26 1970	WILSON, JAMES W.	APR 26 1970	WILSON, JAMES W.	APR 26 1970
WILSON, JAMES W.	APR 27 1970	WILSON, JAMES W.	APR 27 1970	WILSON, JAMES W.	APR 27 1970	WILSON, JAMES W.	APR 27 1970
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WILSON, JAMES W.	APR 29 1970	WILSON, JAMES W.	APR 29 1970	WILSON, JAMES W.	APR 29 1970	WILSON, JAMES W.	APR 29 1970
WILSON, JAMES W.	APR 30 1970	WILSON, JAMES W.	APR 30 1970	WILSON, JAMES W.	APR 30 1970	WILSON, JAMES W.	APR 30 1970



APRIL 20 1960	APRIL 21 1960	APRIL 22 1960	APRIL 23 1960	APRIL 24 1960	APRIL 25 1960	APRIL 26 1960	APRIL 27 1960	APRIL 28 1960
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MAY 26 1960	MAY 27 1960	MAY 28 1960	MAY 29 1960	MAY 30 1960	MAY 31 1960	JUNE 1 1960	JUNE 2 1960	JUNE 3 1960
JUNE 4 1960	JUNE 5 1960	JUNE 6 1960	JUNE 7 1960	JUNE 8 1960	JUNE 9 1960	JUNE 10 1960	JUNE 11 1960	JUNE 12 1960
JUNE 13 1960	JUNE 14 1960	JUNE 15 1960	JUNE 16 1960	JUNE 17 1960	JUNE 18 1960	JUNE 19 1960	JUNE 20 1960	JUNE 21 1960
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NOVEMBER 4 1960	NOVEMBER 5 1960	NOVEMBER 6 1960	NOVEMBER 7 1960	NOVEMBER 8 1960	NOVEMBER 9 1960	NOVEMBER 10 1960	NOVEMBER 11 1960	NOVEMBER 12 1960
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DECEMBER 19 1960	DECEMBER 20 1960	DECEMBER 21 1960	DECEMBER 22 1960	DECEMBER 23 1960	DECEMBER 24 1960	DECEMBER 25 1960	DECEMBER 26 1960	DECEMBER 27 1960
DECEMBER 28 1960	DECEMBER 29 1960	DECEMBER 30 1960	DECEMBER 31 1960					

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STIMMONS D A	APFOSJ1909 APFCL 65 301	SMITH D	APFOSJ1877	STONERSON D	APFCL 65 179	STONERSON D	APFOSJ 606 APFOSJ 605	STONOFF A J	APFCL 65 709
SILBERBERG A	APOSJ 2507 APOSJ 2505	SMITH F D	APOSJ 1806	STONERSON D	APFCL 62 0905	STONOFF P V	APFCL 65 105	STONOFF C W	APFCL 65 001
SILVER L B	APFOSJ 709	SMITH A A	APOSJ 6755	STONERSON D	APFOSJ1202	STONOFF R M	APFOSJ 6719 APFOSJ 67 APFOSJ 176	STONOFF M B	APFCL 65 055
SILVER M B	APFOSJ 6636	SMITH B L	APFOSJ1905	STONERSON D	APFOSJ1207	STONOFF D	APFCL 65 190	STONOFF D	APFOSJ 2500
SILVA P	APFOSJ1101	SMITH F F	APFOSJ1196	STONERSON D	APFOSJ 650	STONOFF H M	APFOSJ 677	STONOFF A J R	APFCL 62 0040 APFCL 62 0070 APFCL 62 037 APFCL 65 142
SILVER I A	APFOSJ 839	SMITH F J	APFCL 62 0015	STONERSON D	APFOSJ1186	STONOFF A L	APFOSJ 674	STONOFF C F	APFCL 62 0017
SILVERBERG M	APFCL 65 607	SMITH E V P	APFCL 62 1006 APFCL 65 496	STONERSON D	APFOSJ 650	STONOFF C V	APFOSJ 276 APFOSJ 140 APFOSJ1493	STONOFF M H	APFOSJ 176
SILVERMAN A J	APFOSJ 67 APFOSJ 172 APFOSJ 699	SMITH G N	APFOSJ 200 APFOSJ 915	STONERSON D	APFOSJ 1924	STONOFF A T JR	APFCL 67 1984	STONOFF A	APFOSJ 262
SILVERMAN B D	APFCL 65 096	SMITH M T U	APFCL 65 669	STONERSON D	APFCL 62 1129	STONOFF D L	APFOSJ 126	STONOFF M W	APFCL 65 754
SILVERMAN G W	APFCL 65 855	SMITH JR J P	APFOSJ 725	STONERSON D	APFOSJ1160	STONOFF D W	APFOSJ 662	STONOFF J J	APFOSJ 6500
