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Publications of LASL Research 1978

University of California

LOS ALAMOS SCIENTIFIC LABORATORY

Post Office Box 1663 Los Alamos, New Mexico 87545

UNIVERSITY OF CALIFORNIA

Publications of LASL Research 1978

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INTRODUCTION

The Los Alamos Scientific Laboratory (LASL), which is operated for the U.S. Department of Energy by the University of California, was founded in 1943 at the site of the Los Alamos Ranch School, a boys' preparatory school in the mountains of northern New Mexico, as part of the wartime Manhattan Project. It had a single assignment--to create the world's first nuclear fission bombs. Success in that task, one of the greatest scientific and technological achievements of all time, was followed by equal success in developing the first thermonuclear weapons. Since 1952, the Laboratory has diversified its programs, and, while still serving as one of the nation's two development centers for nuclear weapons, LASL now devotes about one half of its total effort to 'unclassified' research exploring several peaceful applications of nuclear, conventional and alternative forms of energy. LASL research covers a broad spectrum, ranging from medium and low-energy nuclear physics research to programs involving medical and biological effects of radiation and basic work in molecular and cellular biology.

Major nonweapons research activities at Los Alamos involve energy research in fields such as superconducting electrical energy transmission and storage, solar and geothermal energy development, laser fusion research and laser isotope separation, and controlled thermonuclear research using magnetic confinement.

Facilities used in such research at the Laboratory include specialized laboratories; a nuclear reactor designed for a variety of experiments; particle accelerators such as the 24-MeV, three-stage Van de Graaff particle accelerator and the 27-MeV electron accelerator designed to produce a very intense, very short burst of x rays for high-speed flash radiography. At LAMPF, where physics and biomedical experiments are carried out, and where production of a variety of radioisotopes for medical use is under way, an 800-MeV, 1-mA-beam linear accelerator is used to produce beams of protons, mesons, and other nuclear particles with intensities up to 10,000 times greater than those available elsewhere. Another of the Laboratory's facilities, Scyllac, is a toroidal theta-pinch device for controlled thermonuclear research involving magnetic confinement of hot plasmas for fusion research. A central Computing Facility with two Cray-1s, four CDC 7600s, two CDC 6600s, and two CYBER 70s assists in the Laboratory's research.

LASL, as of 1978, employed about 6,300 persons, about one-third of whom are scientists and engineers. The total operating costs--excluding construction--of the Laboratory are about \$275 million per year. The value of the DOE-owned buildings and equipment at Los Alamos is about \$650 million.

PREFACE

The LASL Libraries' continuing program of locating, recording, and announcing publications of LASL-sponsored research has resulted in the previous publications: "Selected Bibliography of Publications of LASL Research, 1957-1962," (LAMS-2895 and supplement), "Publications of LASL Research," for each of the years 1963 through 1966, "Publications of LASL Research, 1967-1971," (LA-5400-MS), "Publications of LASL Research, 1972-1976," (LA-6755-MS, Vol. 1 and Vol. 2) and "Publications of LASL Research, 1977" (LA-7248-MS).

This bibliography is a compilation of unclassified publications of work done at the Los Alamos Scientific Laboratory for 1978. Papers published in 1978 are included regardless of when they were actually written. Publications received too late for inclusion in earlier compilations have also been listed. Declassification of previously classified reports is considered to constitute publication. All classified issuances are omitted--even those papers, themselves unclassified, which were published only as part of a classified document. If a paper was published more than once, all places of publication are included.

The bibliography includes Los Alamos Scientific Laboratory reports, papers released as non-LASL reports, journal articles, books, chapters of books, conference papers whether published separately or as part of conference proceedings issued as books or reports, papers published in congressional hearings, theses,

and U.S. patents. Publications by LASL authors that are not records of Laboratory-sponsored work are included when the Library becomes aware of them.

The arrangement in each bibliographical citation is title first, place(s) of publication indented, then authors, further indented. The CHEMICAL ABSTRACTS abbreviation is used for journal citations except for the capitalization. The group designations given after the authors' names indicate the groups with which the authors were associated at the time the papers were written. Parenthetical information includes report and reprint numbers, book call numbers, and patent numbers. The parentheses indicate the information by which Los Alamos borrowers may obtain the material from the LASL Libraries.

The entries are arranged in sections by broad subject categories. Within each section they are alphabetical by title. All types of publications are interfiled. Some previously used categories have no entries in this compilation. These categories are noted in the Table of Contents by the word NONE in place of a page number.

The author and numerical indexes refer to the item numbers, which consist of a number designating the section, followed by a dash and a number for the alphabetic arrangement of the item within the section. In the numerical index, the LA and LA-xxxx-MS numbers of formal reports are interfiled.

There is a Keyword-in-Context index in microfiche format in a pocket at the end of the volume.

Most of the reports listed in this publication are available for sale from

National Technical
Information Service
U.S. Department of Commerce
Springfield, VA 22151

or on request by government agencies and their contractors from

Technical Information Center
U.S. Department of Energy
P. O. Box 62
Oak Ridge, TN 37830

Reprints of some journal articles are available as long as the supply lasts from the first author listed. Address requests to the first author at

Los Alamos Scientific
Laboratory
University of California
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Los Alamos, NM 87545

This bibliography has been prepared by the LASL Library Services Group, ISD-4, from the records of the Classification Office, from abstracting and indexing journals, and from supplementary library files. Inquiries regarding any of the materials included should be directed to the Technical Processes Section of the LASL Libraries.

The Libraries gratefully acknowledge the assistance of members of LASL's Computer Science & Services Division and the Administrative Automatic Data Processing Department for assistance with the computerized system for handling publication information.

1. APPLICATIONS OF EXPLOSIONS

1-1
ROW CHARGE CRATERING CALCULATIONS.
LASL,
1978, 23P. (LA-7303-MS)
MILLER, L. W. (J-15)
MATUSKA, WALTER (J-15)

2. BIOLOGY AND MEDICINE

2-1
ACCELERATORS FOR PION CLINICAL
FACILITIES.
TIC,
1976. 16P. MN (LA-UR-76-2083)
ALSO PUBLISHED IN:
INT. J. RADIAT. ONCOLOGY BIOL. PHYS.,
V.3, P.293-7. 1977.
KNAPP, EDWARD A. (MP-3)

2-2
ACTION OF HEPARIN ON MAMMALIAN NUCLEI.
II. CELL - CYCLE - SPECIFIC CHANGES IN
CHROMATIN ORGANIZATION CORRELATE
TEMPORALLY WITH HISTONE H1
PHOSPHORYLATION.
BIOCHIM. BIOPHYS. ACTA,
V.517, P.486-99. 1978.
HILDEBRAND, CARL E. (H-9)
TOBEY, ROBERT A. (H-9)
GURLEY, LAWRENCE R. (H-9)
WALTERS, RONALD A. (H-9)

2-3
AGE RESPONSE FOR CHO CELLS EXPOSED
TO NEGATIVE PIONS.
RADIAT. RES.,
V.76, P.219-23. 1978.
RAJU, MUDUNDI R. (H-10)
AMOLS, HOWARD I. (MP-3)
CARPENTER, SUSAN G. (H-4)
TOBEY, ROBERT A. (H-9)
WALTERS, RONALD A. (H-9)

2-4
APPLICATIONS OF OPTIMAL CONTROL
THEORY TO IMMUNOLOGY.
TIC,
1977. 23P. MN (LA-UR-78-34)
PERELSON, ALAN S. (T-10)

2-5
AUTOMATED CANCER - CELL SORTING AND
ANALYSIS, JUNE 1-NOVEMBER 30, 1977.
LASL,
1978. 30P. (LA-7076-PR)
MULLANEY, PAUL F. (H-10)
STEINKAMP, JOHN A. (H-10)
SALZMAN, GARY C. (H-10)
ZVITRA, ZITA V. (H-10)
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2-6
AUTOMATED CANCER - CELL SORTING AND
ANALYSIS, DECEMBER 1, 1977-MAY 31,
1978.
LASL,
1978. 36P. (LA-7412-PR)
MULLANEY, PAUL F. (H-10)
STEINKAMP, JOHN A. (H-10)
SALZMAN, GARY C. (LS-2)
CROWELL, JOHN M. (H-10)
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2-7
AUTORADIOGRAPHIC TECHNIC FOR
PLUTONIUM, POLONIUM, AND
PROMETHIUM TISSUE SECTIONS.
J. HISTOTECH.,
V.1, P.81-3. 1978.
CARPENTER, SUSAN G. (H-4)

2-8
BIOLOGICAL EFFECTS OF NEGATIVE
PIONS.
TIC,
1976. 33P. MN (LA-UR-76-2529)
ALSO PUBLISHED IN:
INT. J. RADIAT. ONCOLOGY BIOL. PHYS.
V.3, P.327-34. 1977.
RAJU, MUDUNDI R. (H-10)
AMOLS, HOWARD I. (MP-3)
BAIN, ELVIRA (H-4)
CARPENTER, SUSAN G. (H-4)
DICELLO, JOHN F., JR. (MP-3)
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WALTERS, RONALD A. (H-9)

2-9
BIOMEDICAL AND ENVIRONMENTAL
RESEARCH PROGRAM OF THE LASL HEALTH
DIVISION, JANUARY - DECEMBER 1977.
LASL,
1978. 193P. (LA-7254-PR)
PETERSEN, DONALD F. (H-DOT) COMP.
SULLIVAN, ELIZABETH M. (H-DO) COM.

2-10
CALCULATION OF DOSIMETRY PARAMETERS
FOR FAST NEUTRON RADIOTHERAPY.
LASL,
1978. 408P. THESIS, TEXAS
AGRICULTURAL AND MECHANICAL
UNIV., COLLEGE STATION, TX,
1978. (LA-7288-T)
WELLS, ALAN HARVEY

2-11
CARBON -13 AND HYDROGEN -1
NUCLEAR MAGNETIC RESONANCE
STUDIES OF BRADYKININ AND
SELECTED PEPTIDE FRAGMENTS.
BIOCHEMISTRY,
V.17, P.2270-7. 1978.
LONDON, ROBERT E. (CNC-4)
STEWART, JOHN M.
CANN, JOHN R.
MATWIYOFF, NICHOLAS A. (CNC-4)

2-12
CARBON -13 NUCLEAR MAGNETIC
RESONANCE STUDY OF THE CIS-
TRANS ISOMERISM IN X-PRO-PRO
TRIPEPTIDES.
BIOCHEMISTRY,
V.17, P.2277-83. 1978.
LONDON, ROBERT E. (CNC-4)
MATWIYOFF, NICHOLAS A. (CNC-4)
STEWART, JOHN M.
CANN, JOHN R.

2-13
CELL - CYCLE - SPECIFIC CHROMOSOME
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CULTURED CHINESE HAMSTER CELLS
WITH 4'-((9-ACRIDINYL)-
AMINO)METHANESULPHON-M-
ANISIDIDE-HCL.
J. NAT. CANCER INST.,
V.60, P.1155-61. 1978.
DEAVEN, LARRY L. (H-9)
OKA, MELVIN S. (H-10)
TOBEY, ROBERT A. (H-9)

2-14
CHARACTERIZATION OF NORMAL AND
NEOPLASTIC MAMMALIAN CELLS BY
MULTIPARAMETER FLOW-SYSTEM
ANALYSIS METHODS.
DETECTION AND PREVENTION OF
CANCER. 1976. 3RD INT. SYMP., NEW
YORK. PROC. PREVENTION AND
DETECTION OF CANCER. H.E. NIEBURGS,
ED. PT.2, V.1, P.1081-9. DEKKER,
1977. (616.99/D479P)
ALSO PUBLISHED IN:
TIC,
1976. 11P. MN (LA-UR-76-919)
STEINKAMP, JOHN A. (H-10)
HANSEN, KAREN M. (H-10)
CRISSMAN, HARRY A. (H-10)

2-15
COBALT RETENTION PATTERNS IN MICE AS
INFLUENCED BY ADMINISTERED DOSE.
LASL,
1978. 4P. (LA-7205-MS)
THOMAS, ROBERT G. (H-4)
DRAKE, GLESSIE A. (H-4)

2-16
COMBINATION OF SENSITIZERS WITH HIGH
LET RADIATIONS.
BR. J. CANCER,
V.37, SUPPL.3, P.189-93. 1978.
RAJU, MUDUNDI R. (H-10)
AMOLS, HOWARD I. (MP-3)
CARPENTER, SUSAN G. (H-4)

2-17
COMPARISON OF SEVERAL COHERENT
OPTICAL TRANSFORM PROCESSING
SYSTEMS FOR CERVICAL CANCER
DETECTION.
LASER AND ELECTROOPTICAL SYSTEMS.
1978. OSA/IEEE CONFERENCE,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, NO.WGG3,
P.58. OSA, 1978.
(621.36/L343E 1978)
PERNICK, B. P.
WOHLERS, M. R.
MENDELSON, J.
JOST, S.
HEROLD, R.
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2-18
CURRENT STATUS OF IMMUNOLOGIC
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LASL,
1978. 15P. (LA-7371-SR)
GROSS, ROBERT L. (H-4)

2-19
DATA ACQUISITION AND DISPLAY
FOR A HIGH - SPEED CELL SORTER.
COMPUT. BIOMED. RES.,
V.11, P.77-88. 1978.
SALZMAN, GARY C. (H-10)
HIEBERT, RICHARD D. (E-3)
CROWELL, JOHN M. (H-10)

2-20
DEGRADATION OF NUCLEIC ACID IN
AQUEOUS SOLUTION BY IONIZING
RADIATION. III. THE CORRELATION OF
RADIATION DAMAGE WITH CHANGE IN
MELTING TRANSITION - MODEL
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BIOPHYS. CHEM.,
V.8, P.123-34. 1978.
HAYES, F. NEWTON (H-9)
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HOLLSTEIN, ULRICH
GOAD, WALTER B., JR. (T-10)
DE LISI, CHARLES P. (T-10)

2-21
DELAYED RADIATION INJURY OF
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LASL,
1978. 4P. (LA-6717-MS, VOL.2)
SPALDING, JOHN F. (H-4)
ARCHULETA, RUBEN F. (H-4)
PRINE, JAMES R. (H-4)

2-22
DEPHOSPHORYLATION OF HISTONES H1 AND
H3 DURING THE ISOLATION OF METAPHASE
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NUCLEIC ACIDS RES.
V.5, P.3195-208. 1978.
D'ANNA, JOSEPH A. (H-9)
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2-23
DETAILED STUDIES ON THE APPLICATION OF
THREE FLUORESCENT ANTIBIOTICS FOR DNA
STAINING IN FLOW CYTOMETRY.

TIC.
1977. 24P. (LA-UR-77-2748)
CRISSMAN, HARRY A. (H-10)
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2-24
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DECEMBER 31, 1977.

LASL.
1978. 7P. (LA-7247-PR)
STEINKAMP, JOHN A. (H-10)
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LASL.
1978. 23P. (LA-7300-PR)
HOFFMAN, ROBERT A. (H-10)
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CELL CHARACTERIZATION AND KINETIC
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LASL.
1978. 23P. (LA-7583-PR)
SALZMAN, GARY C. (H-10)
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JOHNSON, TOD S. (H-10)

2-27
DEVELOPMENT OF A PROTON RADIOGRAPHIC
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LOCALIZATION OF SOFT - TISSUE
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LASL.
1978. 7P. (LA-7107-MS)
HANSON, KENNETH M. (MP-3)

2-28
DOMINANT LETHAL ASSAY FOR BIS-DINITRO
PROPYL-FORMAL, BIS-DINITRO-PROPYL-
ACETAL AND KERIMIDE 601 RESIN.

LASL.
1978. 5P. (LA-7208-MS)
WILSON, JULIE S. (H-4)
SMITH, DAVID M. (H-4)

2-29
DOSE OUTSIDE THE TREATMENT
VOLUME FOR IRRADIATION WITH
NEGATIVE PIONS.

PHYS. MED. BIOL.
V.23, P.385-96. 1978.
AMOLS, HOWARD I. (MP-3)
BRADBURY, JAMES N. (MP-3)
DICELO, JOHN F., JR. (MP-3)
HELLAND, JEROME A. (MP-3)
KLIGERMAN, MORTON M. (DIR/ADRT)
LANE, THOMAS F. (WX-5)
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2-30
EFFECT OF NEGATIVE PIONS ON CELLS PLACED
ON GLASS AND PLASTIC SURFACES.

RADIATION RES.
V.75, P.439-42. 1978.
RAJU, MUDUNDI R. (H-10)
AMOLS, HOWARD I. (MP-3)
ROBERTSON, JAMES B. (H-10)

2-31
EFFECTIVE GAMMA OF TURBULENCE AND
GROWTH RATE OF TURBULENCE ENERGY
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LASL.
1978. 5P. (LA-7594-MS)
BINSTOCK, JUDITH (TD-2)

2-32
ELECTROTHERMAL TECHNIQUE FOR THE
ALTERATION OF CORNEAL CURVATURE.

LASL.
1978. 7P. (LA-7155-MS)
DOSS, JAMES D. (MP-3)
HUTSON, RICHARD L. (MP-3)
ALBILLAR, JOSE I. (MP-3)

2-33
ELEVATED CELL - SURFACE HYALURONATE
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EXP. CELL RES.
V.114, P.153-7. 1978.
KRAEMER, PAUL M. (H-9)
BARNHART, BENJAMIN J. (H-9)

2-34

EVOLUTIONARY DISTANCE AND SECONDARY
STRUCTURE FOR BIOMOLECULES.

LASL

1978. 21P. (LA-7153-MS)

WATERMAN, MICHAEL S. (Q-12)

SMITH, TEMPLE F. (T-7)

2-35

FLOW - SYSTEMS ANALYSIS AND
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IN ASCITES AND SOLID TUMORS.

DETECTION AND PREVENTION OF
CANCER. 1976. 3RD INT. SYMP., NEW
YORK. PROC. PREVENTION AND

DETECTION OF CANCER. H.E. NIEBURGS,
ED. PT. 1, V. 1, P. 79-90. DEKKER, 1977.
(616.99/D479P)

CRISSMAN, HARRY A. (H-10)

KISSANE, RICHARD J. (H-10)

WANEK, PATSY L. (H-10)

OKA, MELVIN S. (H-10)

STEINKAMP, JOHN A. (H-10)

2-36

FLOW ANALYSIS AND SEPARATION
OF EXFOLIATED RESPIRATORY
TRACT CELLS.

TIC. 1977. 27P. MN (LA-UR-77-659)

ALSO PUBLISHED IN:

PULSE CYTOPHOTOMETRY.

1978. 3RD INTERNATIONAL SYMPOSIUM,
VIENNA. PROCEEDINGS, P. 175-85.

EUROPEAN PRESS, 1978.

STEINKAMP, JOHN A. (H-10)

HANSEN, KAREN M. (H-10)

WILSON, JULIE S. (H-4)

SALZMAN, GARY C. (H-10)

2-37

FLOW CYTOMETRY IN BIOLOGY AND
MEDICINE.

LASL

MINI-REVIEW. 1978. 4P. (LASL-78-22)

STEVENSON, ANITA (H-10)

2-38

FLOW MICROFLUOROMETRIC AND
SPECTROPHOTOFUOROMETRIC
ANALYSIS OF DNA STAINING IN
MAMMALIAN CELLS.

TIC

1977. 31P. MN (LA-UR-77-677)

CRISSMAN, HARRY A. (H-10)

STEVENSON, ANITA (H-10)

KISSANE, RICHARD J. (H-10)

2-39

GENERATION OF AEROSOLS OF
CARCINOGENIC AROMATIC AMINES.

AM. IND. HYG. ASSOC. J.,

V. 39, P. 287-94. 1978.

RAPPAPORT, STEPHEN M. (H-5)

GETTEMY, DONALD J. (H-5)

2-40

HEAVY PARTICLE COMPARATIVE STUDY.
PART I. DEPTH DOSE DISTRIBUTIONS.

BR. J. RADIOL.

V. 51, P. 699-703. 1978.

RAJU, MUDUNDI R. (H-10)

AMOLS, HOWARD I. (MP-3)

DICELLO, JOHN F., JR. (MP-3)

HOWARD, J.

LYMAN, J. T.

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2-41

HEAVY PARTICLE COMPARATIVE STUDY.
PART II. CELL SURVIVAL VERSUS DEPTH.

BR. J. RADIOL.

V. 51, P. 704-11. 1978.

RAJU, MUDUNDI R. (H-10)

BAIN, ELVIRA (H-10)

CARPENTER, SUSAN G. (H-4)

COX, ROBERT A. (H-10)

ROBERTSON, JAMES B. (H-10)

2-42

HEAVY PARTICLE COMPARATIVE STUDY.
PART III. OER AND RBE.

BR. J. RADIOL.

V. 51, P. 712-9. 1978.

RAJU, MUDUNDI R. (H-10)

AMOLS, HOWARD I. (MP-3)

BAIN, ELVIRA (H-10)

CARPENTER, SUSAN G. (H-4)

COX, ROBERT A. (H-10)

ROBERTSON, JAMES B. (H-10)

2-43

HEAVY PARTICLE COMPARATIVE STUDY.
PART IV. ACUTE AND LATE REACTIONS.

BR. J. RADIOL.

V. 51, P. 720-7. 1978.

RAJU, MUDUNDI R. (H-10)

CARPENTER, SUSAN G. (H-4)

2-44

HISTAMINE RELEASE DUE TO
BIVALENT PENICILLOYL HAPTENS.
CONTROL BY THE NUMBER OF CROSS-
LINKED IGE ANTIBODIES ON THE
BASOPHIL PLASMA MEMBRANE.

J. IMMUNOL.

V. 121, P. 354-8. 1978.

DEMBO, MICAH (T-10)

GOLDSTEIN, BYRON (T-10)

SOBOTKA, ANNE K.

LICHTENSTEIN, LAWRENCE M.

2-45
HISTONE PHOSPHORYLATION AND
CHROMATIN STRUCTURE IN SYNCHRONIZED
MAMMALIAN CELLS.

CELL CYCLE REGULATION.
J. R. JETER, ED. P.37-60.
ACADEMIC, 1978.
(574.87/C393C)

GURLEY, LAWRENCE R. (H-9)
TOBEY, ROBERT A. (H-9)
WALTERS, RONALD A. (H-9)
HILDEBRAND, CARL E. (H-9)
HOHMANN, PHILIP G. (H-9)
D'ANNA, JOSEPH A. (H-9)
BARHAM, STEVEN S. (H-9)
DEAVEN, LARRY L. (H-9)

2-46
HISTONE PHOSPHORYLATION AND
CHROMATIN STRUCTURE DURING
MITOSIS IN CHINESE HAMSTER
CELLS.

EUR. J. BIOCHEM.,
V.84, P.1-15. 1978.
GURLEY, LAWRENCE R. (H-9)
D'ANNA, JOSEPH A. (H-9)
BARHAM, STEVEN S. (H-9)
DEAVEN, LARRY L. (H-9)
TOBEY, ROBERT A. (H-9)

2-47
HISTORICAL INTRODUCTION
TO THEORETICAL IMMUNOLOGY.
THEORETICAL IMMUNOLOGY.
GEORGE I. BELL, ED. CHAPT.1,
P.3-41. MARCEL DEKKER,
1978. (616.97/B433T)
BELL, GEORGE I. (T-10)
PERELSON, ALAN S. (T-10)

2-48
IN VITRO MUTAGENICITY TESTING.
1. KERIMIDE 601 RESIN, SYLGARD 184
ENCAPSULATING RESIN, AND SYLGARD
184 CURING AGENT.