SIMMONS W A	APFOSJ 602	SMITH JR J H	APFOSJ1066	STONERSON D	APFOSJ1066	STONOFF V P	APFCL 65 671 APFCL 65 628	STONOFF B	APFCL 65 154
SIMMONS W C	APFCL 65 005	SMITH J D	APFOSJ1291 APFOSJ1486	STONERSON D	APFOSJ 650	STONOFF M M	APFOSJ 77 APFOSJ 78	STONOFF M S	APFOSJ 166
SIMPSON A M JR	APFCL 62 0870 APFCL 65 282 APFCL 65 673	SMITH K H	APFOSJ 4807	STONERSON D	APFOSJ 6610 APFOSJ 161 APFOSJ 496	STONOFF M M	APFOSJ 64 APFOSJ1220	STONOFF P C	APFOSJ1492
SIMPSON W T	APFOSJ 2401 APFOSJ 694	SMITH M W	APFOSJ 284	STONERSON D	APFOSJ 718	STONOFF M M	APFCL 65 670	STONOFF P A D	APFOSJ 200 APFOSJ 200 APFOSJ 204 APFOSJ 200 APFOSJ 670
SINGER J	APFOSJ 6411 APFOSJ 710 APFOSJ 850	SMITH R L JR	APFCL 65 647	STONERSON D	APFOSJ1208	STONOFF P W	APFOSJ 771	STONOFF P M	APFCL 65 687
SINGER J R	APFOSJ 2251 APFOSJ 82 APFOSJ 65 APFOSJ 88	SMITH R	APFCL 62 1105	STONERSON D	APFCL 65 054	STONOFF R C	APFOSJ 2796 APFOSJ 2029 APFOSJ1969	STONOFF J M	APFCL 62 0075
SINGER R F	APFOSJ 4500	SMITH R C	APFOSJ1308	STONERSON D	APFOSJ 61	STONOFF R E	APFOSJ 650	STONOFF M W	APFOSJ 614
SIAM M	APFOSJ 9110 APFOSJ 674	SMITH R D	APFCL 65 046	STONERSON D	APFCL 65 070	STONOFF T W	APFCL 65 070	STONOFF T	APFCL 65 302
SIROVICH L	APFOSJ 538	SMITH R V	APFCL 65 091	STONERSON D	APFOSJ 842	STONOFF V	APFOSJ 608	STONOFF M	APFOSJ 606 APFOSJ 613 APFOSJ 616
SIRETS M D	APFOSJ 77	SMITH S W	APFOSJ 256	STONERSON D	APFOSJ 8767	STONOFF W A JR	APFCL 62 0767	STONOFF P Z	APFCL 65 192
SIVERTZ M H	APFCL 65 378	SMITH W B	APFOSJ 161	STONERSON D	APFOSJ1161	STONOFF N	APFOSJ1161	STONOFF R A W	APFOSJ 676 APFOSJ 686
SJRVF D	APFOSJ 675	SMITH W R	APFOSJ 284	STONERSON D	APFOSJ1161	STONOFF L	APFCL 65 180	STONOFF M H	APFOSJ 906 APFOSJ1171 APFOSJ1069
SKELI B C	APFOSJ1600 APFOSJ1601	SMITH W R	APFOSJ 284	STONERSON D	APFOSJ1161	STONOFF P A	APFOSJ 670	STONOFF J D	APFCL 65 114
SKERRLE A	APFCL 67 1070	SMITH W R	APFOSJ 284	STONERSON D	APFOSJ1161	STONOFF P M	APFOSJ 670	STONOFF J N	APFOSJ 676 APFOSJ 686
SKEMAN J W	APFCL 65 175	SMITH W R	APFOSJ 284	STONERSON D	APFOSJ1161	STONOFF P M	APFOSJ 670	STONOFF W	APFOSJ1907
SKJERGSTAD D	APFOSJ 1817	SMITH W R	APFOSJ 284	STONERSON D	APFOSJ1161	STONOFF P M	APFOSJ 670	STONOFF W A	APFCL 62 0011
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SLATTERAY A	APFCL 65 837	SMITH W R	APFOSJ 284	STONERSON D	APFOSJ1161	STONOFF P M	APFOSJ 670	STONOFF A W	APFCL 65 000
SLITTEN C J	APFCL 62 0744 APFCL 65 051 APFCL 65 182	SMITH W R	APFOSJ 284	STONERSON D	APFOSJ1161	STONOFF P M	APFOSJ 670	STONOFF M W D	APFOSJ 676 APFOSJ1906
SLIFKIN L W	APFOSJ1553	SMITH W R	APFOSJ 284	STONERSON D	APFOSJ1161	STONOFF P M	APFOSJ 670	STONOFF D	APFOSJ1925 APFOSJ1974
SLITKEY C	APFOSJ 9322	SMITH W R	APFOSJ 284	STONERSON D	APFOSJ1161	STONOFF P M	APFOSJ 670	STONOFF J	APFOSJ 700
SMALL J R	APFOSJ 284	SMITH W R	APFOSJ 284	STONERSON D	APFOSJ1161	STONOFF P M	APFOSJ 670	STONOFF D	APFOSJ 650
		SMITH W R	APFOSJ 284	STONERSON D	APFOSJ1161	STONOFF P M	APFOSJ 670	STONOFF M B	APFOSJ 607



TOLUP V P	APFOS 3720 APFOSJ 470 APFOSJ 600 APFOSJ1000	TRUV R	AFOSE 4000 APFOSJ 111 APFOSJ 622 APFOSJ 707	VANDUFIN G P	APFOS 61 800	VANDUCEL E	APFOS 61 800	VANDUO R V	APFOSJ 611
TORILAND E U	APFOS 4130	TRITIPU D A	APFOSJ1001 APFOSJ1007 APFOSJ1000 APFOSJ1100	VAN I P	ARL 61 870 ARL 61 800 ARL 61 180	VANDUIC P A	APFOS 61 200	VANDUO R W	APFOS 62 0710
TORILAND E U	APFOSJ1104 APFOSJ1104	TRONJ T	APFOS 61 410	VANDUJ M J	APFOS 6170	VANDUJ M H	APFOSJ 700 APFOSJ 707 APFOSJ 700 APFOSJ 700 APFOSJ 700	VANDUO R X	APFOSJ 64
TORILAND E U	APFOSJ 670	TRUJ M R	APFOSJ 700	VANDUJ M J	APFOS 6170	VANDUJ M H	APFOS 61 070 APFOS 61 001	VANDUO R Y	APFOS 62 1022 APFOS 62 1071
TORILAND E U	APFOS 6707 APFOS 4700	TRUJ M R	APFOSJ 700	VANDUJ M J	APFOS 6170	VANDUJ M H	APFOS 61 070 APFOS 61 001	VANDUO R Z	ARL 61 017
TORILAND E U	ARL 61 150	TRUJ M R	APFOS 4000	VANDUJ M J	APFOSJ 217 APFOSJ 210	VANDUJ M H	APFOS 62 002	VANDUO R A	APFOSJ 67
TORILAND E U	ARL 61 000	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	ARL 61 107	VANDUO R B	APFOS 61 107
TORILAND E U	ARL 61 000	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R C	APFOS 62 000
TORILAND E U	APFOS 61 002	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R D	APFOSJ 600
TORILAND E U	APFOSJ 950	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R E	APFOSJ 902
TORILAND E U	APFOS 11407	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R F	APFOSJ 707
TORILAND E U	APFOSJ1250 APFOSJ1251 APFOSJ1252	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R G	APFOS 62 0721 APFOS 62 410 APFOS 62 017
TORILAND E U	APFOSJ 700	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R H	APFOS 61 700
TORILAND E U	APFOSJ 700	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R I	APFOS 6000
TORILAND E U	APFOSJ1000 APFOSJ1001	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R J	ARL 61 001
TORILAND E U	APFOSJ 920	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R K	APFOS 61 997
TORILAND E U	APFOS 61 410	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R L	APFOS 62 1000
TORILAND E U	APFOSJ 750 APFOSJ 700	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R M	APFOS 61 710
TORILAND E U	APFOS 4171	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R N	APFOSJ 10 APFOSJ 70
TORILAND E U	APFOS 61 631	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R O	APFOS 62 1000
TORILAND E U	APFOS 1103	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R P	APFOSJ 1000
TORILAND E U	APFOS 61 800	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R Q	APFOSJ1000
TORILAND E U	APFOSJ 310	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R R	APFOSJ1100
TORILAND E U	APFOS 62 0705	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R S	APFOS 6070 APFOSJ 170
TORILAND E U	APFOS 4707	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R T	APFOS 61 170 APFOS 61 370
TORILAND E U	APFOSJ 700	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R U	APFOSJ 700