LASL,
1978. 4P. (LA-7437-MS)
WANG, SUSIE Y. (H-4)
SMITH, DAVID M. (H-4)

2-49
INVESTIGATION OF THE MICRODOSIMETRIC
CHARACTERISTICS OF BROAD,
THERAPEUTIC BEAMS OF NEGATIVE
PIONS AT LAMPF.

TIC
1978. 13P. MN (LA-UR-78-1205)
DICELO, JOHN F., JR. (MP-3)
ZAIDER, MARCO (MP-3)

2-50
KINETIC RESPONSE OF CULTURED
CHINESE HAMSTER CELLS TO TREATMENT
WITH 4'-((9-ACRIDINYL)-AMINO)
METHANESULPHON-M-ANISIDIDE-HCL.

J. NAT. CANCER INST.,
V.60, P.1147-53. 1978.
TOBEY, ROBERT A. (H-9)
DEAVEN, LARRY L. (H-9)
OKA, MELVIN S. (H-10)

2-51
LATE BIOLOGICAL EFFECTS OF IONIZING
RADIATION AS INFLUENCED BY DOSE,
DOSE RATE, AGE AT EXPOSURE, AND
GENETIC SENSITIVITY TO NEOPLASTIC
TRANSFORMATION.

TIC
1978. 11P. MN (LA-UR-78-681)
SPALDING, JOHN F. (H-4)
PRINE, JAMES R. (H-4)
TIETJEN, GARY L. (Q-12)

2-52
LIGHT SCATTER ANALYSIS OF
MICROALGAE. CORRELATION OF SCATTER
PATTERNS FROM PURE AND MIXED
ASYNCHRONOUS CULTURES.

BIOPHYS. J.,
V.22, P.29-36. 1978.
PRICE, BRANDON J. (H-10)
KOLLMAN, VICTOR H. (H-11)
SALZMAN, GARY C. (H-10)

2-53
LIMITATIONS OF THE JERNE HEMOLYTIC
PLAQUE TECHNIQUE.

THEORETICAL IMMUNOLOGY,
GEORGE I. BELL, ED. CHAPT.4,
P.89-119. MARCEL DEKKER, 1978.
(616.97/B433T)
GOLDSTEIN, BYRON (T-10)

2-54
LOS ALAMOS SCIENTIFIC
LABORATORY ION LINEAR
ACCELERATOR PROGRAM.

TIC
1976. 9P. MN (LA-UR-76-2082)
ALSO PUBLISHED IN:
INT. J. RADIAT. ONCOLOGY BIOL. PH.
V.3, P.383-5. 1977.
KNAPP, EDWARD A. (MP-3)
SWENSON, DONALD A. (MP-14)

2-55
LYMPHOCYTE TRAFFIC PATTERNS AND
CELL - CELL INTERACTIONS.
THEORETICAL IMMUNOLOGY,
GEORGE I. BELL, ED. CHAPT.12,
P.341-75. MARCEL DEKKER, 1978.
(616.97/B433T)
BELL, GEORGE I. (T-10)

2-56

MODELS OF THE EVENTS RESPONSIBLE
FOR ANTIBODY PRODUCTION BY
B LYMPHOCYTES.
THEORETICAL IMMUNOLOGY.
GEORGE I. BELL, ED. CHAPT.7.
P.171-213. MARCEL DEKKER, 1978.
(616.97/B433T)
PERELSON, ALAN S. (T-10)

2-57

MULTIPARAMETER ANALYSIS AND SORTING
OF MAMMALIAN CELLS.
YEAR BOOK OF CANCER. 1975.
P.559-61. (616.99/Y39C 1975)
ALSO PUBLISHED IN:
EXP. CELL RES., 1974.
V.84, P.15-23.
STEINKAMP, JOHN A. (H-10)
ROMERO, ANGELA (H-10)
HORAN, PAUL K. (H-10)
CRISSMAN, HARRY A. (H-10)

2-58

NEW METHODOLOGY FOR MEASURING
DAMAGE TO RESPIRATORY TRACT
CELLS USING FLOW - SYSTEM
CELL - ANALYSIS TECHNIQUES.
SENSING OF ENVIRONMENTAL
POLLUTANTS. 1978. JOINT CONF.
4TH, NEW ORLEANS. PROC., P.523-6.
AMERICAN CHEMICAL SOC., 1978.
STEINKAMP, JOHN A. (H-10)
HANSEN, KAREN M. (H-10)
WILSON, JULIE S. (H-4)
SALZMAN, GARY C. (H-10)

2-59

OPTIMAL STRATEGIES IN
IMMUNOLOGY. II. B MEMORY
CELL PRODUCTION.
J. MATH. BIOL.,
V.5, P.213-56, 1978.
PERELSON, ALAN S. (T-10)
MIRMIRANI, MAJDEDIN
OSTER, GEORGE F.

2-60

PICOSECOND AND STEADY STATE,
VARIABLE INTENSITY AND VARIABLE
TEMPERATURE EMISSION SPECTROSCOPY
OF BACTERIORHODOPSIN.
BIOPHYS. J.,
V.23, P.383-93. 1978.
SHAPIRO, STANLEY L. (AP-4)
CAMPILLO, ANTHONY J. (AP-4)
LEWIS, A.
PERREAULT, G.
SPOONHOWER, J.
CLAYTON, R.
STOECKENIUS, W.

2-61

PICOSECOND PULSE TRAIN STUDY OF EXCITON
DYNAMICS IN PHOTOSYNTHETIC MEMBRANES.
BIOPHYS. J.,
V.24, P.347-59. 1978.
GEACINTOV, N. E.
SWENBERG, C. E.
CAMPILLO, ANTHONY J. (AP-4)
HYER, RONALD C. (AP-4)
SHAPIRO, STANLEY L. (AP-4)
WINN, KENNETH R. (AP-4)

2-62

PION RADIOTHERAPY. STUDIES
WITH NUCLEAR EMULSIONS.
PHYS. MED. BIOL.,
V.23, P.603-9. 1978.
ALLRED, JOHN C. (MP-3)
BRADBURY, JAMES N. (MP-3)
ROSEN, LOUIS (MP-DO)
HUNGERFORD, E. V.
KIDDER, H. R.
OSBORNE, W. Z.
PHILLIPS, G. C.

2-63

PRELIMINARY TOXICOLOGICAL STUDY OF
BIS-DINITRO-PROPYL-FORMAL.
BIS-DINITRO-PROPYL-ACETAL.
LASL,
1978, 5P. (LA-7206-MS)
SMITH, DAVID M. (H-4)
DRAKE, GLESSIE A. (H-4)
LONDON, JERRY E. (H-4)
WILSON, JULIE S. (H-4)
HOLLAND, LAURENCE M. (H-4)
THOMAS, ROBERT G. (H-4)

2-64

PRELIMINARY TOXICOLOGICAL STUDY OF
KERIMIDE 601 RESIN.
LASL,
1978, 3P. (LA-7207-MS)
SMITH, DAVID M. (H-4)
DRAKE, GLESSIE A. (H-4)
LONDON, JERRY E. (H-4)
WILSON, JULIE S. (H-4)
HOLLAND, LAURENCE M. (H-4)
THOMAS, ROBERT G. (H-4)

2-65

PRELIMINARY TOXICOLOGICAL STUDY OF
SILASTIC 386 FOAM ELASTOMER.
LASL,
1978, 3P. (LA-7365-MS)
SMITH, DAVID M. (H-4)
LONDON, JERRY E. (H-4)
DRAKE, GLESSIE A. (H-4)
THOMAS, ROBERT G. (H-4)

2-66
PRELIMINARY TOXICOLOGICAL STUDY OF
SILASTIC 386 FOAM ELASTOMER -
CATALYST.

LASL,
1978. 3P. (LA-7366-MS)
SMITH, DAVID M. (H-4)
DRAKE, GLESSIE A. (H-4)
LONDON, JERRY E. (H-4)
THOMAS, ROBERT G. (H-4)

2-67
PRELIMINARY TOXICOLOGICAL STUDY OF
SILASTIC 386 CATALYST.

LASL,
1978. 5P. (LA-7367-MS)
SMITH, DAVID M. (H-4)
DRAKE, GLESSIE A. (H-4)
HOLLAND, LAURENCE M. (H-4)
JACKSON, DOUGLAS E. (H-10)
LONDON, JERRY E. (H-4)
PRINE, JAMES R. (H-4)
THOMAS, ROBERT G. (H-4)

2-68
PRELIMINARY TOXICOLOGICAL STUDY OF
SYLGARD 184 CURING AGENT.

LASL,
1978. 3P. (LA-7368-MS)
SMITH, DAVID M. (H-4)
LONDON, JERRY E. (H-4)
DRAKE, GLESSIE A. (H-4)
THOMAS, ROBERT G. (H-4)

2-69
PRELIMINARY TOXICOLOGICAL STUDY OF
SYLGARD 184 ENCAPSULATING RESIN.

LASL,
1978. 3P. (LA-7369-MS)
SMITH, DAVID M. (H-4)
DRAKE, GLESSIE A. (H-4)
LONDON, JERRY E. (H-4)
THOMAS, ROBERT G. (H-4)

2-70
PRELIMINARY TOXICOLOGICAL STUDY OF
SYLGARD 184 ENCAPSULATING RESIN -
CURING AGENT.

LASL,
1978. 3P. (LA-7370-MS)
SMITH, DAVID M. (H-4)
DRAKE, GLESSIE A. (H-4)
LONDON, JERRY E. (H-4)
THOMAS, ROBERT G. (H-4)

2-71
PRODUCTION AND PROPERTIES OF
RADIOACTIVE MICROSPHERES FOR
LOCALIZED IRRADIATION OF
LUNG TISSUE.

HEALTH PHYS.
V.34, P.225-36. 1978.
ANDERSON, ERNEST C. (H-DO)
PERRINGS, JAMES D. (H-10)

2-72
PRODUCTION, RECOVERY, AND
PURIFICATION OF HAFNIUM -172 FOR
UTILIZATION IN NUCLEAR MEDICINE
AS THE GENERATOR OF LUTETIUM -172.
INT. J. NUCL. MED. BIOL.,
V.5, P.11-7. 1978.
DANIELS, REBECCA J. (CNC-11)
GRANT, PATRICK M. (CNC-11)
O'BRIEN, HAROLD A., JR. (CNC-1)

2-73
PROTON COMPUTED TOMOGRAPHY.
BULL. AM. PHYS. SOC.,
V.23, P.1029. 1978.
HANSON, KENNETH M. (MP-3)

2-74
PULSED SYSTEM FOR OBTAINING
MICRODOSIMETRIC DATA WITH HIGH
INTENSITY BEAMS.

IEEE TRANS. NUCL. SCI.,
V.NS-25, P.202-4. 1978.
ALSO PUBLISHED IN:
TIC
1977. 3P. MN (LA-UR-77-2400)
ZAIDER, MARCO (MP-3)
DICELO, JOHN F., JR. (MP-3)
HIEBERT, RICHARD D. (E-3)

2-75
QUANTITATION OF CELL FUSION BY
TWENTY-ONE STRAINS OF NEWCASTLE
DISEASE VIRUS USING FLOW
MICROFLUOROMETRY.

J. GEN. VIROL.,
V.41, P.27-36. 1978.
CRAM, L. SCOTT (H-10)
FORSUND, JEAN C. (H-10)
JETT, JAMES H. (H-10)

2-76
RADIATION EXPOSURE TO RODENTS
INHABITING A RADIOACTIVE WASTE
RECEIVING AREA.

HEALTH PHYS.,
V.34, P.603-9. 1978.
MIERA, FELIX R., JR. (H-8)
HAKONSON, THOMAS E. (H-8)

2-77
RAPID RADIOIODINATION OF
ROSE BENGAL AT ROOM TEMPERATURE.

J. NUCL. MED.,
V.19, P.525-9. 1978.
HUPE, H. E. (CNC-11)
WANER, PHILIP M. (CNC-11)
O'BRIEN, HAROLD A., JR. (CNC-1)
HOLLAND, LAURENCE M. (H-4)

2-78
 SEQUENTIAL BIOCHEMICAL EVENTS IN THE
 CELL CYCLE.
 CELL CULTURE CONGRESS. 1975.
 1ST INTERNATIONAL, BIRMINGHAM, AL.
 PROC. CELL CULTURE AND ITS
 APPLICATION. P.5-22. R.T. ACTON, ED.
 ACADEMIC, 1977. (574.8/C393C)
 TOBEY, ROBERT A. (H-9)
 WALTERS, RONALD A. (H-9)
 HOHMANN, PHILIP G. (H-9)
 HILDEBRAND, CARL E. (H-9)
 GURLEY, LAWRENCE R. (H-9)

2-79
 SEROLOGIC TEST SYSTEMS DEVELOPMENT,
 JULY 1, 1976-SEPTEMBER 30, 1977.
 LAST.
 1978. 38P. (LA-7078-PR)
 SAUNDERS, GEORGE C. (H-10)
 CLINARD, ELVA H. (H-6)
 BARTLETT, MARY L. (H-6)
 PETERSEN, PAMELA M. (H-6)
 SANDERS, WILLIAM MORT (H-6)
 PAYNE, ROBERT J. (H-6)
 MARTINEZ, ELEUTERIO E. (H-9)

2-80
 SINGULAR PERTURBATION APPROACH
 TO DIFFUSION REACTION EQUATIONS
 CONTAINING A POINT SOURCE, WITH
 APPLICATION TO THE JERNE HEMOLYTIC
 PLAQUE ASSAY.
 J. MATH. BIOL.
 V.6, P.75-85. 1978.
 PERELSON, ALAN S. (T-10)
 SEGEL, LEE A.

2-81
 SPATIAL DISTRIBUTION OF SURFACE
 IMMUNOGLOBULIN ON B LYMPHOCYTES.
 LOCAL ORDERING.
 EXP. CELL RES.
 V.112, P.309-21. 1978.
 PERELSON, ALAN S. (T-10)

2-82
 SYNOPSIS OF RESEARCH ON RNA
 SECONDARY STRUCTURE.
 LASL
 1978. 5P. (LA-7539-MS)
 WATERMAN, MICHAEL S. (S-1)

2-83
 THEORY OF EQUILIBRIUM BINDING OF
 SYMMETRIC BIVALENT HAPTENS TO CELL
 SURFACE ANTIBODY. APPLICATION TO
 HISTAMINE RELEASE FROM BASOPHILS.
 J. IMMUNOL.
 V.121, P.345-53. 1978.
 DEMEO, MICAH (T-10)
 GOLDSTEIN, BYRON (T-10)

2-84
 THEORY OF EQUILIBRIUM BINDING OF
 ASYMMETRIC BIVALENT HAPTENS TO CELL
 SURFACE ANTIBODY. APPLICATION TO
 HISTAMINE RELEASE FROM BASOPHILS.
 J. IMMUNOL.
 V.121, P.593-601. 1978.
 WOFSY, CARLA
 GOLDSTEIN, BYRON (T-10)
 DEMBO, MICAH (T-10)

2-85
 THERMAL TREATMENT TECHNIQUE FOR
 CANCER EYE.
 TIC
 1978. 5P. MN (LA-UR-78-636)
 DOSS, JAMES D. (MP-3)

2-86
 THREE DOSE COMPONENTS OF A NEGATIVE
 PION BEAM AND THEIR ROLE IN PION
 RADIOGRAPHY.
 RADIOLOGY
 V.128, P.757-66. 1978.
 RICHMAN, CHAIM (DIR-O)
 RODRIGUEZ, JOE F. (E-1)
 MALCOM, JACK E. (E-1)
 STEIN, MYRON L. (C-3)

2-87
 TRATAMIENTO ELECTROTÉRMICO DEL
 CÁNCER DEL OJO.
 LASL
 MINI-REVIEW. 1978. 4P.
 (LASL-77-14)
 DOSS, JAMES D. (MP-3)

2-88
 TUMOR PRODUCTION IN SYRIAN
 HAMSTERS FOLLOWING INHALATION OF
 PLUTONIUM DIOXIDE - ZIRCONIUM -
 DIOXIDE AEROSOL.
 TIC
 1978. 13P. MN (LA-UR-78-644)
 ALSO PUBLISHED IN:
 AIRBORNE RADIOACTIVITY.
 1977. SESSIONS. SAN FRANCISCO.
 SELECTED PAPERS. D.T. SHAW, ED.
 P.223-30. ANS, 1978.
 (614.71/A298R)
 THOMAS, ROBERT G. (H-4)
 SMITH, DAVID M. (H-4)

2-89
 X-RADIATION-INDUCED NUCLEAR LESIONS
 IN CULTURED MAMMALIAN CELLS - AN
 ULTRASTRUCTURAL ANALYSIS.
 RADIAT. RES.
 V.76, P.105-26. 1978.
 BARHAM, STEVEN S. (H-9)
 WALTERS, RONALD A. (H-9)

3. CHEMICAL HIGH EXPLOSIVES

- 3-1
BURNING AND DETONATION.
LASL,
1978. 41P. (LA-7245)
FOREST, CHARLES A. (T-14)
- 3-2
CHARACTERIZATION OF TWO COMMERCIAL
EXPLOSIVES.
LASL,
1978. 19P. (LA-7140)
CRAIG, BOBBY GLENN (E-5)
JOHNSON, JAMES N. (T-14)
MADER, CHARLES L. (T-14)
LEDERMAN, GORDON F., JR. (M-3)
- 3-3
DETONATION SENSITIVITY TESTS.
LASL,
1978. 41P. (LA-7193-MS)
URIZAR, MANUEL J. (WX-2)
PETERSON, SUZANNE W. (WX-2)
SMITH, LOUIS C. (WX-2)
- 3-4
DETONATION VELOCITY OF PETN IN SMALL
CONFINED CYLINDRICAL CHARGES.
PROPELLANTS EXPLOS.,
V.1, P.97-100. 1976.
DINEGAR, ROBERT H. (WX-7)
- 3-5
EXPLO - EXPLOSIVES THERMAL ANALYSIS
COMPUTER CODE.
LASL,
1978. 40P. AND APPEND.
(LA-6949-MS)
JAEGER, DWIGHT L. (WX-3)
- 3-6
FIBER - REINFORCED PLASTIC - BONDED
EXPLOSIVES.
LASL,
1978. 38P. (LA-7522-MS)
TORRES, AGAPITO P. (WX-3)
VIGIL, ARMANDO S. (WX-3)
- 3-7
HIGH - TEMPERATURE SHOCK INITIATION
OF EXPLOSIVES.
LASL,
1978. 22P. (LA-7158)
RAMSAY, JOHN B. (M-3)
CRAIG, BOBBY GLENN (M-DO)
DICK, JERRY JOEL (M-3)
- 3-8
IGNITION AND DEFLAGRATION OF
POTASSIUM PICRATE (KP) AND KP
EXPLOSIVES MIXTURES. LOW VOLTAGE,
NONPRIMARY DETONATORS.
TIC,
1978. 17P. MN (LA-UR-78-1298)
DINEGAR, ROBERT H. (WX-7)
- 3-9
IGNITION AND INITIATION OF
POTASSIUM PICRATE AND POTASSIUM
PICRATE/EXPLOSIVES MIXTURES -
NONPRIMARY, HOT - WIRE DETONATORS.
LASL,
1978. 10P. (LA-7358-MS)
DINEGAR, ROBERT H. (WX-7)
- 3-10
MODEL FOR THE PRECIPITATION OF
PENTAERYTHRITOL
TETRANITRATE (PETN).
I&EC PROCESS DESIGN & DEV.,
V.17, P.182-8. 1978.
RIVERA, THOMAS (WX-3)
RANDOLPH, ALAN D.
- 3-11
NUMERICAL MODELING OF THE
DEFLAGRATION-TO-DETONATION
TRANSITION.
TIC,
1978. 21P. MN (LA-UR-78-913)
MADER, CHARLES L. (T-14)
- 3-12
PREDICTION OF LOW CYCLE FATIGUE
FAILURE IN A 20,000 PSI PRESSURE
VESSEL.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.36. LASL, 1978. (LA-7417-C)
RUMINER, JOHN J. (WX-3)
NEUDECKER, JOSEPH W. (WX-8)
- 3-13
SAFE - STATIONARY DETONATION TRAIN F
ARMY ORDNANCE.
LASL,
1978. 5P. (LA-7123-MS)
GOFORTH, JAMES H. (WX-7)
- 3-14
TECHNIQUES FOR MEASUREMENT OF
DENSITIES OF PBX SAMPLES AT OTHER
THAN ROOM TEMPERATURE.
LASL,
1978. 4P. (LA-7450-MS)
BAYTOS, JOHN F. (WX-3)
MARTINEZ, CARLOS A. (WX-3)

4. CHEMICAL SEPARATIONS PROCESSES FOR PLUTONIUM AND URANIUM

4-1

METHOD FOR PHOTOCHEMICAL REDUCTION
OF URANYL NITRATE BY TRI-N-BUTYL
PHOSPHATE AND APPLICATION OF THIS
METHOD TO NUCLEAR FUEL REPROCESSING.

PATENTED

MAR. 21, 1978, FILED 1976.

(U.S. PATENT-4,080,273)

DE POORTER, GERALD L. (AP-3)

ROFER-DE POORTER, CHERYL K. (AP-3)

5. CHEMISTRY

5-1

ANION EXCHANGE OF 58 ELEMENTS IN HYDROBROMIC ACID AND IN HYDRIODIC ACID.

LASL,

1978. 16P. (LA-7084)

MARSH, SINCLAIR F. (CMB-1)

ALARID, J. E. (CMB-1)

HAMMOND, C. F. (CMB-1)

MC LEOD, M. J. (CMB-1)

ROENSCH, F. R. (CMB-1)

REIN, JAMES E. (CMB-1)

5-2

CALORIMETRY CONFERENCE STATEMENT.
FUNDING OF BASIC RESEARCH IN
CHEMICAL THERMODYNAMICS.

HIGH TEMP. SCI.,

V.9, P.215-9. 1977.

HOLLEY, CHARLES E., JR. (CNC-2)

VANDERZEE, CECIL

WESTRUM, EDGAR F., JR.

5-3

CARBONATION OF CERIUM OXYCHLORIDE.

TIC,

1977. 7P. MN (LA-UR-77-2030)

ALSO PUBLISHED IN:

RARE EARTHS IN MODERN

SCIENCE AND TECHNOLOGY. G.J.

MC CARTHY, ED. P.245-51. PLENUM,

1978.

PETERSON, EUGENE J. (CMB-8)

ONSTOTT, EDWARD I. (CMB-8)

BOWMAN, MELVIN G. (CMB-DO)

5-4

CATION EXCHANGE OF 53 ELEMENTS IN NITRIC ACID.

LASL,

1978. 8P. (LA-7083)

MARSH, SINCLAIR F. (CMB-1)

ALARID, J. E. (CMB-1)

HAMMOND, C. F. (CMB-1)

MC LEOD, M. J. (CMB-1)

ROENSCH, F. R. (CMB-1)

REIN, JAMES E. (CMB-1)

5-5

COMMENT ON - DETERMINATION OF FLUORIDE BY NEUTRON ACTIVATION ANALYSIS.