TORILAND E U	APFOS 4030 APFOS 4700	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R V	APFOSJ 707
TORILAND E U	APFOSJ 850 APFOSJ 855 APFOSJ 850 APFOSJ 857	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R W	APFOSJ 820
TORILAND E U	APFOS 61 050	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R X	ARL 61 107
TORILAND E U	APFOS 61 465	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R Y	APFOSJ 870
TORILAND E U	APFOS 5100	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R Z	ARL 61 000 ARL 61 021 ARL 61 023
TORILAND E U	APFOSJ1000	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R A	APFOS 9200
TORILAND E U	APFOS 62 1150 APFOS 62 1100 APFOS 61 031	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R B	APFOS 61 000
TORILAND E U	APFOS 62 0930	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R C	APFOSJ 707
TORILAND E U	APFOSJ1072	TRUJ M R	APFOSJ 630	VANDUJ M J	APFOSJ 920	VANDUJ M H	APFOS 62 001 APFOS 62 1000 APFOS 62 1000	VANDUO R D	APFOS 5207



VENR F O	APRCL J 791 APRCL J 1997	VON J I	APRCL J 1799	VONNA J P	APRCL 6567 APRCL 6995 APRCL 6976 APRCL 6997 APRCL 6999 APRCL 6966	ZANBORN L	APRCL J 697 APRCL J 696	ZIPKOP N O	APRCL 69 990 APRCL 69 916
VENR F B	APRCL 6991	VON V	APRCL 11697 APRCL 11619	ZANCKMPTT A	APRCL J 696	ZIPKOP N W	APRCL 6969	ZIPKOP N O	APRCL 69 990 APRCL 69 916
VENR L	APRCL J 697	VON J T	APRCL 69 166	ZANCKMPTT B J	APRCL J 169	ZIPKOP N C	APRCL J 1779	ZIPKOP N O	APRCL 69 990 APRCL 69 916
VENR V	APRCL 69 166	VONCHG A	APRCL J 1167	ZANCKMPTT M B	APRCL 69 266 APRCL 69 269	ZIPKOP N F	APRCL 6967	ZIPKOP N O	APRCL 69 990 APRCL 69 916
VENR A	APRCL J 696 APRCL J 697 APRCL J 696 APRCL J 696 APRCL J 696	VON B	APRCL 6979	VII CHI WA	APRCL 11617	ZIPKOP N J	APRCL 69 1179	ZIPKOP N O	APRCL 69 990 APRCL 69 916
VENR D	APRCL 11699	VON P	APRCL 11679	ZANCKMPTT R A	APRCL J 7	ZIPKOP N J	APRCL 69 671	ZIPKOP N O	APRCL 69 990 APRCL 69 916
VENRMAN I	APRCL 69 767	VONTRAWA	APRCL J 699	ZANCKMPTT R P	APRCL J 197	ZIPKOP N J	APRCL 69 671	ZIPKOP N O	APRCL 69 990 APRCL 69 916
VENRMAN M O	APRCL J 1969 APRCL J 1669	VONTRAWA B	APRCL J 769	ZANCKMPTT T L	APRCL J 767	ZIPKOP N J	APRCL 69 671	ZIPKOP N O	APRCL 69 990 APRCL 69 916
VENR M C	APRCL 69 619	VONTRAWA B	APRCL 11699 APRCL 11699 APRCL 11697	ZANCKMPTT T A	APRCL 11126	ZIPKOP N J	APRCL 69 671	ZIPKOP N O	APRCL 69 990 APRCL 69 916
VENR M M	APRCL 69 671 APRCL 69 667 APRCL 69 667 APRCL 69 667 APRCL 69 667	VONTRAWA B	APRCL J 699	ZANCKMPTT T C	APRCL 11126	ZIPKOP N J	APRCL 69 671	ZIPKOP N O	APRCL 69 990 APRCL 69 916
		VONTRAWA B	APRCL 6969	ZANCKMPTT T M	APRCL 69 197	ZIPKOP N J	APRCL 69 671	ZIPKOP N O	APRCL 69 990 APRCL 69 916
		VONTRAWA B	APRCL 6969	ZANCKMPTT T M O	APRCL 69 6916	ZIPKOP N J	APRCL 69 671	ZIPKOP N O	APRCL 69 990 APRCL 69 916
		VONTRAWA B	APRCL 69 699	ZANCKMPTT T V	APRCL 69 197	ZIPKOP N J	APRCL 69 671	ZIPKOP N O	APRCL 69 990 APRCL 69 916