ANAL. CHEM.,

V.50, P.376. 1978.

GLADNEY, ERNEST S. (H-8)

CURTIS, DAVID B. (H-8)

5-6

COMPARISON OF THREE TECHNIQUES FOR THE MEASUREMENT OF DEPLETED URANIUM IN SOILS.

ANAL. CHEM.,

V.50, P.652-3. 1978.

GLADNEY, ERNEST S. (H-8)

HENSLEY, WALTER K. (P-2)

MINOR, MICHAEL M. (P-2)

5-7

CONFORMATION EXAMINATION OF URIDINE DIPHOSPHOGLUCOSE USING LANTHANIDE - NITRILOTRIACETATE CHELATES AS SHIFT PROBES.

BIOCHEMISTRY,

V.17, P.3662-6. 1978.

LONDON, ROBERT E. (CNC-4)

SHERRY, A. D.

5-8

CONTRIBUTION OF CHEMISTRY TO ENERGY.

TIC,

1978. 23P. MN (LA-UR-78-706)

COX, KENNETH E. (CMB-3)

5-9

CONVENIENT MULTIGRAM SYNTHESIS OF URANIUM PENTAFLUORIDE AND URANIUM PENTAETHOXIDE.

INORG. CHEM.,

V.17, P.2967-9. 1978.

HALSTEAD, GORDON W. (CNC-4)

ELLER, P. GARY (CNC-4)

ASPREE, LARNED B. (CNC-4)

SALAZAR, KENNETH V. (CNC-4)

5-10

CRYSTAL STRUCTURE OF ANTIMONY UP TO 85 KBAR.

BULL. AM. PHYS. SOC.,

V.23, P.434. 1978.

SCHIFERL, DAVID (Q-10)

JAMIESON, JOHN C.

CROMER, DON T. (CMB-5)

5-11

CRYSTAL STRUCTURE OF URANIUM ENNEAFLUORIDE - THE SULFUR DIOXIDE - URANIUM HEXAFLUORIDE REACTION.

AMERICAN CHEMICAL SOCIETY.

NATIONAL MEETING. 1978 (MAR.)

175TH, ANAHEIM, CA. ABSTRACTS OF

PAPERS, INOR 66.

ELLER, P. GARY (CNC-4)

5-12
DECOMPOSITION OF HYDROGEN BROMIDE
USING IRON BROMIDE AND MAGNETITE.
TIC,
1978. 19P. MN (LA-UR-78-847)
MASON, CAROLINE F. V. (CMB-3)

5-13
DETERMINATION OF ARSENIC AND
GALLIUM IN STANDARD MATERIALS BY
INSTRUMENTAL EPITHERMAL NEUTRON
ACTIVATION ANALYSIS.
ANAL. CHIM. ACTA,
V.96, P.271-7. 1978.
WÄNGEN, LAWRENCE E. (H-8)
GLADNEY, ERNEST S. (H-8)

5-14
DETERMINATION OF ARSENIC, ANTIMONY,
MOLYBDENUM, THORIUM, AND TUNGSTEN
IN SILICATES BY THERMAL NEUTRON
ACTIVATION AND INORGANIC ION
EXCHANGE.
ANAL. LETT.,
V.11, P.429-35. 1978.
GLADNEY, ERNEST S. (H-8)

5-15
DETERMINATION OF URANIUM AND
NEPTUNIUM IN PLUTONIUM BY X-RAY
FLUORESCENCE.
LASL,
1978. 5P. (LA-7373)
MARTELL, CALVIN J. (CMB-1)
HANSEL, JAMES M. (CMB-1)

5-16
EFFECTS OF SAMPLE SURFACE ON ION
MICROPROBE ANALYSIS OF PLATINUM -
RHENIUM - TUNGSTEN ALLOYS.
MICROBEAM ANALYSIS SOCIETY.
ANNUAL CONF. 1975. 10TH, LAS
VEGAS, NV. PROC. P.73A-73D. THE
SOCIETY, 1975. (545/M626A 1975).
HAKKILA, E. ARNOLD (CMB-1)
HANSEL, JAMES M. (CMB-1)
HUTCHINSON, WILLIAM B. (CMB-1)

5-17
EVOLUTION OF HYDROGEN FROM
FERROUS BROMIDE SOLUTION AND
MAGNESIUM OXIDE.
J. INORG. NUCL. CHEM.,
V.40, P.1739-43. 1978.
MASON, CAROLINE F. V. (CMB-3)
BOWMAN, MELVIN G. (CMB-DO)
DAVID, MARY ANN (CMB-3)

5-18
FUNDING OF RESEARCH IN
THERMODYNAMICS.
J. CHEM. ENG. DATA,
V.23, P.4A. 1978.
HOLLEY, CHARLES E., JR. (CNC-2)

5-19
GAS PHASE CARBON -13 CHEMICAL
SHIFTS AND COUPLING CONSTANTS
IN THE DEUTEROMETHANES.
J. CHEM. PHYS.,
V.68, P.783-4. 1978.
ALEI, MOHAMMED, JR. (CNC-4)
WAGEMAN, WILLIAM E. (CNC-4)

5-20
HIGHLY SELECTIVE COULOMETRIC
METHOD AND EQUIPMENT FOR THE
AUTOMATED DETERMINATION OF
PLUTONIUM.
ANALYTICAL CHEMISTRY IN ENERGY
TECHNOLOGY. 1977. 21ST CONF.,
GATLINBURG, TN. PAPERS.
ANALYTICAL CHEMISTRY IN NUCLEAR
FUEL REPROCESSING. P.151-8.
W.S. LYON, ED. SCIENCE PRESS,
1978. (626/C748AP 21ST)
JACKSON, DARRYL D. (CMB-1)
HOLLEN, ROBERT M. (CMB-1)
ROENSCH, F. R. (CMB-1)
REIN, JAMES E. (CMB-1)

5-21
HYDROGEN EVOLVING REACTIONS - THE
THERMAL DECOMPOSITIONS OF CEROUS
CARBONATES.
J. INORG. NUCL. CHEM.,
V.40, P.1357-63. 1978.
PETERSON, EUGENE J. (CMB-8)
ONSTOTT, EDWARD I. (CMB-8)
JOHNSON, M. R. (CMB-8)
BOWMAN, MELVIN G. (CMB-DO)

5-22
IRREVERSIBILITY ANALYSIS OF HYDROGEN
SEPARATION SCHEMES IN THERMOCHEMICAL
CYCLES.
TIC,
1978. 27P. MN (LA-UR-78-938)
COX, K. M. E. (CMB-3)

5-23
LABILITY AND REACTIVITY OF
SULFUR DIOXIDE TRANSITION
METAL COMPLEXES. CRYSTAL AND
MOLECULAR STRUCTURE OF THE
BIS(CHLOROFORM) SOLVATE OF
CHLOROHYDRIDO (SULFUR DIOXIDE)
CARBONYL - BIS(TRICYCLOHEXYL-
PHOSPHINE) OSMIUM(II).
INORG. CHEM.,
V.17, P.637-41. 1978.
RYAN, ROBERT R. (CNC-4)
KUBAS, GREGORY J. (CNC-4)

5-24
MEASUREMENT OF SPECIAL NUCLEAR MATERIAL
CONCENTRATIONS IN SOLUTION BY
ABSORPTION EDGE DENSITOMETRY.

TIC,
1977. 10P. MN (LA-UR-77-2235)
ALSO PUBLISHED IN:
ANALYTICAL CHEMISTRY IN ENERGY
TECHNOLOGY. 1977. 21ST CONF.,
GATLINBURG, TN. PAPERS.
ANALYTICAL CHEMISTRY IN NUCLEAR
FUEL REPROCESSING. P.313-21.
W.S. LYON, ED. SCIENCE PRESS,
1978. (626/C748AP 21ST)
TAPE, JAMES W. (Q-1)
LANGNER, D. G. (Q-1)
PARKER, JACK L. (Q-1)
CANADA, THOMAS R. (Q-1)

5-25
MODELS FOR THE SPECIFIC ADHESION
OF CELLS TO CELLS.
SCIENCE.

V.200, P.618-27. 1978.
BELL, GEORGE I. (T-DO)

5-26
NITROGEN -15 CHEMICAL SHIFTS FOR
IMIDAZOLE IN AQUEOUS CADMIUM 2+
SOLUTIONS.

INORG. CHEM.,
V.17, P.3314-5. 1978.
ALEI, MOHAMMED, JR. (CNC-4)
WAGEMAN, WILLIAM E. (CNC-4)
MORGAN, LEON O. (CNC-4)

5-27
ON THE INTERPRETATION OF CARBON -13
SPIN LATTICE RELAXATION RESULTING FROM
RING PUCKERING IN PROLINE.

J. AM. CHEM. SOC.,
V.100, P.2678-85. 1978.
LONDON, ROBERT E. (CNC-4)

5-28
PHASE RELATIONSHIP, VAPORIZATION,
AND THERMODYNAMIC PROPERTIES OF
THE LANTHANUM - BORON SYSTEM.

J. PHYS. CHEM.,
V.82, P.51-9. 1978.
STORMS, EDMUND K. (CMB-3)
MUELLER, BARBARA A. (CMB-3)

5-29
PLUTONIUM - OSMIUM, ETA-
PLUTONIUM(19)OSMIUM.

ACTA CRYSTALLOGR.,
V.B34, P.913-5. 1978.
CROMER, DON T. (CMB-5)

5-30
PLUTONIUM -239 HALF LIFE
DETERMINED BY ISOTOPE DILUTION
MASS SPECTROMETRIC MEASUREMENT
OF GROWN - IN URANIUM -235.

INT. J. APPL. RADIAT. ISOT.,
V.29, P.509-15. 1978.
MARSH, SINCLAIR F. (CMB-1)
ABERNATHEY, ROBERT M. (CMB-1)
BECKMAN, RICHARD J. (Q-12)
ZEIGLER, ROYAL K. (Q-12)
REIN, JAMES E. (CMB-1)

5-31
PLUTONIUM-PLATINUM PU2PT.

ACTA CRYSTALLOGR.,
V.34B, P.2608-10. 1978.
CROMER, DON T. (CMB-5)

5-32
PREPARATION AND CHEMICAL
CHARACTERIZATION OF
PLUTONIUM -239 METAL USED
FOR HALF - LIFE MEASUREMENT.

INT. J. APPL. RADIAT. ISOT.,
V.29, P.485-7. 1978.
REIN, JAMES E. (CMB-1)
WATERBURY, GLENN R. (CMB-1)

5-33
PREPARATION OF CARBON -
CARBON -13 DISULFIDE AND CARBON -
CARBON -13 OXYSULFIDE.
J. LABELLED COMPD. RADIOPHARM.,
V.14, P.793-5. 1978.
KERR, VERNON N. (H-11)
OTT, DONALD G. (H-11)

5-34
PREPARATION OF SYNTHETIC STANDARD
MINERALS.

LASL,
1978. 50P. (LA-7072-MS)
HERRICK, CLAUDE C. (CMB-8)
BUSTAMANTE, S. J. (CMB-DO)
CHARLES, ROBERT W. (CNC-11)
COWAN, ROBERT E. (E-2)
HAKKILA, E. ARNOLD (Q-4)
HULL, DONALD E. (CMB-7)
OLINGER, BARTON W. (M-6)
ROOF, RAYMOND BRADLEY, JR. (CMB-E)
SHEINBERG, HASKELL (CMB-6)
HERRICK, G. C.

5-35
PREPARATION OF WORKING CALIBRATION
AND TEST MATERIALS - PLUTONIUM
OXIDE.

LASL,
1978. 40P. (LA-7260)
REIN, JAMES E. (CMB-1)
TIETJEN, GARY L. (S-1)
ZEIGLER, ROYAL K. (CMB-1)
WATERBURY, GLENN R. (CMB-1)
SWANSON, GERALD C.

5-36
PREPARATION OF WORKING CALIBRATION AND
TEST MATERIALS - MIXED OXIDE.

LASL,
1978. 42P. (LA-7322)
REIN, JAMES E. (CMB-1)
TIETJEN, GARY L. (S-1)
ZEIGLER, ROYAL K. (S-1)
WATERBURY, GLENN R. (CMB-1)

5-37
PREPARATIVE ROUTES TO CEROUS
HYDROXYCARBONATE.

J. INORG. NUCL. CHEM.,
V.40, P.1951-2. 1978.
PETERSON, EUGENE J. (CMB-8)
ONSTOTT, EDWARD I. (CMB-8)

5-38
PROCEDURE FOR THE ANALYSIS OF
AMERICIUM IN COMPLEX MATRICES.

LASL,
1978. 12P. (LA-7057)
KNAB, DARYL (H-8)

5-39
QUIC - A CHEMICAL KINETICS CODE
FOR USE WITH THE CHEMICAL
EQUILIBRIUM CODE QUIL.

LASL,
1978. 49P. (LA-NUREG-6998)
LUNSFORD, JOHN L. (CMB-8)

5-40
STRUCTURAL PHASE TRANSFORMATIONS
AND TEMPERATURE DEPENDENT RAMAN
SPECTRA OF CS₂LIFE(CN)₆.

J. CHEM. PHYS.,
V.69, P.4328-34. 1978.
SWANSON, BASIL I.
LUCAS, B. C.
RYAN, ROBERT R. (CNC-4)

5-41
SYNTHESIS OF
4-(2-HYDROXYETHYLSULFONYL)-1-
NAPHTHALENESULFONAMIDE.

J. ORG. CHEM.,
V.43, P.4659-62. 1978.
DAUB, GUIDO H.
WHALEY, THOMAS W. (H-11)

5-42
SYNTHESIS, PROPERTIES, AND STRUCTURE
OF IODOSULFINATE SALTS.

INORG. CHEM.,
V.17, P.894-7. 1978.
ELLER, P. GARY (CNC-4)
KUBAS, GREGORY J. (CNC-4)

5-43
THERMOCHEMICAL PRODUCTION OF
HYDROGEN FROM WATER.

TIC,
1977. 21P. MN (LA-UR-78-652)
COX, KENNETH E. (CMB-3)
BOWMAN, MELVIN G. (CME-DO)

5-44
THERMOCHEMICAL PRODUCTION OF
HYDROGEN - REALITY, NOT MYTH.

LASL,
1978. 6P. (LA-7415-MS)
COX, KENNETH E. (CMB-3)

5-45
THERMODYNAMIC MODEL OF BINDING
OF FLEXIBLE BIVALENT HAPTENS
TO ANTIBODY.

IMMUNOCHEMISTRY,
V.15, P.307-13. 1978.
DEMBO, MICAH (T-10)
GOLDSTEIN, BYRON (T-10)

5-46
THREE COORDINATION IN METAL
COMPLEXES.

COORD. CHEM. REV.,
V.24, P.1-95. 1977.
ELLER, P. GARY (CNC-4)
BRADLEY, D. C.
HURSTHOUSE, M. E.
MEEK, D. W.

6. COAL CONVERSION AND UTILIZATION---COAL GASIFICATION

6-1

COMBINED CARBON DIOXIDE - OXYGEN
UNDERGROUND PYROLYSIS - GASIFICATION
OF SOUTHWESTERN COALS, JULY -
SEPTEMBER 1977.

LAST

1978. 29P. (LA-7336-PR)
VANDERBORGH, NICHOLAS E. (G-7)

6-2

CONCURRENT HEAT AND MASS TRANSFER
DURING DRYING OF BLOCKS OF
SUBBITUMINOUS COALS.

UNDERGROUND COAL CONVERSION
SYMP. 1978 (JULY). 4TH, STEAMBOAT
SPRINGS, CO. PROC., P.453-60.

SANDIA LABS., 1978.

VANDERBORGH, NICHOLAS E. (G-7)

ELLIOTT, GUY R. E. (G-7)

CORT, GEORGE E. (WX-4)

6-3

LABORATORY STUDIES OF COAL
DRYING, PYROLYSIS, AND COMBUSTION
FOR UCC.

SOCIETY OF PETROLEUM ENGINEERS
OF AIME. ANNUAL FALL TECHNICAL CONF.
AND EXHIBITION. 1978 (OCT). 53RD,
HOUSTON. PREPRINT SPE 7522.

8P. AIME, 1978.

ELLIOTT, GUY R. B. (G-7)

VANDERBORGH, NICHOLAS E. (G-7)

6-4

UNDERGROUND THERMAL GENERATION OF
HYDROCARBONS FROM DRY, SOUTHWESTERN
COALS.

ENERGY CONVERSION ENGINEERING
CONFERENCE. 1978. (AUG.) 13TH
INTER-SOCIETY, SAN DIEGO, CA. PROC.,
V.1, P.366-72. SAE, 1978.

ALSO PUBLISHED IN:

TTC

1978. 8P. MN (LA-UR-78-1438)

VANDERBORGH, NICHOLAS F. (G-7)

ELLIOTT, GUY R. B. (G-7)

7. COAL CONVERSION AND UTILIZATION--COAL SCIENCE AND ANALYSIS

7-1
COMBINED HEAT AND MASS TRANSFER CODE
CLOSELY MODELS LABORATORY DATA
OBTAINED FROM DRYING COAL BLOCKS
AT LASL.

UNIVERSITY COAL RESEARCH. 1978.
(AUG.) ANNUAL DOE/FOSSIL ENERGY
CONF. 5TH, LEXINGTON. RESEARCH
ACCOMPLISHMENTS. P.67. DOE, 1978.
VANDERBORGH, NICHOLAS E. (G-7)

7-6
USE OF THE ELECTRON PROBE
MICROANALYZER IN COAL STUDIES.

LASL,
1978. 4P. (LASL-78-7)
RAYMOND, ROBERT, JR. (G-6)

7-2
HIGH - TEMPERATURE CARBON DIOXIDE /
OXYGEN (2) - COAL REACTION RATE
EXPERIMENTS.

LASL,
1978. 15P. (LA-7277-MS)
WAGNER, PAUL (CMB-8)
OLSEN, JULIA D. (CMB-8)
WEWERKA, EUGENE M. (CMB-8)
WILLIAMS, JOEL M. (CMB-8)
BERTINO, JAMES P. (CMB-8)
VANDERBORGH, NICHOLAS E. (CMB-8)

7-3
IMPACT OF COAL TRANSPORTATION ON
GILLETTE, WYOMING, AND COMMUNITIES
SOUTH AND EAST.

LASL,
1978. 25P. (LA-7495-MS)
MORRIS, DONALD W. (S-2)

7-4
MASS TRANSFER CHANGES INDUCED IN
COAL BLOCKS DURING THERMAL
PROCESSING.

TIC
1978. 13P. MN (LA-UR-78-1183)
VANDERBORGH, NICHOLAS E. (G-7)
BERTINO, JAMES P. (CMB-8)
HOPKINS, D. N. (G-7)

7-5
REVIEW OF ORGANIC SULFUR ANALYSIS IN
COAL AND A NEW PROCEDURE.

TIC
1978. 14P. MN (LA-UR-78-150)
ALSO PUBLISHED IN:
SCANNING ELECTRON MICROSCOPY/1978.
SYMPOSIUM, LOS ANGELES. PROCEEDINGS,
V.1. INTERNATIONAL REVIEW OF
ADVANCES IN INSTRUMENTATION
TECHNIQUES, THEORY AND PHYSICAL
APPLICATIONS OF THE SCANNING ELECTRON
MICROSCOPE. OM JOHARI, ED.,
P.93-108. SEM, 1978.
(535.33/S383E, 1978)
RAYMOND, ROBERT, JR. (G-6)
GOOLEY, RONALD C. (G-6)

8. COAL CONVERSION AND UTILIZATION--ENVIRONMENTAL PROTECTION WASTE UTILIZATION AND SA

8-1
COAL COMBUSTION. SOURCE OF TOXIC
ELEMENTS IN URBAN AIR?
J. ENVIRON. SCI. HEALTH,
V.A13, P.481-91. 1978.
GLADNEY, ERNEST S. (H-8)
GORDON, GLEN E.
ZOLLER, WILLIAM H.

8-2
COMPUTER SIMULATION OF THE VISUAL
EFFECTS OF SMOKE PLUMES.
OPTICAL PROPERTIES OF THE
ATMOSPHERE. 1978. CONFERENCE,
WASHINGTON, D.C. PROCEEDINGS.
SPIE, 1978.
WILLIAMS, MICHAEL D.
WECKSUNG, MONA J. (Q-12)
LEONARD, ELLEN M. (Q-12)

8-3
CONTAMINANTS IN COALS AND COAL
RESIDUES.
TIC
1976. 24P. MN (LA-UR-76-2197)
ALSO PUBLISHED IN:
ENERGY AND THE ENVIRONMENT.
1976. 4TH NATIONAL CONFERENCE,
CINCINNATI, OH. PROC., P.286-99.
AICHE, 1976. (614.7/E56E 1976)
WEWERKA, EUGENE M. (CMB-8)
WILLIAMS, JOEL M. (CMB-8)
VANDERBORGH, NICHOLAS E. (CMB-8)

8-4
ELEMENTAL DEPOSITION DOWNWIND OF A
COAL FIRED POWER PLANT.
WATER, AIR, SOIL POLLU.,
V.10, P.33-44. 1978.
WANGEN, LAWRENCE E. (H-8)
WILLIAMS, MICHAEL D.

8-5
OBSERVATIONS ON BORON RELEASE
FROM COAL FIRED POWER PLANTS.
ENVIRON. SCI. TECHNOL.,
V.12, P.1084-5. 1978.
GLADNEY, ERNEST S. (H-8)
WANGEN, LAWRENCE E. (H-8)
CURTIS, DAVID B. (H-8)
JURNEY, EDWARD T. (P-DO)

8-6
PHYSICS RELATED PROBLEMS OF
COAL FIRED POWER PLANT POLLUTION.
PHYS. TEACHER,
V.16, P.358-66. 1978.
DEVANEY, JOSEPH J. (L-5)

8-7
TRACE ELEMENT CHARACTERIZATION AND
REMOVAL / RECOVERY FROM COAL AND
COAL WASTES, JANUARY 1-MARCH 31, 1977
LASL,
1978. 26P. (LA-7104-PR)
WEWERKA, EUGENE M. (CMB-8)
WILLIAMS, JOEL M. (CMB-8)
VANDERBORGH, NICHOLAS E. (G-7)
WAGNER, PAUL (CMB-8)
WANER, PATSY L. (CMB-8)
OLSEN, JULIA D. (CMB-8)

8-8
TRACE ELEMENT CHARACTERIZATION AND
REMOVAL / RECOVERY FROM COAL AND
COAL WASTES, APRIL 1-JUNE 30, 1977.
LASL,
1978. 30P. (LA-7117-PR)
WEWERKA, EUGENE M. (CMB-8)
WILLIAMS, JOEL M. (CMB-8)
VANDERBORGH, NICHOLAS E. (G-7)
HARMON, ANTHONY W. (CMB-1)
WANER, PATSY L. (CMB-8)
OLSEN, JULIA D. (CMB-8)

8-9
TRACE ELEMENT CHARACTERIZATION OF
COAL WASTES - FIRST ANNUAL REPORT,
JULY 1, 1975 TO JUNE 30, 1976.
LASL,
1978. 52P. (LA-06835-PR)
WEWERKA, EUGENE M. (CMB-8)
WILLIAMS, JOEL M. (CMB-8)

8-10
TRACE ELEMENT CHARACTERIZATION OF
COAL WASTES - SECOND ANNUAL PROGRESS
REPORT - OCTOBER 1, 1976 - SEPTEMBER 3
1977.
LASL,
1978. 144P. (LA-7360-PR)
WEWERKA, EUGENE M. (CMB-8)
WILLIAMS, JOEL M. (CMB-8)
VANDERBORGH, NICHOLAS E. (G-7)
HARMON, ANTHONY W. (CMB-1)
WAGNER, PAUL (CMB-8)
WANER, PATSY L. (CMB-8)
OLSEN, JULIA D. (CMB-8)

8-11

TRACE ELEMENT DISTRIBUTIONS IN
SEVERAL COAL CONVERSION PROCESSES.
AN EXCHANGE PROGRAM BETWEEN THE
LOS ALAMOS SCIENTIFIC LABORATORY
AND THE NATIONAL COAL BOARD OF
ENGLAND.

LASL,

1978. 24P. (LA-7100-MS)

WILLIAMS, JOEL M. (CMB-8)

HENSLEY, WALTER K. (P-2)

WEWERKA, EUGENE M. (CMB-8)

WANEK, PATSY L. (CMB-8)

OLSEN, JULIA D. (CMB-8)

9. CRITICALITY STUDIES

9-1

EXPERIMENTAL CRITICALITY
SPECIFICATIONS. AN ANNOTATED
BIBLIOGRAPHY THROUGH 1977.

LASL,

1978. 32P. (LA-7170-MS)

PAXTON, HUGH C. (Q-14) COMP.

9-2

REACTIVITY COEFFICIENTS OF HEAVY
ISOTOPES IN LASL'S FAST CRITICAL
ASSEMBLIES.

TRANS. AM. NUCL. SOC.,

V.28, P.295-6. 1978.

BYERS, CLEO C. (Q-14)

HANSEN, GORDON E. (Q-14)

KOELLING, JERRY J. (WX-8)

PLASSMANN, EUGENE A. (Q-14)

SMITH, DAVID R. (Q-14)

9-3

THIRTY YEARS AT PAJARITO CANYON SITE.

LASL,

1978. 55P. (LA-7121-H)

PAXTON, HUGH C. (Q-14)

11. ENERGY CONSERVATION--ELECTRIC POWER TRANSMISSION

11-1
CRYOGENIC ENGINEERING PROBLEMS IN
THE DEVELOPMENT OF SUPERCONDUCTING
POWER TRANSMISSION LINES.

TIC,
1978. 24P. MN (LA-UR-78-1346)
EDESKUTY, FREDERICK J. (Q-10)

11-2
DC SUPERCONDUCTING POWER
TRANSMISSION LINE PROJECT AT
LASL, US DOE DIVISION OF
ELECTRIC ENERGY SYSTEMS,
OCTOBER 1, 1976-SEPTEMBER 30,
1977. PROGRESS REPORT NO. 19.

LASL,
1978. 133P. AND CHART.
(LA-7116-PR)
EDESKUTY, FREDERICK J. (Q-10) COMP.
CHOWDHURI, P. (Q-10) COMP.

11-3
DIRECT CURRENT SUPERCONDUCTING
POWER TRANSMISSION.

LASL
MINI-REVIEW. 1978. 4P.
(LASL-78-80)
KELLER, WILLIAM E. (Q-10)

11-4
PROPOSED 30-MJ SUPERCONDUCTING
UNIT FOR STABILIZING AN ELECTRIC
TRANSMISSION SYSTEM.

LASL,
1978. 34P. (LA-7312-P)
BOENIG, HEINRICH J. (Q-10)
BRONSON, JOHN C. (Q-10)
COLYER, DUARD B. (Q-10)
HASSENZAHN, WILLIAM V. (Q-10)
ROGERS, JOHN D., JR. (Q-DO)
SCHERMER, ROBERT I. (Q-10)

11-5
SOME ELECTRICAL CHARACTERISTICS
OF A DC SUPERCONDUCTING CABLE.

TIC,
1977. 11P. MN (LA-UR-77-199)
ALSO PUBLISHED IN:
IEEE TRANS. POWER APPAR. SYST.,
V. PAS-97, P. 399-408. 1978.
CHOWDHURI, P. (Q-26)
LAQUER, HENRY L. (Q-26)

11-6
SUPERCONDUCTIVITY AND ITS
APPLICATION IN THE ELECTRIC POWER
INDUSTRY.

LASL
MINI-REVIEW. 1978. 4P.
(LASL-78-79)
KELLER, WILLIAM E. (Q-10)

11-7
THERMOELASTIC ANALYSIS OF A
SUPERCONDUCTING CABLE.

LASL,
1978. 20P. (LA-7465-MS)
SMITH, PAUL D. (Q-13)

11-8
USE OF SUPERCONDUCTIVE TECHNOLOGY
FOR ENERGY STORAGE AND POWER
TRANSMISSION FOR LARGE POWER
SYSTEMS - POWER PARKS.

TIC,
1977. 19P. MN (LA-UR-77-2805)
KELLER, WILLIAM E. (Q-10)

11-9
50-KA FLUX PUMP FOR THE
SUPERCONDUCTING TRANSMISSION LINE
TEST BED.

LASL,
1978. 11P. (LA-6953-MS)
WIPF, STEFAN L. (Q-10)

12. ENERGY CONSERVATION--SYSTEMS MODELING AND PERFORMANCE ASSESSMENT

12-1
SAVING ENERGY - A NEW COMPUTER
PROGRAM HELPS.
LASL
MINI-REVIEW. 1978. 4P. (LASL-78-28)
TUCKER, EVA F. (WX-4)

14. ENERGY CONVERSION

14-1
CRITICAL REVIEW AND ASSESSMENT OF
PROBLEMS IN HYDROGEN ENERGY DELIVERY
SYSTEMS. INITIAL REPORT, NOVEMBER
1, 1976-SEPTEMBER 30, 1977.
LASL,
1978. 69P. (LA-7405-PR)
EDESKUTY, FREDERICK J. (Q-10) COMP.

15. ENERGY STORAGE--CHEMICAL

15-1
ELECTRICITY GENERATION AND STORAGE
FOR RESIDENCES USING LITHIUM
/L/SUB 2/ ELECTROCHEMICAL ENGINES
TO AUGMENT PHOTOVOLTAICS.

TIC.
1977. 9P. MN (LA-UR-77-2330)
ELLIOTT, GUY R. B. (CNC-2)

15-2
ELECTROCHEMICAL ENGINES AT UCC SITES
FOR ELECTRIC POWER GENERATION AND
STORAGE.

UNIVERSITY COAL RESEARCH. 1978.
(AUG.) ANNUAL DOE/FOSSIL ENERGY
CONF. 5TH, LEXINGTON. RESEARCH
ACCOMPLISHMENTS. P.125. DOE, 1978.
ELLIOTT, GUY R. B. (G-7)

15-3
ELECTROCHEMICAL ENGINES FOR POWER
GENERATION AND LOAD-LEVELING AT
SITES FOR UNDERGROUND COAL
CONVERSION.

ENERGY CONVERSION ENGINEERING
CONFERENCE. 1978. (AUG.) 13TH
INTER-SOCIETY, SAN DIEGO, CA. PROC.,
V.1, P.373-9. SAE, 1978.
ALSO PUBLISHED IN:

TIC.
1978. 8P. MN (LA-UR-78-1402)
ELLIOTT, GUY R. B. (G-7)
VANDERBORGH, NICHOLAS E. (G-7)

15-4
LIQUID HYDROGEN STORAGE AND
TRANSMISSION.

HYDROGEN - ITS TECHNOLOGY AND
IMPLICATIONS. K.E. COX AND K.D.
WILLIAMSON, EDS. V.2, TRANSMISSION
AND STORAGE, P.51-81. CRC PRESS,
1977. (546.1/C877H V.2)
EDESKUTY, FREDERICK J. (Q-10)
WILLIAMSON, KENNETH D., JR. (CTR-9)

15-5
OPTIMIZATION STUDIES FOR THE DESIGN
OF SUPERCONDUCTING MAGNETIC ENERGY
STORAGE VACUUM VESSELS.

CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.98. LASL, 1978. (LA-7417-C)
BENNETT, JOEL G. (Q-13)
ANDERSON, CHARLES A. (Q-13)

15-6
STATUS OF EUROPEAN THERMOCHEMICAL
HYDROGEN PROGRAMS.

TIC.
1977. 5P. MN (LA-UR-77-2985)
POWMAN, MELVIN G. (CME-DO)

15-7
STRUCTURAL DESIGN FOR A 10-GWH SMES
VACUUM VESSEL.

J. PRESSURE VESSEL TECH.,
V.100, P.263-70. 1978.
ALSO PUBLISHED IN:
TIC.
1978. 27P. MN (LA-UR-77-2754)
BENNETT, JOEL G. (Q-13)
ANDERSON, CHARLES A. (Q-13)

15-8
STRUCTURAL DESIGN FOR A 10-GWH SMES
VACUUM VESSEL.

LASL,
1978. 35P. (LA-7110-MS)
BENNETT, JOEL G. (Q-13)
ANDERSON, CHARLES A. (Q-13)

15-9
SUPERCONDUCTING MAGNETIC ENERGY
STORAGE.

TIC.
1978. 22P. MN (LA-UR-78-1345)
ROGERS, JOHN D., JR. (Q-DO)
BOENIG, HEINRICH J. (Q-10)
HASSENZAHN, WILLIAM V. (Q-10)
SCHERMER, ROBERT I. (Q-10)

15-10
SUPERCONDUCTING MAGNETIC ENERGY
STORAGE PROJECT AT LASL, JANUARY 1-
DECEMBER 31, 1976.

LASL,
1978. 71P. (LA-7132-PR)
HASSENZAHN, WILLIAM V. (Q-10) CO
BOENIG, HEINRICH J. (Q-10)
BRONSON, JOHN C. (Q-10)
COLYER, DUARD B. (Q-10)
FUKA, LOUIS R. (Q-26)
TURNER, ROBERT D. (Q-10)
SCHERMER, ROBERT I. (Q-10)

15-11
SUPERCONDUCTING MAGNETIC ENERGY
STORAGE PROJECT AT LASL JANUARY 1-
JUNE 30, 1977.

LASL,
1978. 28P. (LA-7150-PR)
HASSENZAHN, WILLIAM V. (Q-10) CO
BOENIG, HEINRICH J. (Q-10)
BRONSON, JOHN C. (Q-10)
HASSENZAHN, WILLIAM V. (Q-10)
SCHERMER, ROBERT I. (Q-10)
TURNER, ROBERT D. (Q-10)

15-12
SUPERCONDUCTING MAGNETIC ENERGY
STORAGE (SMES) PROGRAM, JANUARY 1-
DECEMBER 31, 1977.
LASL,
1978. 41P. (LA-7294-PR)
ROGERS, JOHN D., JR. (Q-DO) COMP.

15-13
SUPERCONDUCTING MAGNETIC ENERGY
STORAGE.
LASL
MINI-REVIEW. 1978. 4P.
(LASL-78-81)
KELLER, WILLIAM E. (Q-10)

15-14
THERMOCHEMICAL PROCESSES FOR
HYDROGEN PRODUCTION, AUGUST 1,
1977-FEBRUARY 28, 1978.
LASL,
1978. 12P. (LA-7234-PR)
COX, KENNETH E. (CMB-3) COMP.
BOWMAN, MELVIN G. (CMB-DO)
FARR, JOHN D. (CMB-3)
COX, KENNETH E. (CMB-3)
JONES, WESLEY M. (CMB-3)
PETERSON, CHARLES L. (CMB-3)

16. ENGINEERING AND EQUIPMENT

- 16-1
ANALOG 4-MHZ FIBER - OPTICS LINK.
LASL,
1978. 10P. (LA-7377-M)
NOEL, BRUCE W. (J-8)
- 16-2
ANALYSIS OF VENTILATION SYSTEMS
SUBJECTED TO TORNADO CONDITIONS,
MAY 1-SEPTEMBER 30, 1977.
LASL,
1978. 114P. (LA-7550-MS)
ANDRAE, RICHARD W. (WX-8)
DUERRE, KENNETH H. (WX-8)
DOVE, RICHARD C. (Q-13)
SMITH, MARK H.
GREGORY, WILLIAM S. (WX-8)
- 16-3
DESIGN AND TESTS OF A CONTROL SYSTEM FOR
THYRISTORIZED POWER SUPPLIES FOR
SUPERCONDUCTING COILS.
ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.1,
P.484-8. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
BOENIG, HEINRICH J. (Q-10)
RANKEN, W. S.
- 16-4
DOE-1 VERIFICATION PROGRAM PLAN.
LASL,
1978. 13P. (LA-7552-MS)
DIAMOND, STEPHEN C. (WX-4)
HUNN, BRUCE D. (WX-4)
MC DONALD, THOMAS E. (E-4)
- 16-5
ELECTROCHEMICAL HEAT ENGINE.
PATENTED
MAY 16, 1978, FILED 1977.
(U.S. PATENT-3,994,796)
ELLIOTT, GUY R. B. (G-7)
HOLLEY, CHARLES E., JR. (CNC-2)
HOUSEMAN, BARTON L.
SIBBITT, WILMER L., JR.
- 16-6
ENERGY - ENVIRONMENT SIMULATOR.
LASL
MINI-REVIEW. 1978. 4P. (LASL-78-70)
MAXWELL, G. BRUCE (E-DO)
- 16-7
FAST - RESPONSE CRYOGENIC
CALORIMETER CONTAINING A
52-KILOGRAM RADIATION ABSORBER.
TIC
1977. 11P. MN (LA-UR-77-515)
ALSO PUBLISHED IN:
ADVANCES IN CRYOGENIC
ENGINEERING, V.23, P.496-502.
K.D. TIMMERHAUS, ED. PLENUM,
1978.
BENDT, PHILIP J. (P-2)
YARNELL, JOHN L. (P-2)
- 16-8
FIBER OPTIC UTILIZATION AT
THE NEVADA TEST SITE.
ELECTRO-OPTICS/LASER 77
CONFERENCE AND EXPOSITION.
1977. ANAHEIM, CA. PROC.,
P.545-54. INDUSTRIAL AND
SCIENTIFIC CONFERENCE MANAGEMENT,
1977. (535/E380L 1977)
LYONS, PETER B. (J-14)
GOLOB, JOHN E. (E-3)
LOONEY, LARRY D. (J-14)
ROBICHAUD, R. E.
NELSON, M. A.
DAVIES, T. J.
- 16-9
FIBER OPTIC UTILIZATION AT THE
NEVADA TEST SITE.
LASL,
1978. 9P. (LA-7029-MS)
LYONS, PETER B. (J-14)
GOLOB, JOHN E.
LOONEY, LARRY D. (J-14)
ROBICHAUD, R. E.
NELSON, M. A.
DAVIES, T. J.
- 16-10
FIBER-OPTIC TIME DOMAIN
REFLECTOMETER.
TIC
1978. 6P. MN (LA-UR-78-824)
LYONS, PETER B. (J-14)
GOLOB, JOHN E. (E-DOR)
LOONEY, LARRY D. (J-14)
NELSON, M. A.
DAVIES, T. J.
- 16-11
FINAL REPORT ON NRIP-FUNDED MAGNETIC
REFRIGERATOR DEVELOPMENT PROJECT,
JULY 1, 1975-OCTOBER 1, 1977.
LASL,
1978. 4P. (LA-7111-MS)
STEYERT, WILLIAM A., JR. (Q-10)

16-12
INTERPRETATION OF PULSED EDDY
CURRENT (PEC) INSPECTION.
LASL,
1978: 12P. (LA-7459-MS)
LANGNER, GERALD C. (M-1)

16-13
INTERROGATION, AND DETECTION SYSTEM.
PATENTED
FEB. 21, 1978, FILED 1976.
(U.S. PATENT-4,075,632)
BALDWIN, HOWARD A.
DEPP, STEVEN W. (E-DO)
KOELLE, ALFRED R. (E-3)
FREYMAN, ROBERT W. (TD-7)

16-14
INVESTIGATION OF HEPA FILTERS
SUBJECTED TO TORNADO PRESSURE PULSES -
INITIAL STRUCTURAL TESTING.
LASL,
1978: 11P. (LA-7202-MS)
GREGORY, WILLIAM S. (WX-8)
HORAK, HENRY L. (WX-8)
SMITH, PHILLIP R.
RICKETTS, C. I.
GILL, W.

16-15
INVESTIGATION OF HEPA FILTERS
SUBJECTED TO TORNADO PRESSURE
PULSES. PRELIMINARY TESTS OF
INEFFECTIVE FILTRATION, JULY 1-
SEPTEMBER 30, 1977.
LASL,
1978: 14P. (LA-7362-PR)
HORAK, HENRY L. (WX-8)
GREGORY, WILLIAM S. (WX-8)
SMITH, PHILLIP R.
RICKETTS, C. I.

16-16
LOW FLOW VELOCITY, FINE-SCREEN
HEAT EXCHANGERS AND VAPOR - COOLED
CRYOGENIC CURRENT LEADS.
LASL,
1978: 43P. (LA-7395)
STEYERT, WILLIAM A., JR. (Q-10)
STONE, N. J.

16-17
MAGNETIC REFRIGERATOR DEVELOPMENT,
SEPTEMBER 1 - NOVEMBER 30, 1977.
LASL,
1978: 5P. (LA-7165-PR)
STEYERT, WILLIAM A., JR. (Q-10) COMP.

16-18
MAGNETIC REFRIGERATOR DEVELOPMENT,
MARCH 1-MAY 31, 1978.
LASL,
1978: 14P. (LA-7390-PR)
BARCLAY, JOHN A. (Q-10)
STEYERT, WILLIAM A., JR. (Q-10)

16-19
NEWLY DISCOVERED FAILURE MODE IN
HIGH ENERGY DENSITY, ENERGY STORAGE
CAPACITORS.
LASL,
1978: 5P. (LA-7376-MS)
BOICOURT, GRENFELL P. (CTR-11)
KEMP, EDWIN L., JR. (CTR-DO)

16-20
NUMERICAL SIMULATION OF WIND
FORCES ON STRUCTURES.
TIC,
1978: 12P. MN (LA-UR-77-2826)
HIRT, CYRIL W., JR. (T-3)
STEIN, LELAND R. (T-3)

16-21
ROTATING CARNOT CYCLE MAGNETIC
REFRIGERATORS FOR USE NEAR 2 K.
J. APPL. PHYS.
V. 49, P. 1227-31: 1978.
STEYERT, WILLIAM A., JR. (Q-10)

16-22
SIMPLE, FAST, PRECISE LENS DESIGN
PROCEDURE.
LASL
MINI-REVIEW. 1978. 4P.
(LASL-78-25)
BRIXNER, BERLYN (M-5)

16-23
SODIUM VAPOR HEAT PIPE LASER CELL.
TIC,
1978: 6P. MN (LA-UR-78-532)
DEVERALL, JOHN E. (Q-13)
YORK, G. (L-10)

16-24
STIRLING CYCLE ROTATING MAGNETIC
REFRIGERATORS AND HEAT ENGINES FOR
USE NEAR ROOM TEMPERATURE.
J. APPL. PHYS.
V. 49, P. 1216-26. 1978.
STEYERT, WILLIAM A., JR. (Q-10)

16-25
TVENT - A COMPUTER PROGRAM FOR
ANALYSIS OF TORNADO - INDUCED TRANSI
IN VENTILATION SYSTEMS.
LASL,
1978: 102P. (LA-7397-M)
DUERRE, KENNETH H. (WX-8)
ANDRAE, RICHARD W. (WX-8)
GREGORY, WILLIAM S. (WX-8)

16-26
TYPICAL VIDICON RESPONSES TO SHORT -
DURATION PULSED LIGHT AND FAST
SINGLE - FIELD READOUT.
LASL,
1978: 28P. (LA-7026)
YATES, GEORGE J. (J-12)
HOLMES, VANNER H., JR. (J-12)

16-27
UNDERGROUND STRESS ENGINEERING.
THE LIFTING AND STABILIZATION
OF UNDERGROUND VOIDS.

TIC,
1977. 27P. MN (LA-UR-77-844)
COLGATE, STIRLING A. (T-DOT)
PETSCHER, ALBERT G.
BROWNING, RICHARD V. (WX-3)
BOWERS, NORMAN

16-28
VENTILATION SYSTEM PRESSURE
TRANSIENTS. PROPOSED EXPERIMENTS
AND SHOCK TUBE CONCEPTUAL DESIGN.

LAST,
1978. 8P. (LA-7413-MS)
GREGORY, WILLIAM S. (WX-8)
SMITH, PHILLIP R.

17. ENVIRONMENTAL AND SAFETY ANALYSES

17-1

CONCEPTUAL DESIGN OF AN EMERGENCY
TRITIUM CLEAN-UP SYSTEM.

TIC,

1978. 10P. MN (LA-UR-78-1320)
MULLER, MARTIN (WX-4)

17-2

DOSIMETRY NEEDS FOR THE MAGNETIC
FUSION MATERIALS PROGRAM.

REACTOR DOSIMETRY. 1977.

(OCT.) ASTM-EURATOM SYMP. 2ND,
PALO ALTO. PROC. DOSIMETRY
METHODS FOR FUELS, CLADDING,
AND STRUCTURAL MATERIALS.

P.1017-30. (NUREG/CP-0004 V.3)

HEINRICH, R. R.

GREENWOOD, L. R.

ODETTE, G. R.

FARRAR, HARRY

DIERCKX, R.

GOLD, R.

17-3

ENERGY DEVELOPMENT AND THE UPPER
COLORADO RIVER BASIN OPTIMIZATION
MODEL.

LASL,

1978. 11P. (LA-7261-MS)
MORRIS, GLENN E. (S-2)

17-4

GROUND WATER USE AND FOSSIL FUEL
CONVERSION.

LASL,

1978. 6P. (LA-7492-P)
LOOSE, VERNE W. (S-2)

18. ENVIRONMENT CONTROL TECHNOLOGY AND EARTH SCIENCES

18-1
ATMOSPHERIC PARTICULATE SAMPLING
PROCEDURE FOR GRAVIMETRIC AND
ELEMENTAL ANALYSES.
J. AIR POLLUT. CONTROL ASSOC.,
V.28, P.55-7. 1978.
WANGEN, LAWRENCE E. (H-8)

18-2
CENOZOIC VOLCANIC GEOLOGY AND PROBABLE
AGE OF INCEPTION OF BASIN - RANGE
FAULTING IN THE SOUTHEASTERNMOST
CHOCOLATE MOUNTAINS, CALIFORNIA.
GEOL. SOC. AM. BULL.,
V.89, P.251-64. 1978.
CROWE, BRUCE M. (Q-21)

18-3
COMPARE-MOD 1. A CODE FOR THE
TRANSIENT ANALYSIS OF VOLUMES WITH
HEAT SINKS, FLOWING VENTS, AND
DOORS.
LASL,
1978. 66P. (LA-7199-MS)
GIDO, RICHARD C. (Q-6)
GILBERT, JOEL S. (Q-6)
LAWTON, ROBERT G. (G-3)
JENSEN, WALTON L.