					APRCL 69 199 APRCL 69 777	ZIPKOP N J	APRCL 69 671	ZIPKOP N O	APRCL 69 990 APRCL 69 916



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137	AF AFOSR /0140/61 AFOSRJ1190 AFOSRJ1199	AF AFOSR /0141/61 AFOSR 5133	AF AFOSR /0004/62 AFOSRJ1207	AF AFOSR /0007/62 AFOSRJ1573	AF AFOSR /0049/62 AFOSRJ 493 AFOSRJ 947 AFOSRJ 709 AFOSRJ 827 AFOSRJ 838 AFOSRJ 914 AFOSRJ1140	AF AFOSR /0012/62 AFOSRJ 800	AF AFOSR /0017/62 AFOSRJ 674	AF AFOSR /0018/62 AFOSRJ1100 AFOSRJ1969	AF AFOSR /0019/62 AFOSR 4832 AFOSRJ 281 AFOSRJ 498 AFOSRJ1903	AF AFOSR /0021/62 AFOSRJ 404 AFOSRJ1074	AF AFOSR /0023/62 AFOSRJ 461 AFOSRJ1957	AF AFOSR /0024/62 AFOSRJ1908 AFOSRJ1909	AF AFOSR /0027/62 AFOSRJ1945	AF AFOSR /0028/62 AFOSRJ1623	AF AFOSR /0029/62 AFOSR 6712	AF AFOSR /0032/62 AFOSR 5285	AF AFOSR /0033/62 AFOSRJ 65 AFOSRJ 650 AFOSRJ 659 AFOSRJ 745 AFOSRJ1246 AFOSRJ1247 AFOSRJ1248 AFOSRJ1445	AF AFOSR /0035/62 AFOSRJ 482 AFOSRJ1938	AF AFOSR /0036/62 AFOSR 5208 AFOSRJ 167 AFOSRJ 625 AFOSRJ 744	AF AFOSR /0038/62 AFOSRJ1616 AFOSRJ1617	AF AFOSR /0042/62 AFOSR 4976 AFOSRJ 147 AFOSRJ 70	AF AFOSR /0043/62 AFOSRJ1273	AF AFOSR /0045/62 AFOSRJ1925 AFOSRJ1926 AFOSRJ1927 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AF EOAD /0030/61 AFOSRJ1092	AF EOAD /0017/62 AFOSRJ 179 AFOSRJ 215 AFOSRJ 216 AFOSRJ1974	AF EOAD /0077/62 AFOSRJ 200 AFOSRJ 201 AFOSRJ 261 AFOSRJ 313 AFOSRJ 470 AFOSRJ1422 AFOSRJ1423 AFOSRJ1424	AF EOAD -0177-63 ARL 63 177	
AF EOAD /0031/61 AFOSR 4092	AF EOAD /0018/62 AFOSRJ1470	AF EOAD /0079/62 AFOSRJ 940	AF EOAD /0001/63 AFOSRJ1315	
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COVERING PROBLEMS, FEB 1963. & COMMO COVERING SURFACES AND RATES CO2 AT 1200 DEGREES K, FINAL REPORT, CO2 FIXATION IN BRAIN AND LIVER COZMOZ, 1963	AFOSRJ 176 AFOSRJ1566 AFOSRJ1253 ARL 63 056 AFOSRJ 67 0950 AFOSRJ 63 049 AFOSRJ 63 148 AFOSRJ 63 130 AFOSRJ1270 AFOSRJ 4722 AFOSRJ 240 AFOSRJ 741 AFOSRJ 29 AFOSRJ 133 AFOSRJ1517 AFOSRJ1518 AFOSRJ 28 AFOSRJ1140 AFOSRJ 609 AFOSRJ 40 AFOSRJ 273 AFOSRJ 63 078 AFOSRJ 217 AFOSRJ 230 ARL 63 137 AFOSRJ 802 AFOSRJ 273 AFOSRJ 84 AFOSRJ 640 AFOSRJ1271 ARL 63 100 AFOSRJ 864 AFOSRJ 190 AFOSRJ 610 AFOSRJ 5194 AFOSRJ 104 AFOSRJ 5311 AFOSRJ1017 ARL 63 1754 AFOSRJ 123 AFOSRJ 4461 AFOSRJ 63 674 AFOSRJ 63 709 ARL 63 190 AFOSRJ 62 1007 AFOSRJ 497 AFOSRJ 4364 AFOSRJ 4385 AFOSRJ1248 AFOSRJ 183 ARL 63 209 AFOSRJ1247 AFOSRJ1509 AFOSRJ1336 AFOSRJ 63 029 AFOSRJ 63 195 AFOSRJ 66 AFOSRJ 475 AFOSRJ 4715 AFOSRJ1002 AFOSRJ 371 AFOSRJ 3189 AFOSRJ 1695 AFOSRJ1638 AFOSRJ1280 AFOSRJ 6644 AFOSRJ 63 286 AFOSRJ 4803 AFOSRJ 63 219 AFOSRJ 63 040 AFOSRJ1163 AFOSRJ 63 431 AFOSRJ1606 AFOSRJ 290 AFOSRJ 63 078 AFOSRJ 62 0925 AFOSRJ 4865 AFOSRJ1490 AFOSRJ 593 AFOSRJ 377 AFOSRJ 890 AFOSRJ 688 AFOSRJ 211 AFOSRJ 4697 AFOSRJ 62 0929 AFOSRJ1131 AFOSRJ 4731 AFOSRJ 63 314 AFOSRJ 63 075 AFOSRJ 62 0971 AFOSRJ 277 AFOSRJ 63 095 ARL 63 139 AFOSRJ 62 AFOSRJ 134 AFOSRJ1158 AFOSRJ1127 AFOSRJ1190 AFOSRJ 102 AFOSRJ100 AFOSRJ 756 AFOSRJ 752 AFOSRJ 24 AFOSRJ 753 AFOSRJ1165 AFOSRJ 63 606 AFOSRJ 4405 AFOSRJ 2415 AFOSRJ 346 ARL 63 177 AFOSRJ1597 AFOSRJ 63 457 AFOSRJ 374 AFOSRJ 63 0945 AFOSRJ 63 361 AFOSRJ 63 360	CRITERIA FOR ASSOCIATED LINEAR DIFFE CRITERIA FOR PEARSON TYPE III DISTRI CRITERION FOR A CLASS OF LINEAR SYST CRITERION FOR THE EXISTENCE OF INTER CRITICAL BRAIN SIZE AND LANGUAGE CRITICAL CASE IN DIFFERENTIAL EQUATI CRITICAL FIELD OF SUPERCONDUCTING MO CRITICAL REVIEW OF RECENT RESEARCH D CRITICAL REVIEW OF RECENT RESEARCH D CRITICAL SURVEY OF MAGNETOFLUID DYNA CRITICAL-FIELD MEASUREMENTS OF SUPER CRITIQUE OF THE PEARL THEORY OF THE CROSS MODULATION OF COSMIC NOISE & A CROSS SECTION FOR N ON N STR CROSS SECTION HELICAL ELECTRON BEAM CROSS SECTIONS FOR DISSOCIATIVE CROSS SECTIONS FOR INELASTIC SCATTER CROSS SECTIONS FOR THE DE-EXCITATION E CROSS SECTIONS FOR ZERO ACTIVATION E CROSS SECTIONS IN CARBON FOR LOW EN CROSS SECTIONS IN OPTICAL PUMPING CROSS SECTIONS IN THE NEIGHBORHOOD O CROSS SECTIONS OF Sn, Ta AND Au AT 2 CROSS SECTIONS OF THE ISOMERIC STATE CROSS SECTIONS OF YANG HILLS QUANTA CROSS SECTIONS PLASMA DIFFRACTION A CROSSSECTION EXAMINED 14 DEC 1962. 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FROM AN AXIALLY SLOTTED CYLINDER COATED WITH AN INHOMOGENEOUS LAYER OF STRESS IN A CYLINDER CONTAINING A FINNED SHAPED CYLINDER IMMERSED IN A TWO-DIMENSIONAL FLOW OF A FLUID WITH A FINNED SHAPED CYLINDER OF FINITE LENGTH, MAY 1963. BY A CHARGED CIRCULAR CYLINDER WITH A RADIALELY INHOMOGENEOUS DISTRIBUTION IN A CLOSED CYLINDER WITH VARIOUS NOSE SHAPES AT ZERO & THE FLOW OVER A CYLINDER, DEC 1962, & ELECTROMAGNETIC FIELD BY A DIELECTRIC CYLINDER, JUN 62 & THE THEORY OF SEA TIERING BY A DIELECTRIC CYLINDER, PART II, AUG 1962, & OF SEA ELECTRIC COATED ELLIPTICAL CYLINDERS, SEP 1962 & SLOT ON A DIELECTRIC CYLINDERS & WAVES BY PERFECTLY CONDUCTING RECTANGULAR CYLINDERS AND CONES UNDER EXTERNAL ON THE COLLAPSE TIME OF TRANSFER TO HEMISPHERE CYLINDERS AT LOW REYNOLDS NUMBERS. BETWEEN COAXIAL CYLINDERS IMPERSED IN A MAGNETIC FIELD ALONG INHOMOGENEOUS CYLINDERS, & CONVECTION IN BOTTOM N CILINDERS, JUN 1963. OF SELF-EXCITING CYLINDRICAL DISCHARGES AT LOW PRESSURE CYLINDRICAL DISCHARGES, DEC 1962, & A TERS OPTIMUM DESIGN OF CYLINDRICAL ELECTRON BOMBARDMENT HEAD MISSION DISTRIBUTION IN CYLINDRICAL LIGHT SOURCES, & THE F DISTILLED WATER THROUGH CYLINDRICAL PIPES, QUANTA ON FLOWS OF RADIATION THROUGH CYLINDRICAL PLASMA SHEATHS, AUG 1962 WAVE SCATTERING FROM A CYLINDRICAL SHELLS UNDER HYDROSTATIC OF STIFFENED CYLINDRICAL SHELLS UNDER INITIAL DYNAMIC BEHAVIOR OF CYLINDRICAL SHELLS UNDER INITIAL INCORPORATION OF 235U/ UCTION AND OXIDATION OF IONS OF CM2 AND NM WITH CM2 AND NM WITH CM2 AND T TELEVISION TOWER NEAR MEASUREMENT OF PARTICLE GNETHYDRODYNAMIC WAVE D ITS COMBINACON LANDAU STIMATE THE COLLISIONAL NATION WITH COLLISIONAL