18-4
DEVELOPMENT OF HIGH - TEMPERATURE
ACOUSTIC INSTRUMENTATION FOR
CHARACTERIZATION OF HYDRAULIC
FRACTURES IN DRY HOT ROCK.
INSTRUMENT SOCIETY OF AMERICA.
INTERNATIONAL INSTRUMENTATION SYMP.
1976 (MAY). 22ND, SAN DIEGO.
PREPRINT. ISA ASI 76222 (97-108)
ISA, 1976.
DENNIS, BERT R. (Q-22)
HILL, JAMES H. (Q-22)
STEPHANI, EVON L. (Q-22)
TODD, BILLY E. (Q-22)

18-5
DISPLACEMENTS AND STRESSES ABOUT
AN ARBITRARILY LOADED SPHEROIDAL
INCLUSION.
LASL,
1978. 36P. (LA-7035-MS)
NASHNER, ROBERT
WARREN, NICHOLAS W. (Q-21)

18-6
ELECTRICAL CONDUCTIVITY AND
VELOCITY ANOMALIES IN PARTIAL MELTS.
KIMBERLITE CONFERENCE. 1977.
2ND INTERNATIONAL, SANTA FE, NM.
EXTENDED ABSTRACTS, 2 PAGES.
THE CONFERENCE, 1977.
(549/K49I 1977 A)
SHANKLAND, THOMAS J. (G-6)

18-7
ESTIMATION OF EXPECTED VALUE AND
COEFFICIENT OF VARIATION FOR LOGNOR
AND GAMMA DISTRIBUTIONS.
LASL,
1978. 82P. (LA-7393-MS)
WHITE, GARY C. (H-12)

18-8
EXCAVATIONS ON MESITA DE LOS ALAMOS
LASL,
1978. 17P. (LA-7043-MS)
WORMAN, FREDERICK C. V.
STEEN, CHARLIE R.

18-9
EXPERIMENTAL PERMEABILITY STUDIES
AT ELEVATED TEMPERATURE AND
PRESSURE OF GRANITIC ROCKS.
LASL,
1978. 101P. THESIS, STANFORD
UNIV., 1978. (LA-7224-T)
POTTER, JARED MICHAEL

18-10
FIELD PROCEDURES FOR THE URANIUM
HYDROGEOCHEMICAL AND STREAM SEDIMENT
RECONNAISSANCE AS USED BY THE LOS
ALAMOS SCIENTIFIC LABORATORY.
LASL,
1978. 64P. (LA-07054-M)
SHARP, ROBERT R., JR. (G-5)
AAMODT, PAUL L. (G-5)

18-11
FURTHER STUDIES OF LONG - TERM
ECOLOGICAL EFFECTS OF EXPOSURE
TO URANIUM.
LASL,
1978. 27P. (LA-07162)
HANSON, WAYNE C. (H-12)
MIERA, FELIX R., JR. (H-12)

18-12
GERMANIUM DETECTOR SYSTEM FOR
THE DETECTION OF TRANSURANICS AT LOW
ACTIVITY CONCENTRATIONS IN SOIL.
TIC,
1978. 13P. MN (LA-UR-78-87)
WEST, LEON, JR. (H-1)
UMBARGER, C. JOHN (H-1)
DEMPSEY, THOMAS

18-13
GRAVITY SURVEY OF THE PAJARITO
PLATEAU LOS ALAMOS AND SANTA FE
COUNTIES, NEW MEXICO.
LASL,
1978. 15P. (LA-7419-MS)
BUDDING, A. J.

18-14
GROSS ALPHA ACTIVITY AS AN
ESTIMATOR OF RADIUM -226 ACTIVITY
IN SOILS AND TAILINGS AT AN
INACTIVE URANIUM MILL TAILINGS
SITE.

LASL,
1978. 6P. (LA-7529-MS)
DREESEN, DAVID R. (H-12)
WIENKE, CAROLINE (H-8)

18-15
HEAVY METHANES (MASS -20 AND -21)
AS ATMOSPHERIC TRACERS - A NEW
RESEARCH INITIATIVES PROJECT.

LASL,
1978. 93P. (LA-7321-MS)
GUTHALS, PAUL R. (CNC-11) COMP.
FOWLER, MALCOLM M. (CNC-11) COMP.
COWAN, GEORGE A. (CNC-DO)
BARR, SUMNER (G-8)
CLEMENTS, WILLIAM E. (G-8)
SEDLACEK, WILLIAM A. (CNC-11)

18-16
HYDROGEOCHEMICAL AND STREAM SEDIMENT
RECONNAISSANCE OF THE NATIONAL URANIUM
RESOURCE EVALUATION PROGRAM, APRIL-
JUNE 1977. THE ROCKY MOUNTAIN STATES
OF NEW MEXICO, COLORADO, WYOMING, AND
MONTANA, AND THE STATE OF ALASKA.

LASL,
1978. 28P. (LA-6992-PR)
BROXTON, DAVID E. (G-5)
NUNES, HENRY PAUL (G-5)

18-17
HYDROGEOCHEMICAL AND STREAM SEDIMENT
RECONNAISSANCE OF THE NATIONAL URANIUM
RESOURCE EVALUATION PROGRAM, JULY-
SEPTEMBER 1977. THE ROCKY MOUNTAIN
STATES OF NEW MEXICO, COLORADO,
WYOMING, AND MONTANA, AND THE STATE OF
ALASKA.

LASL,
1978. 14P. (LA-6993-PR)
NUNES, HENRY PAUL (G-5)
WEAVER, THOMAS A. (G-5)

18-18
HYDROGEOCHEMICAL AND STREAM SEDIMENT
RECONNAISSANCE OF THE NATIONAL
URANIUM RESOURCE EVALUATION PROGRAM.

LASL,
1978. 10P. (LA-7175-PR)
MORRIS, WAYNE A. (J-5)
BUNKER, MERLE E. (P-2)
STEINHAUS, DAVID W. (CMB-1)

18-19
INFLUENCE OF ACCESS HOLE PARAMETERS
ON NEUTRON MOISTURE PROBE READINGS.

LASL,
1978. 5P. (LA-7241-MS)
ABEELE, WILLY V. (H-8)

18-20
INVESTIGATIONS OF THE NATURAL FISSION
REACTOR PROGRAM, OCTOBER, 1977 -
SEPTEMBER, 1978.

LASL,
1978. 24P. (LA-7536-PR)
COWAN, GEORGE A. (CNC-DO) ED.
MORRIS, ANDREW E. (DIR OFF) ED.

18-21
MIGRATION PATHS FOR OKLO REACTOR
PRODUCTS AND APPLICATIONS TO THE
PROBLEM OF GEOLOGICAL STORAGE OF
NUCLEAR WASTES.

TIC,
1977. 8P. MN (LA-UR-77-2787)
COWAN, GEORGE A. (CNC-DO)

18-22
NORTHWEST NEW MEXICO BOUNDARY LAYER
EXPERIMENT.

LASL,
1978. 35P. (LA-7525-MS)
ARCHULETA, JOHN A. (H-8)
BARR, SUMNER (G-8)
CARLOS, ROBERT C. (J-10)
CLEMENTS, WILLIAM E. (G-8)
LABRY, JOHN (H-8)
WANGEN, LAWRENCE E. (CMB-8)
WILSON, SAMUEL K. (H-8)

18-23
NUMERICAL SIMULATION OF A VERY
LARGE EXPLOSION AT THE EARTH'S
SURFACE WITH POSSIBLE
APPLICATION TO TEKTITES.

IMPACT AND EXPLOSION
CRATERING. D.J. RODDY, ED.
P.1009-24. PERGAMON, 1977.
(551.4/B712C)
JONES, ERIC M. (J-9)
SANDFORD, MAXWELL T. (J-9)

18-24
PARTIAL MELT IN REGIONS OF
HIGH ELECTRICAL CONDUCTIVITY.
PARTIAL MELTING IN THE EARTH'S
UPPER MANTLE. 1976. AMERICAN
GEOPHYSICAL UNION, CHAPMAN
CONFERENCE, BROOKINGS, OR
AND THE JOSEPHINE PERIDOTITE.
PROC., MAGMA GENESIS,
P.215-8. OREGON DEPT. OF
GEOLOGY AND MINERAL
INDUSTRIES, 1977. (551.1/P273M)
SHANKLAND, THOMAS J. (Q-21)

18-25
PLUTONIUM, AMERICIUM, AND URANIUM
IN BLOW-SAND MOUNDS OF SAFETY-SHOT
SITES AT THE NEVADA TEST SITE AND
THE TONOPAH TEST RANGE.

TIC
1977. 73P. MN (LA-UR-78-645)
ESSINGTON, EDWARD H. (H-8)
GILBERT, RICHARD O.
WIREMAN, D. L.
BRADY, D. N.
FOWLER, ERIC B. (H-8)

18-26
POSSIBLE URANIUM - RUTHENIUM
METHOD FOR MEASUREMENT OF
ORE AGE.

TIC
1977. 7P. MN (LA-UR-77-2863)
MAECK, WILLIAM J.
APT, KENNETH E. (CNC-DO)
COWAN, GEORGE A. (CNC-DO)

18-27
PRELIMINARY DESIGN OF A PROTOTYPE
PARTICULATE STACK SAMPLER.

LASL
1978. 17P. (LA-7286-MS)
ELDER, JOHN C. (H-5)
LITTLEFIELD, LARRY (H-5)
TILLERY, MARVIN I. (H-5)
ETTINGER, HARRY J. (H-5-T)

18-28
PRELIMINARY OPTIMIZATION MODEL FOR
ASSESSMENT OF ENERGY DEVELOPMENT IN
THE ROCKY MOUNTAIN REGION.

LASL
1978. 58P. (LA-6689-MS)
HINMAN, GEORGE W.
KOLSTAD, CHARLES D. (Q-12)
MORRIS, GLENN E. (Q-12)
PALMER, RONALD G. (Q-12)
PENDLEY, ROBERT (Q-12)

18-29
PRELIMINARY PLANE TABLE MAP,
SODA DAM, JEMEZ SPRINGS, NM.

LASL
1978. (LA-7520-MAP)
GOFF, FRASER E. (G-6)
MAXWELL, JAMES C. (G-5)
STEWART, BRUCE S.

18-30
RAW DATA REPORT OF ELEMENTAL ANALYSES
FROM HYDROGEOCHEMICAL AND STREAM
SEDIMENT SAMPLES TAKEN NEAR STERLING
AND FORT MORGAN, NORTHEASTERN COLORADO,
DECEMBER 1976 AND JANUARY 1977.

LASL
1977. 27P. (LA-6740-MS)
MAXWELL, JAMES C. (G-5)

18-31
RECENT DEVELOPMENTS FOR FIELD
MONITORING OF ALPHA - EMITTING
CONTAMINANTS IN THE ENVIRONMENT.

HEALTH PHYS.
V.34, P.486-9. 1978.
AHLQUIST, A. JOHN (H-8)
UMBARGER, C. JOHN (H-1)
STOKER, ALAN K. (H-8)

18-32
RESIDUAL BOUGUER GRAVITY ANOMALY MAP
OF NEW MEXICO.

LASL
1978. (LA-07466-MAP)
AIKEN, CARLOS L. V.
LAUGHLIN, A. WILLIAM (G-9)
WEST, FRANCIS G. (G-9)

18-33
SCALING OF CRATERING EXPERIMENTS -
AN ANALYTICAL AND HEURISTIC
APPROACH TO THE PHENOMENOLOGY.

PLANETARY CRATERING
MECHANICS. 1976. SYMPOSIUM,
FLAGSTAFF, AZ. PROC. IMPACT
AND EXPLOSION CRATERING, PLANETARY
AND TERRESTRIAL IMPLICATIONS. D.J.
RODDY, ED. P.1165-90. PERGAMON,
1977. (551.4/P712C)
KILLIAN, BARBARA GERMAIN (J-9)
GERMAIN, LAWRENCE S. (J-DOT)

18-34
SEARCH FOR OTHER NATURAL FISSION
REACTORS.

TIC
1977. 15P. MN (LA-UR-77-2796)
APT, KENNETH E. (CNC-DO)
BALAGNA, JOHN P., JR. (CNC-11)
BRYANT, ERNEST A. (CNC-11)
COWAN, GEORGE A. (CNC-DO)
DANIELS, WILLIAM R. (CNC-11)
VIDALE, ROSEMARY J. (CNC-11)

18-35
SEISMIC INVESTIGATION OF THE NUCLEAR
FUEL SERVICES, INC., REPROCESSING
PLANT AT WEST VALLEY, NEW YORK.

LASL
1978. 33P. (LA-7087-MS)
ENDEBROCK, ELTON G. (WX-8)
BARTHOLOMEW, ROBERT J. (WX-8)
BENNETT, JOEL G. (Q-13)
BRASIER, ROBERT I.
CORCORAN, WILLIAM F. (WX-8)

18-36
SOIL SURVEY OF LOS ALAMOS COUNTY,
NEW MEXICO.

LASL
1978. 102P. AND MAPS.
(LA-6779-MS)
NYHAN, JOHN W. (H-12)
HACKER, L. W.
CALHOUN, T. E.
YOUNG, D. L.

18-37
SOME ATMOSPHERIC TRACER EXPERIMENTS
IN COMPLEX TERRAIN AT LASL.
EXPERIMENTAL DESIGN AND DATA.

LASL,
1978. 38P. (LA-7198-MS, VOL.1)
ARCHULETA, JOHN A. (H-8)
BARR, SUMNER (G-8)
CLEMENTS, WILLIAM E. (G-8)
GEDAYLOO, TEYMOOR
WILSON, SAMUEL K. (H-8)

18-38
SORPTION - DESORPTION STUDIES OF
NEVADA TEST SITE ALLUVIUM AND
LEACHING STUDIES OF NUCLEAR TEST
DEBRIS.

LASL,
1978. 32P. (LA-7216-MS)
WOLFSBERG, KURT (CNC-11)

18-39
STATISTICAL THEORY OF FRAGMENTATION.

TIC,
1978. 6P. MN (LA-UR-78-616)
DIENES, JOHN K. (T-3)

18-40
SUMMARY OF THE SEISMIC ANALYSES OF THE
NUCLEAR FUEL SERVICES REPROCESSING
PLANT AT WEST VALLEY, NEW YORK.

LASL,
1978. 11P. (LA-7185-MS)
ENDEBROCK, ELTON G. (WX-8)

18-41
TEMPORAL CHANGES IN THE DISTRIBUTION
OF CESIUM-137 IN ALLUVIAL SOILS AT
LOS ALAMOS.

LASL,
1978. 11P. (LA-7298-MS)
NYHAN, JOHN W. (H-8)
HAKONSON, THOMAS E. (H-8)
MIERA, FELIX R., JR. (H-12)
BOSTICK, KENNETH V. (H-8)

18-42
TILTS ASSOCIATED WITH VOLCANIC
ACTIVITY, GUADELOUPE, FRENCH WEST
INDIES, FALL 1976.

LASL,
1978. 10P. (LA-7500-MS)
WEST, FRANCIS G. (G-9)
HEIKEN, GRANT (G-6)
HOMUTH, EMIL F. (G-2)
PETERSON, ROBERT W. (J-14)
CROWE, BRUCE M. (G-6)
WOHLETT, KENNETH H. (G-6)

18-43
TWO NEW PORTABLE SURVEY
INSTRUMENTS. THE FIELD PHOSWICH
DETECTOR AND THE WEE PEE WEE.

TIC,
1978. 20P. MN (LA-UR-78-48)
UMBARGER, C. JOHN (H-1)
WOLF, MICHAEL ALLEN (E-1)

18-44
URANIUM CONCENTRATIONS IN STREAM
WATERS AND SEDIMENTS FROM
SELECTED SITES IN THE EASTERN
SEWARD PENINSULA, KOYUKUK, AND
CHARLEY RIVER AREAS, AND ACROSS
SOUTH - CENTRAL ALASKA.

LASL,
1978. 39P. AND PLATES.
(LA-6649-MS)
SHARP, ROBERT R., JR. (G-5)
HILL, DWIGHT E. (G-5)

18-45
URANIUM HYDROGEOCHEMICAL AND
STREAM SEDIMENT RECONNAISSANCE
DATA FROM THE AREA OF THE TELLER,
BENDELEBEN, CANDLE AND KATEEL
RIVER QUADRANGLES, SEWARD
PENINSULA AND VICINITY,
ALASKA.

LASL,
1978. 161P. AND PLATES.
(LA-6844-MS)
SHARP, ROBERT R., JR. (G-5)
HILL, DWIGHT E. (G-5)

18-46
URANIUM HYDROGEOCHEMICAL AND
STREAM SEDIMENT RECONNAISSANCE
DATA FROM THE AREA OF THE SEISMAREF
KOTZEBUE, SELAWIK AND SHUNGNAK
QUADRANGLES, NORTHERN SEWARD
PENINSULA AND VICINITY, ALASKA.

LASL,
1978. 94P. AND PLATES.
(LA-6845-MS)
WARREN, RICHARD G. (G-5)
HILL, DWIGHT E. (G-5)
SHARP, ROBERT R., JR. (G-5)

18-47
URANIUM HYDROGEOCHEMICAL AND
STREAM SEDIMENT RECONNAISSANCE
OF THE DENVER AND GREELEY NTMS
QUADRANGLES, COLORADO.

LASL,
1978. 138P. AND MAPS.
(LA-7177-MS)
BOLIVAR, STEPHEN L. (G-5)
BROXTON, DAVID E. (G-5)
OLSEN, CLAYTON E. (G-5)

18-48
URANIUM HYDROGEOCHEMICAL AND
STREAM SEDIMENT RECONNAISSANCE
OF THE RAWLINS NTMS QUADRANGLE,
WYOMING.

LASL,
1978. 73P. AND PLATES.
(LA-7179-MS)
WEAVER, THOMAS A. (G-5)
MORRIS, WAYNE A. (G-5)
TREXLER, PAMELA K. (G-5)

18-49
URANIUM HYDROGEOCHEMICAL AND
STREAM SEDIMENT RECONNAISSANCE
DATA RELEASE FOR THE NEW MEXICO
PORTIONS OF THE HOBBS AND
BROWNFIELD NTMS QUADRANGLES,
NEW MEXICO / TEXAS.

LASL,
1978. 61P. AND PLATES.
(LA-7182-MS)
WARREN, RICHARD G. (G-5)
NUNES, HENRY PAUL (G-5)

18-50
URANIUM HYDROGEOCHEMICAL AND
STREAM SEDIMENT RECONNAISSANCE
OF THE TULAROSA NTMS QUADRANGLE,
NEW MEXICO.

LASL,
1978. 85P. AND PLATES.
(LA-7217-MS)
BROXTON, DAVID E. (G-5)

18-51
URANIUM HYDROGEOCHEMICAL AND
STREAM SEDIMENT RECONNAISSANCE
DATA RELEASE FOR THE STERLING
NTMS QUADRANGLE, COLORADO.

LASL,
1978. 57P. AND PLATES.
(LA-7305-MS)
NUNES, HENRY PAUL (G-5)

18-52
URANIUM HYDROGEOCHEMICAL AND STREAM
SEDIMENT RECONNAISSANCE OF THE
NORTHERN PART OF THE POWDER RIVER
BASIN, WYOMING.

LASL,
1977. 80P. (LA-6654-MS)
MORRIS, WAYNE A. (J-5)

18-53
URANIUM HYDROGEOCHEMICAL AND STREAM
SEDIMENT RECONNAISSANCE DATA FROM
THE AREA OF THE NOATAK AND PORTIONS
OF THE BAIRD MOUNTAINS AND AMBLER
RIVER QUADRANGLES, ALASKA.

LASL,
1978. 74P. AND PLATES.
(LA-6846-MS)
HILL, DWIGHT E. (G-5)
SHARP, ROBERT R., JR. (G-5)

18-54
URANIUM HYDROGEOCHEMICAL AND STREAM
SEDIMENT RECONNAISSANCE IN
SOUTHWESTERN MONTANA.

LASL,
1978. 95P. AND MAPS.
(LA-6981)
BROXTON, DAVID E. (G-5)

18-55
URANIUM HYDROGEOCHEMICAL AND STREAM
SEDIMENT RECONNAISSANCE OF THE
EKALAKA NTMS QUADRANGLE,
MONTANA.

LASL,
1978. 71P. (LA-7069-MS)
CHANEY, DAN S. (G-5)
POLIVAR, STEPHEN L. (G-5)

18-56
URANIUM HYDROGEOCHEMICAL AND STREAM
SEDIMENT PILOT STUDY OF THE BOULDER
BATHOLITH, MONTANA.

LASL,
1978. 118P. (LA-7176-MS)
AAMODT, PAUL L. (G-5)

18-57
URANIUM HYDROGEOCHEMICAL AND STREAM
SEDIMENT RECONNAISSANCE DATA
RELEASE FOR THE MONTANA PORTION
OF THE HAMILTON, MONTANA/IDAHO,
NTMS QUADRANGLE.

LASL,
1978. 45P. (LA-7178-MS)
AAMODT, PAUL L. (G-5)

18-58
URANIUM HYDROGEOCHEMICAL AND STREAM
SEDIMENT RECONNAISSANCE DATA RELEASE
OF THE DOUGLAS, SILVER CITY, CLIFTON,
AND SAINT JOHNS NTMS QUADRANGLES,
NEW MEXICO/ARIZONA.

LASL,
1978. 123P. (LA-07180-MS)
SHARP, ROBERT R., JR. (G-5)
MORRIS, WAYNE A. (G-5)
AAMODT, PAUL L. (G-5)

18-59
URANIUM HYDROGEOCHEMICAL AND STREAM
SEDIMENT RECONNAISSANCE DATA RELEASE FOR
THE WYOMING PORTIONS OF THE DRIGGS,
PRESTON, AND OGDEN NTMS QUADRANGLES.

LASL,
1978. 93P. (LA-07181-MS)
BROXTON, DAVID E. (G-5)
NUNES, HENRY PAUL (G-5)

18-60
URANIUM HYDROGEOCHEMICAL AND STREAM
SEDIMENT RECONNAISSANCE OF THE
PUEBLO NTMS QUADRANGLE,
COLORADO.

LASL,
1978. 77P. AND PLATES.
(LA-7341-MS)
SHANNON, SPENCER S., JR. (G-5)

18-61
URANIUM HYDROGEOCHEMICAL AND STREAM
SEDIMENT RECONNAISSANCE OF THE RATON
NTMS QUADRANGLE, NEW MEXICO.

LASL,
1978. 84P. AND PLATES.
(LA-7344-MS)
MORGAN, TERRANCE L. (G-5)
BROXTON, DAVID E. (G-5)

18-62
URANIUM HYDROGEOCHEMICAL AND STREAM
SEDIMENT RECONNAISSANCE OF THE
TRINIDAD NTMS QUADRANGLE, COLORADO.

LASL,
1978. 79P. AND PLATES.
(LA-07345-MS)
MORRIS, WAYNE A. (G-5)
LA DELFE, CAROL M. (G-5)
WEAVER, THOMAS A. (G-5)

18-63
URANIUM HYDROGEOCHEMICAL STREAM
SEDIMENT RECONNAISSANCE OF THE
AZTEC NTMS QUADRANGLE,
NEW MEXICO.