EL LA RNA-POLYMERASE NUCLEAIRE QUADRIPOLAIRE OF DISSIPATION OF GENICULATE NUCLEUS IN ALL SIZE, SURROUNDED BY PHALOCOS LIGHT-AND HE PAPER OF KLEIMAN AND ON CLOUDLESS DAYS AT SUPERFAST RECORDER FOR THE SYSTEM OF O IN THE ON EVENTS ASSOCIATED & RADIATION ON CLOUDLESS EXAMINATION OF INFORMATION CONFERENCE, IC SPECTRA OF JUPITERES ZR64-NB96 AND NB94-ZR96 O-TE50 AND TE23-SB21 PROBING OF ELECTRONIC OF HYPERBOLIC AN VECTOR BOSON FOR THE SYSTEMATICS OF BETA-ISOTOPIC SPIN IN THE PROBABLE EXAMPLE OF THE RES IN THE GROUND STATE SEARCH FOR TWO-QUANTUM THE BELDS ON FREE-INDUCTION DETECTION AND CORRECT G A RESEARCH IN COMPUTER N 1963 RESEARCH ON OF EXPERIMENTS AND COMMUNICATIONS CUMULATIVE ERRORS PRESENT, AND USSION OF PROBABILISTIC ODS, MAR 1963. F 1963. IN THE PHOTOCHEMICAL NO RECOMBINATION IN THE FORMATEFLASH-PHOTOFLUOR HOMOGENEOUS GAS-PHASE I SOME AMPLITUDE THERMAL STOICHEMISTRY THERMAL SOMET APINE LTME THERMAL LME HALOANTHRAQUINONE STUDIES ON THE ACIDS, THE THERMAL TATION AND J FUNCTIONAL OF SOLAR ENERGY BY THE RADIATION DETECTION BY ATIONS DURING A FORRUSH LANGUAGE FOR NATURAL SEISMIC MOTION OF THE WITHERN NEW YORK STATE, C CRITICAL ACTIVITY DURING DEEP SLEEP. BRAIN STEM ELT RIGULAT NUCLEUS DURING DEEP SLEEP & RELATION TO LATERAL G DURING DEEP SLEEP AFTER REMOVAL OF NUCLEUS DURING DEEP SLEEP FORMATION AND LATERAL GE T 1962. STUDIES IN ABRASKA, DEC 1962. RES D UNVALUATION PAR INTERACTIF. CRYSTAL AND YOUNGS NUCLEUS & RELAXATION AT IONS INDUCED BY LATTICE EFFECTS ON ION-INDUCED EFFECTS OF ION-INDUCED EFFECTS OF ION-INDUCED WITH OTHER LATTICE OF THE DEPARTMENT OF MISSILE ATTACK VOL. I. CONFIGURATION HAVE GIN SUPPLY AND CHARGE POINT ANTS WITH EXTREME METAL TH VALUES THAT ARE BOTH A POLYNOMIAL FIT TO THE IN THE KIDNEY DURING DEFINITION OF FIELD OF TY PRINCIPLE TWO

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- OPTICAL ACTIVITY DURING DETACHMENT OF ELECTRONS FROM NEGATIVELY IONIZED AND PHOENIX 29, 1 ATTEMPTS TO DETECT LYCOPERSINE IN HIGHER PLANTS, SIGNALS AND NOISE COMMUNICATION AND OF THE PROBABILITY OF APPLICATIONS TO SEISMIC ON UNDERGROUND NUCLEAR EXPERIMENT ON MISSILE LORIDE CRYSTAL RADIATION PATTERN RECOGNITION AND SING ASSEMBLANT MESSAGE MARITIME TELETYPE STUDY OF MODULATION AND THE LOWER IONOSPHERE 555P/1 PEI STATEOPTICAL PREDICTION BY 1.55 DEGREE STREAMS USING HIGH FREQU OF MOLECULAR OXYGEN & USES OF INFRARED TARGET SCATTER CROSS SECTION LAUNCH TRENDS TO PREDICTION AND PHOTOCONDUCTIVE IMAGE CH ALTIMETER WATER VAPOR A SPINPROJECTED SINGLE ANALYSIS OF SINGLE FOR A PROJECTED SINGLE AND MECHANISMS OF STRIUM LARSA PHYTOCOPIN /FSM/ URES AND ELEGMICROWAVE HYDRATING AND NITROUS IN THE MECHANISM OF ICS & SIGNIFICANCE OF 2 DETERMINATION OF THE DEFLAGRATION AND OBLIQUE STRUCTURE OF GASEOUS GENERATION OF LAMINAR THE ONSET OF ALTITUDE NUCLEAR SCATTER IN GASEOUS TEMPERATURE OF NUCLEAR PHOTON CAUSED BY NUCLEAR HE ISOLATED & ATROPINE EXCHANGE