LASL,
1978. 75P. AND PLATES.
(LA-7238-MS)
BOLIVAR, STEPHEN L. (G-5)

18-64
URANIUM MILL TAILINGS - ENVIRONMENTAL
IMPLICATIONS.

LASL,
MINI-REVIEW, 1978. 4P.
(LASL-77-37)
DREESEN, DAVID R. (H-8)

18-65
URANIUM SOLUBILITIES IN THE
OKLO REACTOR ZONES.

TIC,
1977. 9P. MN (LA-UR-77-2818)
DUFFY, CLARENCE J. (CNC-11)

18-66
VISIBILITY ISSUE IN THE ROCKY MOUNTAIN
WEST.

TIC,
1977. 45P. MN (LA-UR-77-2558)
LEONARD, ELLEN M. (Q-12)
WILLIAMS, MICHAEL D.
MUTSCHLECHNER, J. PAUL

18-67
VORP, AN IMPROVED DETECTOR
SYSTEM FOR REMOTE MEASUREMENTS.

TIC,
1978. 18P. MN (LA-UR-78-26)
SMALE, RICHARD F. (H-1)
BACKSEN, MICHAEL H. (E-5)

18-68
WATER QUALITY IN THE VICINITY OF
FENTON HILL SITE, 1977.

LASL,
1978. 16P. (LA-7468-PR)
PURTYMUN, WILLIAM D. (H-8)
STOKER, ALAN K. (H-8)
ADAMS, WARREN H. (H-7)
OWENS, JAMES W. (H-8)

18-69
WATER QUALITY IN VICINITY OF
FENTON HILL SITE, 1976.

LASL,
1978. 17P. (LA-7307-MS)
PURTYMUN, WILLIAM D. (H-8)
ADAMS, WARREN H. (H-7)
STOKER, ALAN K. (H-8)

18-70
WATER SUPPLY AT LOS ALAMOS
DURING 1977.

LASL,
1978. 38P. (LA-7436-MS)
PURTYMUN, WILLIAM D. (H-8)

18-71
1978 INTERNATIONAL SYMPOSIUM ON THE
RIO GRANDE RIFT, OCTOBER 8-17, 1978,
SANTA FE, NEW MEXICO, USA. PROGRAM
AND ABSTRACTS.

LASL,
1978. 105P. (LA-7487-C)
OLSEN, KENNETH H. (G-2)
CHAPIN, CHARLES E.

CHA

19. EXPERIMENTAL PLASMA PHYSICS

- 19-1
ABSOLUTE RADIATION MEASUREMENT AND
COMPARISON WITH TOTAL ENERGY LOSS.
HIGH-TEMPERATURE PLASMA DIAGNOSTICS.
1978. 2ND TOPICAL CONF., SANTA FE,
NM. ABSTRACTS, P.90. (LA-7160-C)
HOWELL, ROBERT B. (CTR-2)
HABERSTICH, ALBERT (CTR-2)
KARR, HUGH J. (CTR-2)
- 19-2
AUTOMATED COMPUTER ANALYSIS OF PLASMA -
STREAK TRACES FROM SCYLLAC.
TIC,
1977. 22P. MN (LA-UR-77-2582)
WHITMAN, ROLLIN L. (M-8)
JAHODA, FRANZ C. (CTR-8)
KRUGER, RICHARD (M-8)
- 19-3
COLLECTIVE ION ACCELERATION, JULY 1976-
SEPTEMBER 1977.
LASL,
1978. 281P. (LA-7148-PR)
GODFREY, BRENDAN B. (T-15)
FAEHL, R. J. (T-15)
NEWEERGER, BARRY S. (T-15)
SHANAHAN, WILLIAM R. (T-15)
THODE, LESTER E. (T-15)
- 19-4
COMPUTER ANALYSIS OF 2-D
HOLOGRAPHIC INTERFEROGRAMS.
HIGH-TEMPERATURE PLASMA DIAGNOSTICS.
1978. 2ND TOPICAL CONF., SANTA FE,
NM. ABSTRACTS, P.65. (LA-7160-C)
CONRAD, ROSEMARY (CTR-8)
FREESE, KENNETH B. (CTR-8)
- 19-5
DESIGN CONSIDERATIONS FOR THE AIR
FORCE WEAPONS LABORATORY FX25
PLASMA HEATING EXPERIMENT.
LASL,
1978. 9P. (LA-7233-MS)
THODE, LESTER E. (T-15)
- 19-6
DIAGNOSTIC FOR MEASUREMENT OF
RADIATED ENERGY FROM A TOROIDAL PLASMA.
LASL,
1978. 11P. (LA-7273)
HOWELL, ROBERT B. (CTR-2)
KARR, HUGH J.
- 19-7
HETERODYNE INTERFEROMETRY.
HIGH-TEMPERATURE PLASMA DIAGNOSTICS.
1978. 2ND TOPICAL CONF., SANTA FE,
NM. ABSTRACTS, P.48. (LA-7160-C)
KRISTAL, RICHARD (CTR-8)
- 19-8
HETERODYNE QUADRATURE INTERFEROMETER
FOR SIMULTANEOUS MEASUREMENTS OF PL
DENSITY ALONG SEVERAL CHORDS.
REV. SCI. INSTRUM.
V.49, P.673-4. 1978.
JACOBSON, ABRAM R. (CTR-2)
- 19-9
LASER - PLASMA INTERACTION IN A
THETA - PINCH GEOMETRY.
LASL,
1978. 152P. THESIS, UNIV. OF
COLORADO, 1978. (LA-7302-T)
ARMSTRONG, WILLIAM T. (CTR-11)
- 19-10
MEASUREMENT OF LINE DENSITY WITH
A MULTI-PASS INTERFEROMETER.
HIGH-TEMPERATURE PLASMA DIAGNOSTICS.
1978. 2ND TOPICAL CONF., SANTA FE,
NM. ABSTRACTS, P.61. (LA-7160-C)
ARMSTRONG, WILLIAM T. (CTR-3)
MILLER, GUTHRIE (CTR-3)
- 19-11
MEASUREMENTS OF THE PLASMA ABLATED
FROM AN END PLUG IN A HIGH ENERGY
THETA PINCH USING RUBY LASER SIDE-
VIEWING HOLOGRAPHIC INTERFEROMETRY.
HIGH-TEMPERATURE PLASMA DIAGNOSTICS.
1978. 2ND TOPICAL CONF., SANTA FE,
NM. ABSTRACTS, P.60. (LA-7160-C)
EKDAHL, CARL A., JR. (CTR-3)
COMMISSO, ROBERT J. (CTR-3)
MC KENNA, KENNETH F. (CTR-3)
SIEMON, RICHARD E. (CTR-3)
- 19-12
ON PLASMA TRANSPORT AND FLOW
IN THE FLUID PICTURE.
LASL,
1978. 19P. (LA-7429-MS)
MILLER, GUTHRIE (CTR-3)
- 19-13
PRELIMINARY INVESTIGATION OF
ANOMALOUS RELATIVISTIC ELECTRON
BEAM DEPOSITION INTO A 10(17) TO
10(20)CM-3 DENSITY PLASMA.
LASL,
1978. 21P. (LA-7215-MS)
THODE, LESTER E. (T-15)

19-14
SCYLLA IV-P COMPUTER BASED CONTROL AND
DATA ACQUISITION SYSTEM.

ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.2,
P.1213-6. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
ALSO PUBLISHED IN:

TIC
1977. 5P. MN (LA-UR-77-2405)
CONRAD, ROSEMARY (CTR-8)
LILLBERG, JOHN W. (CTR-8)
WILKINS, RONALD W. (CTR-8)

19-15
SECOND TOPICAL CONFERENCE ON HIGH -
TEMPERATURE PLASMA DIAGNOSTICS. 1978
(MAR.1-3). SANTA FE, NM. PROGRAM AND
ABSTRACTS.

LASL,
1978. 115P. (LA-7160-C)
JAHODA, FRANZ C. (CTR-8) COMP.
FREESE, KENNETH B. (CTR-8) COMP.

19-16
SUMMARY OF SCYLLAC RESULTS.

LASL,
1978. 27P. (LA-7125-MS)
SIEMON, RICHARD E. (CTR-3)

19-17
TEMPERATURE DIAGNOSTICS USING
LI-LIKE SATELLITES.
HIGH-TEMPERATURE PLASMA DIAGNOSTICS.
1978. 2ND TOPICAL CONF., SANTA FE,
NM. ABSTRACTS, P.83. (LA-7160-C)
DATLA, R. U.
JONES, LARRY A. (P-3)
THOMSON, DAVID B. (P-3)

19-18
TESTING TRANSIENT RECORDER LINEARITY.
HIGH-TEMPERATURE PLASMA DIAGNOSTICS.
1978. 2ND TOPICAL CONF., SANTA FE,
NM. ABSTRACTS, P.67. (LA-7160-C)
KLARE, KENNETH A. (CTR-8)

20. FUSION SYSTEMS

20-1
AIR DRIVEN FIBER OPTIC COUPLED
PULSER SYSTEM FOR ZT-40.
ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.1,
P.415-7. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
ALSO PUBLISHED IN:
TIC,
1977. 4P. MN (LA-UR-77-2407)
NUNNALLY, WILLIAM C. (CTR-11)
BROUSSEAU, ARMAND T. (CTR-11)

20-2
ANALYSIS OF A DC COMMUTATOR
MACHINE FOR EXCHANGE OF ENERGY
WITH A SUPERCONDUCTING COIL.
LASL,
1978. 14P. (LA-7447-MS)
VOGEL, HERBERT F. (CTR-9)

20-3
CIRCUIT AND PLASMA SIMULATION
FOR THE DESIGN OF ZT-40.
ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.1,
P.501-5. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
ALSO PUBLISHED IN:
TIC,
1977 5P. MN (LA-UR-77-2333)
BOICOURT, GRENFELL P. (CTR-11)

20-4
CONCEPTUAL DESIGN OF AN EMERGENCY
TRITIUM CLEAN - UP SYSTEM.
LASL,
1978. 9P. AND APPEND.
(LA-7136-MS)
MULLER, MARTIN (WX-4)

20-5
COST-CONSTRAINED DESIGN POINT
FOR THE REVERSED-FIELD PINCH
REACTOR (RFPR).
TIC,
1978. 12P. MN (LA-UR-78-1397)
HAGENSON, RANDY L. (CTR-12)
KRAKOWSKI, ROBERT A. (CTR-12)

20-6
CURRENT CONTROL BY A HOMOPOLAR MACHINE
WITH MOVING BRUSHES.
LASL,
1978. 8P. (LA-7090-MS)
VOGEL, HERBERT F. (CTR-9)

20-7
DESIGN AND FABRICATION OF A RADIAL
FED IMPLSION HEATING COIL.
ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.1,
P.830-3. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
ALSO PUBLISHED IN:
TIC,
1977. 5P. MN (LA-UR-77-2452)
HANSBOROUGH, LASH D. (MP-14)
DICKINSON, JAMES M. (CMB-6)
MELTON, JIMMY G. (CTR-11)
NUNNALLY, WILLIAM C. (CTR-11)

20-8
DEVELOPMENT OF A LOW - COST, 10-KV
CAPACITOR.
ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.2,
P.1757-9. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
ALSO PUBLISHED IN:
TIC,
1977. 4P. MN (LA-UR-77-2408)
KEMP, EDWIN L., JR. (CTR-DO)
BOICOURT, GRENFELL P. (CTR-11)
BICKFORD, K. JAMES (CTR-4)

20-9
DEVELOPMENT OF THE SWITCHING
COMPONENTS FOR ZT-40.
TIC,
1977. 4P. MN (LA-UR-77-2440)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.2,
P.1076-8. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
MELTON, JIMMY G. (CTR-11)
DIKE, ROBERT S. (CTR-4)
HANKS, KENNETH W. (CTR-4)
NUNNALLY, WILLIAM C. (CTR-11)

20-10
ENGINEERING DESCRIPTION OF THE LASL
ZT-40 TOROIDAL Z-PINCH.
ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.1,
P.655-8. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
ALSO PUBLISHED IN:
TIC,
1977. 5P. MN (LA-UR-77-2441)
HAMMER, CHARLES F. (CTR-4)
DIKE, ROBERT S. (CTR-4)
NUNNALLY, WILLIAM C. (CTR-11)

- 20-11
 FEEDBACK STABILIZATION OF A
 LAMBDA EQUALS 0,1,2 HIGH BETA
 STELLARATOR.
 NUCL. FUSION,
 V.18, P.1027-49. 1978.
 BARTSCH, R. R. (CTR-3)
 CANTRELL, EMMETT L. (CTR-3)
 GRIBBLE, ROBERT F. (CTR-3)
 KLARE, KENNETH A. (CTR-8)
 KUTAC, KENNETH J. (CTR-4)
 MILLER, GUTHRIE (CTR-3)
 QUINN, WARREN E. (CTR-DO)
- 20-12
 FEEDBACK STABILIZATION OF AN L=0,1,2
 HIGH - BETA STELLARATOR.
 LASL,
 1978. 28P. (LA-7243)
 BARTSCH, R. R. (CTR-3)
 CANTRELL, EMMETT L. (CTR-3)
 GRIBBLE, ROBERT F. (CTR-3)
 KLARE, KENNETH A. (CTR-8)
 KUTAC, KENNETH J. (CTR-4)
 MILLER, GUTHRIE (CTR-3)
 QUINN, WARREN E. (CTR-3)
- 20-13
 FUELING BY COAXIAL PLASMA GUNS.
 TIC
 1977. 5P. MN (LA-UR-77-2533)
 MARSHALL, JOHN, JR. (CTR-DO)
- 20-14
 HEAT TRANSFER PROBLEMS ASSOCIATED
 WITH LASER FUSION.
 AIChE SYMPOSIUM SERIES, 168,
 V.73, HEAT TRANSFER IN
 THERMONUCLEAR POWER SYSTEMS.
 P.77-85. W. E. STEWART, ED.
 AIChE, 1977. (660/AM512SY 168)
 FRANK, THURMAN G. (L-5)
 BOHACHEVSKY, I. O. (L-5)
 BOOTH, LAWRENCE A. (L-5)
 PENDERGRASS, JOHN H. (L-5)
- 20-15
 MATERIAL END - PLUGGING FOR THE SCYLLA
 IV-P LINEAR THETA PINCH.
 ENGINEERING PROBLEMS OF FUSION
 RESEARCH. 1977. SYMP. 7TH,
 KNOXVILLE, TN. PROC., V.2,
 P.1031-4. M.S. LUBELL, ED.
 IEEE, 1977. (537/S989EN 1977)
 ALSO PUBLISHED IN:
 TIC
 1977. 5P. MN (LA-UR-77-2453)
 HANSBOROUGH, LASH D. (MP-14)
 COLE, THEODORE R. (CTR-4)
 COMMISSO, ROBERT J. (CTR-3)
 WILLIAMSON, KENNETH D., JR. (CTR-9)
- 20-16
 MINIMUM - THICKNESS BLANKET/SHIELD
 WITH OPTIMUM TRITIUM BREEDING
 AND SHIELDING EFFECTIVENESS.
 TIC
 1978. 11P. MN (LA-UR-78-1198)
 GERSTL, S. A. W. (T-1)
- 20-17
 NUCLEONIC ASPECTS OF SYNFUEL
 BLANKETS.
 LASL,
 1978. 8P. (LA-7485-MS)
 DUDZIAK, DONALD J. (T-1)
 WOODRUFF, GENE L.
- 20-18
 NUCLEONIC ASPECTS OF THE LINUS
 IMPLoding BLANKET.
 TIC
 1978. 9P. MN (LA-UR-78-1197)
 DUDZIAK, DONALD J. (T-1)
- 20-19
 NUCLEONICS OF THE FAST - LINER
 REACTOR (FLR) CONCEPTUAL DESIGN.
 TRANS. AM. NUCL. SOC.,
 V.30, P.622-3. 1978.
 SORAN, PATRICK D. (TD-6)
 DUDZIAK, DONALD J. (T-1)
- 20-20
 PARAMETRIC STUDY OF PLASMA STARTUP
 SYSTEMS FOR TOKAMAKS.
 ENGINEERING PROBLEMS OF FUSION
 RESEARCH. 1977. SYMP. 7TH,
 KNOXVILLE, TN. PROC., V.2,
 P.1129-31. M.S. LUBELL, ED.
 IEEE, 1977. (537/S989EN 1977)
 ALSO PUBLISHED IN:
 TIC
 1977. 4P. MN (LA-UR-77-2472)
 VOGEL, HERBERT F. (CTR-9)
- 20-21
 RIGGATRON NUCLEONICS. ONE -
 DIMENSIONAL ANALYSIS.
 LASL,
 1978. 7P. (LA-7183-MS)
 WIENKE, BRUCE R. (T-1)
 DUDZIAK, DONALD J. (T-1)
 BOSLER, GERALD E. (T-1)
- 20-22
 SCOPING NUCLEONIC STUDIES FOR THE
 RIGGATRON FUSION REACTOR CONCEPT.
 TIC
 1978. 8P. MN (LA-UR-78-964)
 WIENKE, BRUCE R. (T-1)
 DUDZIAK, DONALD J. (T-1)
 BOSLER, GERALD E. (T-1)

20-23
SPARK GAP OVERPRESSURES IN THE 0.2
MEGAMPERE RANGE.

ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.2,
P.1779-81. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
BURKHARDT, LOUIS C. (CTR-2)
DIKE, ROBERT S. (CTR-4)

20-24
SURVEY OF LINEAR MAGNETIC
FUSION REACTORS.

TIC,
1978. 19P. MN (LA-UR-78-1319)
KRAKOWSKI, ROBERT A. (CTR-12)

20-25
TNS DOUBLET TOKAMAK OHMIC - HEATING
POWER SUPPLY STUDY.

LASL,
1978. 91P. (LA-7053-MS)
ROGERS, JOHN D., JR. (CTR-9) COMP.

20-26
TOKAMAK EQUILIBRIA WITH BETA
CLOSE TO 1.

TIC,
1977. 14P. MN (LA-UR-77-2864)
VAN DER LAAN, PIETER C. (CTR-DO)
MANN, LAWRY W. (CTR-10)

20-27
TOROIDAL FUSION REACTOR DESIGN
BASED ON THE REVERSED - FIELD
PINCH.

LASL,
1978. THESIS, IOWA STATE U.,
AMES. 1978. 96P. (LA-7399-T)
HAGENSON, RANDY L. (CTR-12)

20-28
TOROIDAL HELICAL QUARTZ - FORMING
MACHINE.

ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.1,
P.144-6. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
ALSO PUBLISHED IN:

TIC,
1977. 4P. MN (LA-UR-77-2363)
HANKS, KENNETH W. (CTR-4)
COLE, THEODORE R. (CTR-4)

20-29
VOLTAGES IN TOROIDAL PINCH
EXPERIMENTS.

LASL,
1978. 13P. (LA-7335-MS)
VAN DER LAAN, PIETER C. (CTR-DO)

21. GEOTHERMAL ENERGY--DRILLING TECHNOLOGY

21-1 ADVANCED TURBODRILLS FOR GEOTHERMAL WELLS.

TIC
1978. 4P. MN (LA-UR-78-1239)
MAURER, W. C.
ROWLEY, JOHN C. (G-DOT)
CARWILE, CLIFTON

21-2 ANOMALOUS FRACTURE - EXTENSION PRESSURE IN GRANITIC ROCKS.

TIC
1978. 24P. MN (LA-UR-78-548)
AAMODT, R. LEE (G-3)
POTTER, ROBERT M. (G-3)

21-3 BOREHOLE TEMPERATURE SURVEY ANALYSIS - HOT DRY ROCK GEOTHERMAL RESERVOIR.

TIC
1978. 5P. MN (LA-UR-78-905)
DENNIS, BERT R. (G-4)
MURPHY, HUGH D. (G-4)

21-4 GEOTHERMAL DRILLING IN HOT GRANITIC ROCK.

TIC
1978. 4P. MN (LA-UR-78-907)
WILLIAMS, RAY E. (G-4)

22. GEOTHERMAL ENERGY--ENVIRONMENTAL RESEARCH

22-1
ENVIRONMENTAL ASSESSMENT OF
DISSOLVED GASES IN LASL'S HOT DRY
ROCK GEOTHERMAL SOURCE
DEMONSTRATION PROJECT.

TIC.

1978. 5P. MN (LA-UR-78-919)
GUTSCHICK, VINCENT P. (G-3)
REA, KENNETH H. (H-12)

23. GEOTHERMAL ENERGY--EXPLORATION TECHNOLOGY

23-1
EQUIPMENT DEVELOPMENT REPORT -
DOWNHOLE FLUID INJECTOR.
LASL,
1978. 12P. AND PLATES.
(LA-7151-MS)
ARCHULETA, JACOBO R. (G-4)
FINK, CONRAD F. (G-4)
KURTENBACH, JOSEPH (SD-5)

23-2
EQUIPMENT DEVELOPMENT REPORT -
BOREHOLE - FLUID SAMPLING TOOL.
LASL,
1978. 13P. AND PLATES.
(LA-7152-MS)
ARCHULETA, JACOBO R. (G-4)
FINK, CONRAD F. (G-4)
KURTENBACH, JOSEPH (SD-5)

23-3
HOT DRY ROCK ENERGY PROJECT.
TIC,
1977. 26P. MN (LA-UR-77-2744)
HENDRON, ROBERT H. (G-4)

23-4
HOT DRY ROCK GEOTHERMAL ENERGY
DEVELOPMENT PROJECT CABLEHEAD
ASSEMBLY. EQUIPMENT DEVELOPMENT
REPORT.
LASL,
1978. 8P AND PLATES.
(LA-7325-MS)
ARCHULETA, JACOBO R. (G-4)
TODD, BILLY E. (G-4)

23-5
MAGNETIC INDUCTION TECHNIQUE FOR
MAPPING VERTICAL CONDUCTIVE FRACTURES.
ELECTRONIC DESIGN.
LASL,
1978. 17P. (LA-7426-MS)
LANDT, JEREMY A. (E-DOR)
KOELLE, ALFRED R. (E-5)
TRUMP, MICHAEL A. (E-4)
NICKELL, J. DONALD, JR. (E-5)

24. GEOTHERMAL ENERGY--RESOURCE DEVELOPMENT

24-1 DEVELOPMENT OF HOT DRY ROCK RESOURCES.

TIC.
1978. 11P. MN (LA-UR-78-1336)
PETTITT, ROLAND A. (G-4)
TESTER, JEFFERSON W. (G-3)

24-2 EXPERIMENTAL ALTERATION OF A GRANODIORITE IN A CIRCULATION SYSTEM.

TIC.
1978. 5P. MN (LA-UR-78-926)
CHARLES, ROBERT W. (CNC-11)

24-3 HOT DRY ROCK - A NEW GEOTHERMAL ENERGY SOURCE.

V.3, P.639-44. 1978.
MORTENSEN, JEANNETTE J. (G-DOT)

24-4 HOT DRY ROCK ENERGY EXTRACTION OPERATIONS.

TIC.
1978. 5P. MN (LA-UR-78-904)
HENDRON, ROBERT H. (G-4)

24-5 HOT DRY ROCK GEOTHERMAL ENERGY DEVELOPMENT PROJECT. ANNUAL REPORT, FISCAL YEAR 1977.

LASL,
1978. 294P. (LA-7109-PR)
HDR PROJECT STAFF

24-6 HOT DRY ROCK, AN ALTERNATE GEOTHERMAL ENERGY RESOURCE - A CHALLENGE FOR INSTRUMENTATION.

TIC.
1978. 14P. MN (LA-UR-78-707)
DENNIS, BERT R. (G-4)
HORTON, EVERETT H. (G-4)

24-7 INITIAL RESULTS FROM THE FIRST LOS ALAMOS HOT DRY ROCK ENERGY SYSTEM.

TIC.
1978. 10P. MN (LA-UR-78-937)
SMITH, MORTON C. (G-DOT)

24-8 LASL HOT DRY ROCK GEOTHERMAL ENERGY DEVELOPMENT PROJECT.

TIC.
1978. 4P. MN (LA-UR-78-906)
HILL, JAMES H. (G-4)

24-9 PROCEEDINGS OF HOT DRY ROCK GEOTHERMAL WORKSHOP, APRIL 20-21, 1978, HELD AT LOS ALAMOS SCIENTIFIC LABORATORY, LOS ALAMOS, NEW MEXICO.

LASL,
1978. 63P. (LA-7470-C)
ELSNER, DORIS B. (G-3) COMP.

24-10 SEISMIC REFLECTION SURVEYS NEAR LASL GEOTHERMAL SITE.

LASL,
1978. 17P. (LA-7228-MS)
KINTZINGER, PAUL R. (G-6)
REYNOLDS, CHARLES B.
WEST, FRANCIS G. (G-6)
SUHR, G.

24-11 THERMAL DRAWDOWN AND RECOVERY OF SINGLY AND MULTIPLY FRACTURED HOT DRY ROCK RESERVOIRS.

LASL,
1978. 15P. (LA-7219-MS)
WUNDER, RAINER
MURPHY, HUGH D. (G-4)

24-12 THERMAL EVOLUTION MODELS FOR THE VALLES CALDERA WITH REFERENCE TO A HOT DRY ROCK GEOTHERMAL EXPERIMENT.

J. VOLCANOL. GEOTHERM. RES.,
V.3, P.197-218. 1978.
KOLSTAD, CHARLES D. (Q-12)
MC GETCHIN, THOMAS R. (G-6)

24-13 THERMAL STRESS CRACKING AND ENHANCEMENT OF HEAT EXTRACTION FROM FRACTURED GEOTHERMAL RESERVOIRS.

TIC.
1978. 4P. MN (LA-UR-78-917)
MURPHY, HUGH D. (G-3)

24-14 THERMAL STRESS CRACKING AND THE ENHANCEMENT OF HEAT EXTRACTION FROM FRACTURED GEOTHERMAL RESERVOIRS.

LASL,
1978. 17P. (LA-7235-MS)
MURPHY, HUGH D. (G-4)

24-15
URANIUM HYDROGEOCHEMICAL AND STREAM
SEDIMENT RECONNAISSANCE OF THE
CHEYENNE NTMS QUADRANGLE,
WYOMING.

LASL,

1978. 67P. AND PLATES.

(LA-7237-MS)

TREXLER, PAMELA K. (G-5)

25. GAS COOLED REACTOR TECHNOLOGY

25-1
CHAP-II. A TRANSIENT SIMULATION
CODE FOR THE FORT ST. VRAIN HIGH
TEMPERATURE GAS COOLED REACTOR.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.90-1. LASL, 1978. (LA-7417-C)
SECKER, PHILLIP A., JR. (Q-6)
LAZARUS, ROGER B. (Q-6)

25-2
FUEL PARTICLE COATING DATA.
LASL,
1977. 37P. (LA-6558-MS)
HOLLABAUGH, CHARLES M. (CMB-3)
WAGNER, PAUL (CMB-8)
WAHMAN, LYLE A. (CMB-8)
WHITE, RALPH W. (CMB-8)

25-3
GASEOUS FUEL REACTORS FOR POWER SYSTEMS.
ENERGY CONVERSION ENGINEERING
CONFERENCE. 1978. 13TH INTERSOCIETY,
SAN DIEGO, CA. PROC., V.2,
P.1306-11. SAE, 1978.
(621.31/E56C 1978 V.2)
HELMICK, HERBERT H. (Q-8)
SCHWENK, FRANCIS C.

25-4
IMPROVED GRAPHITE MATRIX FOR
COATED-PARTICLE FUEL.
LASL,
1978. 14P. (LA-7423)
SCHELL, DONALD H. (CMB-6)
DAVIDSON, KEITH V. (CMB-6)

25-5
LASAN. A GENERAL PURPOSE
TRANSIENT SYSTEMS ANALYSIS PROGRAM.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.33. LASL, 1978. (LA-7417-C)
SECKER, PHILLIP A., JR. (Q-6)
LAZARUS, ROGER B. (Q-6)

25-6
ROLE OF TRANSITION AND LANTHANIDE
METAL CARBONYLS IN VARIOUS HTGR
SAFETY - RELATED PROBLEMS.
THERMAL REACTOR SAFETY.
1977. TOPICAL MEETING, SUN VALLEY,
ID. PROC., P.3-332--3-356. ANS,
1977. (CONF-770708)
BEHRENS, ROBERT G. (CMB-3)

25-7
SUVIUS. A CIRCULATING AND PLATEOUT
ACTIVITY PROGRAM FOR GAS - COOLED
REACTORS WITH ARBITRARY RADIOACTIVE
CHAINS.
LASL,
1978. 41P. AND MICROFICHE.
(LA-07239-MS)
APPERSON, COURTNEY E., JR. (Q-1)

26. GENERAL, REACTOR TECHNOLOGY

26-1
APPLICATION OF STATISTICAL
TECHNIQUES TO THE ANALYSIS OF
REACTOR SAFETY CODES.

TIC,
1978. 17P. MN (LA-UR-78-805)
MC KAY, MICHAEL D. (Q-12)
BOLSTAD, JOHN W. (Q-6)
WHITEMAN, DAVID E. (Q-12)

26-2
AUTOMATIC SAMPLE CHANGERS
MAINTENANCE MANUAL.

LASL,
1978. 24P. (LA-6759-M)
MYERS, THOMAS A. (CNC-11)

26-3
BACKGROUND CROSS SECTION METHOD
AS A GENERAL TOOL FOR REACTOR
ANALYSIS.

TIC,
1978. 11P. MN (LA-UR-78-1004)
MAC FARLANE, ROBERT E. (T-2)
KIDMAN, RUSSELL B. (T-2)
LABAUVE, RAPHAEL J. (T-2)
BECKER, MARTIN

26-4
COCONVERSION OF URANIUM-PLUTONIUM
NITRATE SOLUTION TO OXIDE, JULY 1 -
SEPTEMBER 30, 1978.

LASL,
1978. 19P. (LA-7530-PR, VOL.1)
BOWERSOX, DAVID F. (CMB-11)
COBB, DONALD D. (Q-4)
DAYEM, HASSAN ALY (Q-4)
ENSSLIN, NORBERT (Q-1)
SHIPLEY, JAMES P. (Q-4)
SMITH, DARRYL B. (Q-4)
SPEIR, LESLIE GAYLE (Q-1)
SPIRIO, CARMELO A. (Q-1)
TAPE, JAMES W. (Q-1)
WALTON, RODDY B. (Q-1)

26-5
COMPUTATIONAL PROCEDURES FOR
MULTIDIMENSIONAL CORE ANALYSIS.

TIC,
1978. 13P. MN (LA-UR-78-888)
LATHROP, KAYE D. (Q-DO)

26-6
COMPUTER ENHANCEMENT AND MENSURATION
OF FUEL PIN IMAGERY.

IEEE TRANS. NUCL. SCI.,
V. NS-25, P. 248-54. 1978,
KRUGER, RICHARD (M-8)
BERZINS, GEORGE J. (J-12)
HAN, KI S. (J-12)

26-7
COSTS OF ELECTRONUCLEAR FUEL
PRODUCTION.

LASL,
1978. 8P. (LA-7382-MS)
FLAIM, THERESA (S-2)
LOOSE, VERNE W. (S-2)

26-8
FINE ENERGY CROSS SECTION SPACE
SHIELDING FOR DOUBLY HETEROGENEOUS
REACTOR CORES.

TRANS. AM. NUCL. SOC.,
V. 30, P. 716-7. 1978.
STAMATELATOS, MICHAEL G.
LABAUVE, RAPHAEL J. (T-2)

26-9
GASEOUS FUEL REACTORS FOR POWER
SYSTEMS.

TIC,
1978. 7P. MN (LA-UR-78-1437)
HELMICK, HERBERT H. (Q-8)
SCHWENK, FRANCIS C.

26-10
HEAT PIPE NUCLEAR REACTORS
FOR SPACE APPLICATIONS.

TIC,
1978. 8P. MN (LA-UR-78-643)
KOENIG, DANIEL R. (Q-13)
RANKEN, WILLIAM A. (Q-13)

26-11
INDUSTRIAL TOMOGRAPHY APPLIED TO
REACTOR SAFETY.

TIC,
1977. 14P. MN (LA-UR-77-2564)
KRUGER, RICHARD (M-8)

26-12
LINER CONCRETE HEAT TRANSFER
STUDY FOR NUCLEAR POWER PLANT
CONTAINMENTS.

LASL,
1978. 46P. (LA-7089-MS)
GIDO, RICHARD G. (Q-6)

26-13
NEW CONDENSATION MASS REMOVAL MODEL
FOR CONTAINMENT ANALYSIS.

TRANS. AM. NUCL. SOC.,
V. 30, P. 372-4. 1978.
LAMKIN, DAVID E. (Q-6)
GIDO, RICHARD G. (Q-6)

26-14
NUCLEAR REACTOR SAFETY -
QUARTERLY PROGRESS REPORT -
JANUARY 1 - MARCH 31, 1978.
LASL,
1978. 120P. (LA-7278-PR)
JACKSON, JAMES F. (Q-DO) COMP.
STEVENSON, MICHAEL G. (Q-DO) COMP.

26-15
NUCLEAR REACTOR SAFETY. QUARTERLY
PROGRESS REPORT, APRIL 1 -
JUNE 30, 1978.
LASL,
1978. 183P. (LA-7481-PR)
JACKSON, JAMES F. (Q-DO) COMP.
STEVENSON, MICHAEL G. (Q-DO) COMP.

26-16
PINHOLE IMAGING OF A TEST
FUEL ELEMENT AT THE TRANSIENT
REACTOR TEST FACILITY.
NUCL. SCI. ENG.
V.65, P.28-40. 1978.
BERZINS, GEORGE J. (J-12)
HAN, KI S. (J-12)

26-17
REACTOR DOSIMETRY CALIBRATIONS IN
THE BIG TEN CRITICAL ASSEMBLY.
REACTOR DOSIMETRY. 1977.
(OCT.) ASTM-EURATOM SYMP. 2ND,
PALO ALTO. PROC. DOSIMETRY
METHODS FOR FUELS, CLADDING,
AND STRUCTURAL MATERIALS.
P.1205-6. (NUREC/CP-0004 V.3)
BARR, DONALD W. (CNC-11)
HANSEN, GORDON E. (Q-14)

26-18
REACTOR TECHNOLOGY - JANUARY -
MARCH 1978.
LASL,
1978. 43P. (LA-7316-PR)
WARREN, JOHN L. (Q-DO) ED.

26-19
REACTOR TECHNOLOGY, APRIL-JUNE 1978.
LASL,
1978. 31P. (LA-7449-PR)
WARREN JOHN L. (Q-DO) ED.

26-20
REACTOR TECHNOLOGY, JULY - SEPTEMBER
1977.
LASL,
1978. 41P. (LA-7137-PR)
WARREN, JOHN L. (Q-DO)

26-21
REACTOR TECHNOLOGY, OCTOBER-DECEMBER
1977.
LASL,
1978. 35P. (LA-7210-PR)
WARREN, JOHN L. (Q-DO) ED.

26-22
TRANSPORT AND REACTOR THEORY,
OCTOBER 1-DECEMBER 31, 1977.
LASL,
1978. 23P. (LA-7131-PR)
MILLER, WARREN F., JR. (T-1)
DUDZIAK, DONALD J. (T-1)
O'DELL, R. DOUGLAS (T-1)
GOMEZ, MARY FRANCES (T-1)

26-23
TRANSPORT AND REACTOR THEORY,
JANUARY 1-MARCH 31, 1978.
LASL,
1978. 30P. (LA-7271-PR)
MILLER, WARREN F., JR. (T-1) COMP.
DUDZIAK, DONALD J. (T-1) COMP.
O'DELL, R. DOUGLAS (T-1) COMP.
GOMEZ, MARY FRANCES (T-1) COMP.

26-24
TRANSPORT AND REACTOR THEORY,
APRIL 1 - JUNE 30, 1978.
LASL,
1978. 24P. (LA-7435-PR)
MILLER, WARREN F., JR. (T-1)
DUDZIAK, DONALD J. (T-1)
O'DELL, R. DOUGLAS (T-1)
ALCOUFFE, RAYMOND E. (T-1)
GOMEZ, MARY FRANCES (T-1)

26-25
TRANSPORT AND REACTOR THEORY,
JULY 1 - SEPTEMBER 30, 1978.
LASL,
1978. 30P. (LA-7554-PR)
MILLER, WARREN F., JR. (T-1)
DUDZIAK, DONALD J. (T-1)
O'DELL, R. DOUGLAS (T-1)
ALCOUFFE, RAYMOND E. (T-1)
GOMEZ, MARY FRANCES (T-1)

26-26
TRISTAN I - TECHNIQUES, CAPABILITIES
AND ACCOMPLISHMENTS.
TIC,
1977. 24P. MN (LA-UR-78-523)
TALBERT, W. L., JR. (Q-14)

27. GENERAL, MISCELLANEOUS, AND PROGRESS REPORTS (NONNUCLEAR)

- 27-1
BOOK REVIEW. AMORY B. LOVINS'
"SOFT ENERGY PATHS - TOWARD A
DURABLE PEACE" AND LOVINS' AND
PIERCE'S "NON-NUCLEAR FUTURES -
THE CASE FOR AN ETHICAL ENERGY
STRATEGY".
ENVIRON. MANAGE.
V.2, P.365-6. 1978.
COX, KENNETH E. (CMB-3)
- 27-2
COMPUTER ASSISTED COST ESTIMATING AT
LOS ALAMOS SCIENTIFIC LABORATORY.
AESOP CONFERENCE PROC.
V.17. BOSTON, SEPT. 1977.
(CONF-770937)
ALSO PUBLISHED IN:
TIC
1977. 10P. MN (LA-UR-77-2070)
SPOONER, JAMES E. (ENG-DO)
STUTZ, ROGER ALAN (ENG-8)
- 27-3
E-DIVISION SEMIANNUAL REPORT,
JANUARY 1 - JUNE 30, 1978.
LASL,
1978. 76P. (LA-7502-PR)
KEATON, P. W., JR. (E-DO)
KELLEY, PATRICIA A. (E-DO) COMP.
- 27-4
E-DIVISION SEMIANNUAL REPORT, JUNE 1 -
DECEMBER 31, 1977.
LASL,
1978. 89P. (LA-7149-PR)
KEATON, P. W., JR. (E-DO)
KELLEY, PATRICIA A. (E-DO) COMP.
- 27-5
ENERGY DEVELOPMENT VS WATER
QUALITY IN THE UPPER COLORADO
AND UPPER MISSOURI RIVER BASINS.
LASL,
1978. 76P. (LA-7497-MS)
S-2 GROUP
- 27-6
ENERGY SYSTEMS AND STATISTICS,
OCTOBER-DECEMBER 1977.
LASL,
1978. 27P. (LA-7240-PR)
SNYDER, ELIZABETH A. (Q-12) COMP.
- 27-7
ENERGY SYSTEMS AND STATISTICS,
JANUARY - MARCH 1978.
LASL,
1978. 24P. (LA-7462-PR)
SNYDER, ELIZABETH A. (Q-12) COMP.

- 27-8
ENERGY SYSTEMS AND STATISTICS, JULY -
SEPTEMBER 1977.
LASL,
1978. 24P. (LA-7154-PR)
SNYDER, ELIZABETH A. (Q-12) COMP.
- 27-9
GUIDEBOOK FOR NEWS MEDIA RELATIONS.
LASL,
1978. 19P. (LASL-77-28)
PUBLIC INFORMATION OFFICE
- 27-10
HIGH-TEMPERATURE ELECTRONICS
WORKSHOP. PROGRESS IN THE DEVELOPMENT
OF MICROELECTRONICS FOR THE 500 DEGREE
CENTIGRADE ENVIRONMENT. HELD AT
LOS ALAMOS SCIENTIFIC LABORATORY,
LOS ALAMOS, NEW MEXICO, JANUARY
4-6, 1978.
LASL,
1978. 5P. (LA-7409-C)
MC CORMICK, J. FYRON (E-4) ED.
- 27-11
IMPLEMENTATION OF DISTRIBUTED
PROCESSING FOR ADMINISTRATIVE
APPLICATIONS.
TIC
1978. 16P. MN (LA-UR-78-1100)
HALL, JAMES W. (AADP-DO)
- 27-12
LAMPF PROPOSAL STATUS AND
SUMMARIES.
LASL,
1978. 239P. (LA-07444-SR)
RAYBURN, LOIS L. (MP-DO) COMP.
TALLEY, BEVERLY H. (MP-DO) COMP.
- 27-13
LASL'S FY 1978 SUPPORTING RESEARCH
PROGRAM.
LASL,
1978. 13P. (LA-7471-MS)
HAMMEL, EDWARD F., JR. (DIR OFF)
MERLAN, STEPHEN J. (DIR OFF)
FREIWALD, DAVID A. (DIR OFF)
- 27-14
MECHANISMS FOR LASL/UNIVERSITY
INTERACTIONS.
LASL,
1978. 15P. (LASL-77-31)
FREIWALD, DAVID A. (DIR-C)
LAYMEN, EDWARD R. (PER-DO)

27-15
MICROFILM INDEX AND RETRIEVAL
TECHNIQUES.
ARMA Q.
V. 12, NO. 4, P. 23-6, 40. 1978.
HEIMBACH, DAVID A. (ISD-5)

27-16
MODULARIZED SIMULATION OF ELECTRIC
CAR PERFORMANCE.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J. J. RUMINER, COMP.
P. 89. LASL, 1978. (LA-7417-C)
NACHAMKIN, JACK (E-DOR)
BOBBETT, RONALD E. (E-4)
DEROUIN, CHARLES (E-DO)
LYNN, DAVID (E-4)
MC CORMICK, J. BYRON (E-4)

27-17
PUBLICATIONS OF LASL RESEARCH, 1977.
LASL,
1978. 189P. AND MICROFICHE.
(LA-7248-MS)
PETERSEN, LOIS F

27-18
SENSITIVITY ANALYSIS TECHNIQUES.
A CASE STUDY.
LASL,
1978. 29P. (LA-7549-MS)
MC KAY, MICHAEL D. (S-1)
FORD, ANDREW (S-2)
MOORE, GLENN H. (Q-12)
WITTE, KATHLEEN H. (C-3)

27-19
SYSTEMS, ANALYSIS, AND ASSESSMENT,
APRIL - JUNE 1978.
LASL,
1978. 28P. (LA-7526-PR)
RONQUILLO, ELIZABETH A. (S-DO) COMP.

27-20
SYSTEMS, ANALYSIS, AND ASSESSMENT,
JULY - SEPTEMBER, 1978.
LASL,
1978. 26P. (LA-7573-PR)
RONQUILLO, ELIZABETH A. (S-DO) COMP.

27-21
WELCOME TO LOS ALAMOS...
LASL,
1978. 54P. (LASL-77-25)
MC FARLAND, LARRY C. (ISD-6) COMP.
FREIWALD, DAVID A. (DIR-O) COMP.

28. GENERAL, MISCELLANEOUS, AND PROGRESS REPORTS (NUCLEAR)

28-1
ASSESSING NONNUCLEAR INTERCEPTOR
LETHALITY TO BALLISTIC MISSILE
WARHEADS.

28-7
U.S. DEFENSE PROBLEM AS IT PERTAINS
TO BATTLEFIELD NUCLEAR WEAPONS.
LASL,
1978. 13P. (LA-7173-MS)
SHREFFLER, ROBERT G.

CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.48. LASL, 1978. (LA-7417-C)
MERSON, JEAN L. (WX-8)
TUCKER, EDWIN K. (WX-8)
WHEAT, BILLIE M. (WX-8)

28-2
LONG RANGE PROJECTIONS, 1977-1983.
I. THE DIRECTOR'S STATEMENT.
CONGRESS. 95TH. 2ND SESSION.
HOUSE OF REPRESENTATIVES. COMMITTEE
ON SCIENCE AND TECHNOLOGY. ROLE OF
THE NATIONAL ENERGY LABORATORIES IN
ERDA AND DEPARTMENT OF ENERGY
OPERATIONS - RETROSPECT AND
PROSPECT. REPORT. P.156-63. GPO,
1978. (328/C95.2 78-4)
AGNEW, HAROLD M. (DIR)

28-3
MID-INFRARED OPTICALLY PUMPED
LASERS.
LASL,
1978. 16P. (LA-7331-MS)
JONES, CLAUDE R. (AP-2)

28-4
MK 12A/W78 AFT SUPPORT EVALUATION.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.7-8. LASL, 1978. (LA-7417-C)
KEYSER, RICHARD CHESTER (WX-1)

28-5
NUCLEAR FISSION ENERGY FUEL
CYCLE OPTIONS.
LASL
MINI-REVIEW. 1978. 4P.
(LASL-78-15)
FREIWALD, DAVID A. (DIR-O)

28-6
RESEARCH ATTITUDES VS FUNDING.
ADVANCEMENT OF RESEARCH.
1977. (OCT.) NATIONAL CONFERENCE.
31ST, ALBUQUERQUE, NM. PROC.,
P.19-22. S.A. JOHNSON, ED.
DENVER RESEARCH INST., 1978.
(607/C748A 31ST)
AGNEW, HAROLD M. (DIR)

29. GEOTHERMAL ENERGY

29-1
EXPERIMENTAL GEOTHERMAL LOOP,
1M295 DEGREE C STUDY.
LASL,
1978. 44P. (LA-7334-MS)
CHARLES, ROBERT W. (CNC-11)

29-2
GEOTHERMAL ENERGY - FURNACE AT OUR
FEET.
LASL,
1977. UNPAGED. (LASL-77-23)
LOS ALAMOS SCIENTIFIC LABORATORY

30. HEALTH AND SAFETY

30-1
ADVANCES IN ALPHA AIR MONITORING
INSTRUMENTATION.

TIC
1978. 13P. MN (LA-UR-78-1150)
VALENTINE, ALLEN M. (H-1)

30-2
ADVANCES IN HUMAN INTERNAL
RADIATION COUNTING AT LOS ALAMOS.
MULTIPLE SIMULTANEOUS IN - VIVO
MEASUREMENTS.