BETWEEN IODINE AND ALUMINUM & DEUTERIUM TO THE GALACTIC RINGGLUC ENERGY PROTON HIGH-ENERGY DEUTERON-DEUTERON CONNECTION TO THE THEORY OF THE DETERMINATION OF THE NUCLEONIC AND NEUTRON HIGH-ENERGY DEUTERON ON BY 180 DEGREE ELECT WITH BONDING WHICH 1 FEB 1963. THE TERAS ME, VINYLACETYLENE, AND OF SOME ARC-HEATED WIND TUNNEL MICROWAVE SEMICONDUCTOR BETWEEN DEUTERIUM AND JUL 1962. DISSOCIATION STUDIES IN VITY OF SEMICONDUCTING NENTS ON SEMICONDUCTING VOIES OF SEMICONDUCTING ORY MECHANISMS FROM ENERGY OF OMBLELECTRON AND ROTATIONS OF FOR THE DISSOCIATION OF ELECTRIC MOMENTS OF TWO IES. PART I, DICHLORO, STUDIES. PART II, DICHLORO, DIBROMO DIODOMETHANE, YSTAL STRUCTURE OF 2,5- IODINE AND CIS-AND TRANS- 2,7-DIMETHYL-AND 2,7- ION /1962/ THE EFF OF DI CHROMIC TIME AND INTENSITY DIFFEREN RELATIONS BETWEEN AUG 1962. 1. UND AL, GA, I UND SB IRE 0-80-PHASEN ZWISCHEN A-METALL OF A & DIFFRACTION AT DIELECTRIC AND CONDUCTING APERTURES OF RADIATION FROM A DIELECTRIC COATED CUBE, FEB 1963. AN ARBITRARY SLOT ON A DIELECTRIC COATED ELLIPTIC CYLINDER, MAGNETIC FIELDS ON THE DIELECTRIC CONSTANT AND LOSS OF THE ING INTO & LONGITUDINAL DIELECTRIC CONSTANT OF A PLASMA, TAK DERIVATION OF THE DIELECTRIC CONSTANT OF AN IMPERFECT ED LIQUIDS. II. CYANOACG DIELECTRIC CONSTANT OF HYDROGEN-BOND ED LIQUIDS. III. N. & DIELECTRIC CONSTANT OF HYDROGEN-BOND ATISTICAL THEORY OF THE DIELECTRIC CONSTANT OF IMPERFECT GAS CHROMAGRAPHIC WAVES BY A DIELECTRIC CYLINDER, DEC 1962. & THE BORY OF SCATTERING BY A DIELECTRIC CYLINDER, PART II AUG 5 THE IMPORTANCE OF THE DIELECTRIC FACTOR, 1963. & ANION LIGHT SCATTERING FROM DIELECTRIC FILM LASER MIRRORS. I ELECTRIC FIELD ON THE DIELECTRIC LOSS OF THE LIQUID CRYSTA RUCS A PROPOSED SET OF DIELECTRIC PROPERTIES OF IONIC CER POU ON IONIC CRYSTALS, DIELECTRIC PROPERTIES, 10 SEP 1962. O WITH AN ISOMORPHOUS DIELECTRIC SHEATHS, DEC 1962. & COAT WAVES ON AN ANISOTROPIC DIELECTRIC SLAB, OCT 1962. & THE ETATION AS AN IMPERFECT DIELECTRIC SLAB, 31 MAY 1963. & VEG HONICALLY FIREWAVING DIELECTRIC TENSOR, 1962. & WITH A HA FOR THE GENERATION OF DIELECTRIC TUBE RESONATOR, A DEVICE CHARACTERISTICS OF DIELECTRIC WAVEGUIDE MODES, JUL 1961. INVESTIGATION OF THE DIELECTRIC WAVEGUIDE PROPAGATION BY ANGLELECTRICITY, & HIGH DIELECTRIC INSTANT MATERIALS AND PE WAVES FROM A DIELECTRIC PLANE LAYER, VARYING DIELECTRICS BY NUCLEAR RADIATION. I IN ELFEMIR IRRADIATED DIELECTRIC RELEASE OF SPACE CHARGE ILITIES OF HARDY ENCON- DIFFERENTIABILITY OF ABSOLUTE PROBAB DYNAMICAL UNIFORMITY AND DIFFERENTIABILITY OF SOLUTIONS OF OR THEORY OF THE DIFFERENTIAL CALCULUS OF VECTOR-VALU IN A PARABOLIC DIFFERENTIAL EQUATION PART II. F SOLUTIONS OF A DIFFERENTIAL EQUATION WITH NON-UNIQ ON AN ORDINARY DIFFERENTIAL EQUATION.
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- THE CRITICAL CASE IN DIFFERENTIAL EQUATIONS  
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