TIC
1978. 12P. MN (LA-UR-78-1063)
UMBARGER, C. JOHN (H-1)
WEST, LEON, JR. (H-1)

30-3
AEROSOL RESEARCH AND DEVELOPMENT
RELATED TO HEALTH HAZARD ANALYSIS
JULY 1, 1976-JUNE 30, 1977.

LASL
1978. 39P. (LA-7380-PR)
FAIRCHILD, CHARLES I. (H-5)
ORTIZ, LAWRENCE W. (H-5)
TILLERY, MARVIN I. (H-5)
ETTINGER, HARRY J. (H-5)

30-4
AEROSOL SAMPLING AND CHARACTERIZATION
OR HAZARD EVALUATION, OCTOBER 1,
1976 - SEPTEMBER 30, 1977.

LASL
1978. 19P. (LA-7537-PR)
SCRIPSICK, RONALD C. (H-5)
GRAY, DOUGLAS C. (H-5)
TILLERY, MARVIN I. (H-5)
STAFFORD, RONALD G. (H-1)
ROMERO, PABLO O. (H-1)

30-5
AIR SAMPLING AND ANALYSIS OF
CARCINOGENS.

LASL
MINI-REVIEW. 1978. 4P. (LASL-78-6)
MORALES, RAUL (H-5)

30-6
CALIBRATION OF PERSONNEL DOSIMETERS.

TIC
1977. 17P. MN (LA-UR-77-2613)
STORM, ELLERY (H-1)
CORTEZ, JOSEPH R. (H-1)
LITTLEJOHN, GEORGE J. (H-1)

30-7
COMPARISON OF A SODIUM CHLORIDE AEROSOL
FILTER TEST METHOD TO SILICA - DUST
AND SILICA - MIST FILTER TEST METHODS.

AM. IND. HYG. ASSOC. J.,
V.39, P.709-16. 1978.
LOWRY, PHILIP L. (H-5)
REVOIR, WILLIAM H.

30-8
CONTROLLED - AIR INCINERATION
STUDIES AT THE LOS ALAMOS
SCIENTIFIC LABORATORY.

TIC
1978. 19P. MN (LA-UR-78-1065)
BORDUIN, LEON C. (H-7)
NEULS, ALLEN S. (H-7)
THOMPSON, THOMAS K. (H-7)
WARNER, CHARLES L. (H-7)

30-9
DEVELOPMENT OF AIR - MONITORING
TECHNIQUES USING SOLID SORBENTS,
LASL PROJECT R-059, NIOSH-IA-77-12,
OCTOBER 1, 1976 - DECEMBER 31, 1977.

LASL
1978. 41P. AND APPEND.
(LA-7295-PR)
WOOD, GERRY O. (H-5) PROJECT DIRECT
NICKOLS, JOYCE W. (H-5)

30-10
DEVELOPMENT OF SAMPLING AND ANALYTICAL
METHODS FOR CARCINOGENS,
OCTOBER 1, 1976-DECEMBER 31, 1977.

LASL
1978. 24P. (LA-7375-PR)
MORALES, RAUL (H-5)
STAMPFER, JOSEPH F., JR. (H-5)
HERMES, ROBERT E. (H-5)
CAMPBELL, EVAN E. (H-5)
ETTINGER, HARRY J. (H-5)

30-11
ENVIRONMENTAL AND RADIOLOGICAL
SAFETY STUDIES OCTOBER 1 - DECEMBER
31, 1977. INTERACTION OF PLUTONIUM
238 DIOXIDE HEAT SOURCES WITH
TERRESTRIAL AND AQUATIC ENVIRONMENTS.

LASL
1978. 31P. (LA-7172-PR)
WATERBURY, GLENN R. (CMB-1) COMP.

30-12
ENVIRONMENTAL AND RADIOLOGICAL
SAFETY STUDIES JANUARY 1 - MARCH 31,
1978 INTERACTION OF PLUTONIUM -238
DIOXIDE HEAT SOURCES WITH TERRESTRIAL
AND AQUATIC ENVIRONMENTS.

LASL
1978. 33P. (LA-7309-PR)
WATERBURY, GLENN R. (CMB-1) COMP.

30-13
ENVIRONMENTAL AND RADIOLOGICAL
SAFETY STUDIES, JULY 1-SEPTEMBER 30,
1978, INTERACTION OF ²³⁸PUO₂ HEAT
SOURCES WITH TERRESTRIAL AND
AQUATIC ENVIRONMENTS.
LASL,
1978, 37P. (LA-7577-PR)
WATERBURY, GLENN R. (CMB-1) COMP.

30-14
ENVIRONMENTAL AND RADIOLOGICAL SAFETY
STUDIES, APRIL 1 - JUNE 30, 1978.
INTERACTION OF PLUTONIUM DIOXIDE -238
HEAT SOURCES WITH TERRESTRIAL AND
AQUATIC ENVIRONMENTS.
LASL,
1978, 36P. (LA-7420-PR)
WATERBURY, GLENN R. (CMB-1) COMP.

30-15
ENVIRONMENTAL SURVEILLANCE AT LOS
ALAMOS DURING 1977.
LASL,
1978, 83P. (LA-7263-MS)
ENVIRONMENTAL SURVEILLANCE GROUP

30-16
INDUSTRIAL HYGIENE CONTROL OF TOXIC
MATERIALS IN RESEARCH LABORATORIES.
AMERICAN CHEMICAL SOCIETY.
NATIONAL MEETING, 1978 (MAR.)
175TH, ANAHEIM, CA. ABSTRACTS OF
PAPERS, CHSA 15.
CAMPBELL, EVAN E. (H-5)
ETTINGER, HARRY J. (H-5)
SCHULTE, HARRY F. (H-5)
DE FIELD, JAMES D. (H-5)

30-17
INTEGRATED MINICOMPUTER ALPHA
ANALYSIS SYSTEM.
TIC,
1978, 33P. MN (LA-UR-77-2968)
VASILIK, DENNIS G. (H-1)
COY, DALE E. (E-5)
SEAMONS, MAX (E-5)
HENDERSON, RICHARD W. (H-1)
ROMERO, LEONARD L. (H-1)
THOMSON, DEBRA ANN (H-1)

30-18
MULTIPLE HEPA FILTER TEST METHODS,
JANUARY - DECEMBER 1977.
LASL,
1978, 31P. (LA-7489-PR)
SCHUSTER, BURTON G. (H-5)
KYLE, THOMAS GAIL (H-5)
OSETEK, DANIEL J.

30-19
MULTIPLE-MIRROR AXIAL CONFINEMENT
USING THE FLUID MODEL.
LASL,
1978, 11P. (LA-7580-MS)
MILLER, GUTHRIE (CTR-3)

30-20
NEUTRON RESPONSE OF A NEW
ALBEDO NEUTRON DOSIMETER.
TIC,
1978, 18P. MN (LA-UR-78-40)
BLACKSTOCK, ALBERT W. (H-1)
CORTEZ, JOSEPH R. (H-1)
LITTLEJOHN, GEORGE J. (H-1)
STORM, ELLERY (H-1)

30-21
PERMEATION OF METHANOLIC
AROMATIC AMINE SOLUTIONS
THROUGH COMMERCIALY AVAILABLE
GLOVE MATERIALS.
AM. IND. HYG. ASSOC. J.,
V.38, P.721-5, 1977.
WEEKS, ROBERT W. (H-5)
DEAN, BRENDA J. (H-5)

30-22
PHOTON AND BETA RESPONSE OF A NEW
THERMOLUMINESCENT DOSIMETER BADGE.
TIC,
1977, 17P. MN (LA-UR-77-3001)
CORTEZ, JOSEPH R. (H-1)
STORM, ELLERY (H-1)
LITTLEJOHN, GEORGE J. (H-1)

30-23
PLAGUE! THE SHOCKING STORY OF A
DREAD DISEASE IN AMERICA TODAY.
CHARLES SCRIBNER'S SONS,
1978, 278P. (614.5/G819P)
GREGG, CHARLES T.

30-24
PRELIMINARY STUDY OF RADIUM -
CONTAMINATED SOILS.
LASL,
1978, 45P. (LA-7391-MS)
HEALY, JOHN W. (H-DO)
RODGERS, JOHN C. (H-12)

30-25
RESPIRATOR PROTECTION FACTORS -
PART I. DEVELOPMENT OF AN
ANTHROPOMETRIC TEST PANEL.
AM. IND. HYG. ASSOC. J.,
V.39, P.970-5, 1978.
HACK, ALAN L. (H-5)
MC CONVILLE, JOHN T.

30-26
RESPIRATOR STUDIES FOR THE DOE
DIVISION OF OPERATIONAL AND
ENVIRONMENTAL SAFETY, OCTOBER 1,
1976-SEPTEMBER 30, 1977.
LASL,
1978, 71P. (LA-6969-PR)
DAVIS, THOMAS O., JR. (H-5)
BRADLEY, ORVIL D. (H-5)
TRUJILLO, ANDRES G. (H-5)
DOUGLAS, DARREL D. (H-5)

30-27
RESPIRATOR STUDIES FOR THE NATIONAL
INSTITUTE FOR OCCUPATIONAL SAFETY
AND HEALTH, JANUARY 1-DECEMBER 31,
1977.

LASL,
1978. 42P. HEW PUBLICATION NO.
(NIOSH) 78-161 (LA-7317-PR)
LOWRY, PHILIP L. (H-5)
RICHARDS, CHARLES P. (H-5)
GEOFFRION, LOUIS A. (H-5)
YASUDA, STANLEY K. (H-5)
WHEAT, LLOYD D. (H-5)
BUSTOS, JOSE M. (H-5)
DOUGLAS, DARREL D. (H-5) PROJECT MANAGER

30-28
RESPIRATOR STUDIES FOR THE NUCLEAR
REGULATORY COMMISSION, OCTOBER 1, 1976-
SEPTEMBER 30, 1977. PROTECTION FACTORS
FOR SUPPLIED - AIR RESPIRATORS.

LASL,
1978. 32P. (LA-7098-PR)
HACK, ALAN L. (H-5)
BRADLEY, ORVIL D. (H-5)
TRUJILLO, ANDRES G. (H-5)

30-29
SENSITIVE, YET SIMPLE, PLUTONIUM WOUND
MONITOR.

HEALTH PHYS.,
V.35, P.577-8. 1978.
VASILIK, DENNIS G. (H-1)
MARTIN, ROBERT W. (H-1)
UMBARGER, C. JOHN (H-1)

30-30
STUDIES ON PERSONS EXPOSED TO
PLUTONIUM.

TIC,
1978. 17P. MN (LA-UR-78-208)
VOELZ, GEORGE L. (H-DO)
STEBBINGS, JAMES H., JR. (H-DO)
HEMPELMANN, LOUIS H. (H-DO)
HAXTON, LAURA K. (H-DO)
YORK, DONALD A. (H-DO)

30-31
TANDEM HEPA FILTER TESTS.
AM. IND. HYG. ASSOC. J.,
V.39, P.144-50. 1978.
SCHUSTER, BURTON G. (H-5)
OSETEK, DANIEL J. (H-5)

31. HEATING AND COOLING--RESIDENTIAL AND COMMERCIAL APPLICATIONS

31-1
BUILDING ENVIRONMENTAL SYSTEMS
EVALUATION FOR THE NATIONAL SECURITY
AND RESOURCES STUDY CENTER.
LASL,
1978. 149P. THESIS, SEVER
INST. OF TECH., WASHINGTON UNIV., ST.
LOUIS, MO., 1978. (LA-7141-T)
TERRY, MICHAEL T. (ENG-9)

31-2
COMPONENT - BASED SIMULATOR FOR
SOLAR SYSTEMS.
TIC
1978. 5P. MN (LA-UR-78-1494)
ROSCHKE, MARK A. (WX-4)
HUNN, BRUCE D. (WX-4)
DIAMOND, STEPHEN C. (WX-4)

31-3
DATA ACQUISITION AND MONITORING
SYSTEM FOR LOS ALAMOS NATIONAL
SECURITY AND RESOURCES STUDY
CENTER.
TIC
1978. 6P. MN (LA-UR-78-677)
TRUMP, MICHAEL A. (E-4)

31-4
DATA ACQUISITION AND PROCESSING
WITH A HP 9825 DESK TOP
CALCULATOR CONTROLLED
INSTRUMENTATION SYSTEM IN THE
LOS ALAMOS SOLAR MOBILE /
MODULAR HOME.
TIC
1978. 9P. MN (LA-UR-78-773)
HEDSTROM, JAMES C. (Q-11)

31-5
ECONOMICS OF THE ATTACHED SOLAR
GREENHOUSE FOR HOME HEATING.
TIC
1978. 12P. MN (LA-UR-78-22)
ALSO PUBLISHED IN:
TECHNOLOGY FOR ENERGY
CONSERVATION. 1978. NATIONAL
CONF., ALBUQUERQUE, NM. PROC.,
P.240-4. INFORMATION TRANSFER, 1978.
(333.9/T255E 1978)
KOLSTAD, CHARLES D. (Q-12)

31-6
ENERGY SAVINGS FOR A SOLAR
HEATED AND COOLED BUILDING
THROUGH ADAPTIVE OPTIMAL
CONTROL.
TIC
1978. 23P. MN (LA-UR-77-1048)
FARRIS, DONALD R. (E-4)
MELSA, JAMES L.

31-7
ERDA FACILITIES SOLAR DESIGN
HANDBOOK.
TIC
1977. 181P. MN (LA-UR-77-186)
HUNN, BRUCE D. (WX-4)

31-8
HYBRID PASSIVE/ACTIVE SOLAR HOUSE.
FIRST YEAR PERFORMANCE OF THE HUNN
RESIDENCE.
TIC
1978. 6P. MN (LA-UR-78-965)
HUNN, BRUCE D. (WX-4)

31-9
IMPACTS OF THE NATIONAL ENERGY
PROGRAM ON SOLAR ECONOMICS.
TIC
1978. 70P. MN (LA-UR-78-131)
BEN-DAVID, SHAUL
NOLL, SCOTT
ROACH, JAMES F. (Q-12)
SCHULZE, WILLIAM

31-10
INITIAL OPERATION AND PERFORMANCE
OF A RANKINE CHILLER AND AN
ABSORPTION CHILLER IN THE
NATIONAL SECURITY AND RESOURCES
STUDY CENTER.
TIC
1978. 6P. MN (LA-UR-78-930)
HEDSTROM, JAMES C. (Q-11)
MURRAY, HUGH S. (E-4)
BALCOMB, J. DOUGLAS (Q-DO)

31-11
ON-LINE PERFORMANCE CALCULATIONS
FOR THE LOS ALAMOS NATIONAL
SECURITY AND RESOURCES STUDY
CENTER.
TIC
1978. 8P. MN (LA-UR-78-754)
MURRAY, HUGH S. (E-4)
HEDSTROM, JAMES C. (Q-11)

31-12
PASOLE. A GENERAL SIMULATION
PROGRAM FOR PASSIVE SOLAR
ENERGY.
LASL,
1978. 50P. (LA-7433-MS)
MC FARLAND, ROBERT D. (Q- 1)

31-13
PASSIVE TESTING AT LOS ALAMOS.

TIC,
1978. 6P. MN (LA-UR-78-1158)
BALCOMB, J. DOUGLAS (Q-DO)
MC FARLAND, ROBERT D. (Q-11)
MOORE, STANLEY W. (Q-11)

31-14
SIMPLE EMPIRICAL METHOD FOR
ESTIMATING THE PERFORMANCE OF A
PASSIVE SOLAR HEATED BUILDING OF THE
THERMAL STORAGE WALL TYPE.

TIC,
1978. 8P. MN (LA-UR-78-1159)
BALCOMB, J. DOUGLAS (Q-DO)
MC FARLAND, ROBERT D. (Q-11)

31-15
SOLAR COLLECTOR RELATED RESEARCH AND
DEVELOPMENT IN THE UNITED STATES
FOR HEATING AND COOLING OF BUILDINGS.

TIC,
1978. 39P. MN (LA-UR-78-1263)
COLLIER, ROBERT K. (Q-11)

31-16
SOLAR ENERGY RESEARCH AT LASL
JULY 1, 1976-SEPTEMBER 30, 1977.

LASL,
1978. 109P. (LA-7115-PR)
BANKSTON, CHARLES A., JR. (Q-11) COMP.
NEEPER, DONALD A. (Q-11) COMP.

31-17
STATE OF THE ART IN PASSIVE
SOLAR HEATING AND COOLING.

TIC,
1978. 9P. MN (LA-UR-78-774)
BALCOMB, J. DOUGLAS (Q-DO)

31-18
VERIFICATION METHODOLOGY FOR THE
DOE-1 BUILDING ENERGY ANALYSIS
COMPUTER PROGRAM.

TIC,
1978. 5P. MN (LA-UR-78-1493)
DIAMOND, STEPHEN C. (WX-4)
HUNN, BRUCE D. (WX-4)
MC DONALD, THOMAS E. (E-4)

32. INERTIAL CONFINEMENT FUSION

32-1
ABSORPTION OF INFRARED RADIATION
BY A LARGE POLYATOMIC MOLECULE.
CARBON DIOXIDE LASER IRRADIATION OF
DISULFUR DECAFLUORIDE.

J. CHEM. PHYS.
V.69, P.1858-54. 1978.
LYMAN, JOHN L. (AP-3)
LEARY, KEVIN M. (AP-3)

32-2
AMMONIA LASER OPTICALLY PUMPED WITH AN
HF LASER.

OPT. COMMUN.
V.24, P.27-30. 1978.
JONES, CLAUDE R. (AP-2)
BUCHWALD, MELVIN I. (AP-2)
GUNDERSEN, MARTIN
BUSHNELL, ANDREW H.

32-3
ANALYSIS OF LASER FUSION TARGETS
USING MONOCHROMATIC X-RAY
MICRORADIOGRAPHS.

LASL
1978. 25P. (LA-7534-MS)
WHITMAN, ROLLIN L. (M-8)
DAY, ROBERT H. (J-14)
KRUGER, RICHARD (M-8)
STUPIN, DAVID M. (L-7)

32-4
ANTARES OPTICAL DESIGN AND ANALYSIS.
INERTIAL CONFINEMENT FUSION.

1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.TUC9-1.
OSA, 1977. (537/142C)
REICHEL, WALTER H. (L-10)
MUNROE, JAMES L. (L-10)
JONES, KENNETH C. (L-10)
SAXMAN, A. C. (L-10)
SOLLID, JON E. (L-10)

32-5
ANTARES PROTOTYPE POWER AMPLIFIER -
FINAL REPORT.

LASL
1978. 109P. (LA-7186)
LELAND, WALLACE T. (L-10)
YORK, G. (L-10)
GANLEY, JAMES T. (L-10)
SWANSON, DAVID A. (L-10)
LODA, G.
YAVORNIK, EDWARD J. (L-10)
RIEPE, KENNETH B. (L-10)
LINDSTRAND, RICHARD (L-10)
COMLY, JACK C. (T-6)

32-6
APPLICATION OF CHEMICAL VAPOR DEPOSITION
TO THE FABRICATION OF LASER FUSION
TARGETS.

INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.THE7-1.
OSA, 1977. (537/142C)
MC CREARY, WILLIAM J. (CMB-6)
CATLETT, DUANE S. (CMB-6)

32-7
APPLICATIONS OF INERTIAL
CONFINEMENT FUSION.

INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.WA4-1.
OSA, 1977. (537/142C)
BOOTH, LAWRENCE A. (L-5)

32-8
ASSESSMENT OF DYNAMICAL PARASITICS
IN THE EBS.

LASL
1978. 19P. (LA-7166-MS)
ELLIOTT, C. JAMES (L-6)

32-9
BASICS OF MAGNETIC FUSION.

LASL
MINI-REVIEW. 1978. 4P.
(LASL-78-3)
FREIWALD, DAVID A. (DIR-O)

32-10
BATCH PROCESSING TECHNIQUES FOR
MICROBALLOON FUSION TARGETS.

INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.TUE14-1.
OSA, 1977. (537/142C)
BONGIANNI, W. L.
BUTLER, SUSANNAH (L-7)
MILLER, JOHN R. (L-7)

32-11
BROADBAND GAS ISOLATOR FOR HIGH -
POWER CARBON DIOXIDE LASERS.

OPT. LETT.
V.2, P.39-41. 1978.
CZUCHLEWSKI, STEPHEN J. (L-9)
NOWAK, ANDREW V. (L-9)
FOLEY, EDWARD (L-9)
FIGUEIRA, JOSEPH F. (L-9)

32-12
CALORIMETER FOR LASER BEAMS
AND PLASMA DIAGNOSTICS.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.WD6-1.
OSA, 1977. (537/142C)
WILLIAMS, ARTHUR H. (L-4)

32-13
CARBON DIOXIDE LASER
SYSTEMS STUDIES.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.WC13-1.
OSA, 1977. (537/142C)
STARK, EUGENE E. (L-5)
JANSEN, HANSJORG (L-10)

32-14
CARBON DIOXIDE LASER FUSION TARGET
ALIGNMENT.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.TUC5-1.
OSA, 1977. (537/142C)
MANNING, JOHN P.
KLINGLER, QUENTIN G.
STUMP, CHARLES J., JR.
LIBERMAN, IRVING (L-1)

32-15
CARBON DIOXIDE-LASER FUSION.
TIC
1978. 12P. MN (LA-UR-78-1351)
STARK, EUGENE E. (L-5)

32-16
CHARACTERIZATION OF P-TYPE
GERMANIUM FOR 10 MICROMETER
REGION PASSIVE ISOLATION AND
PULSE SHAPING.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.TUC1-1.
OSA, 1977. (537/142C)
PHIPPS, CLAUDE R., JR. (L-9)
THOMAS, SCOTT J. (L-9)

32-17
COMPREHENSIVE STUDY OF EXCIMER
LASER SYSTEMS.
LASL,
1978. 99P. THESIS, UNIV. OF
NEW MEXICO, ALBUQUERQUE, 1978.
(LA-7329-T)
BUTCHER, ROBERT R. (AP-2)

32-18
CONTAINMENT VESSEL STRUCTURAL
DESIGN CONSIDERATIONS.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.WC12-1.
OSA, 1977. (537/142C)
BOHACHEVSKY, I. O. (L-5)
FRANK, THURMAN G. (L-5)

32-19
CONTROLLING SURFACE FINISHED IN VACUUM
DEPOSITED COATING FOR LASER FUSION
TARGETS.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.THE9-1.
OSA, 1977. (537/142C)
SPRINGER, ROBERT W. (CMB-6)

32-20
DAMAGE RESISTANCE OF AR-COATED
GERMANIUM SURFACES FOR NANOSECOND
CARBON DIOXIDE LASER PULSES.
TIC
1977. 19P. MN (LA-UR-77-2530)
NEWMAM, BRIAN E. (AP-2)
GILL, DENNIS H. (AP-2)

32-21
DAMAGE RESISTANCE OF COATED OPTICS
FOR PULSED CARBON DIOXIDE LASERS.
TIC
1978. 18P. MN (LA-UR-78-931)
NEWMAM, BRIAN E. (AP-2)

32-22
DERIVATION OF THE PHYSICAL
EQUATIONS SOLVED IN THE INERTIAL
CONFINEMENT STABILITY CODE DOC.
LASL,
1978. 20 P. (LA-7214-MS)
SCANNAPIECO, ANTHONY J. (L-6)
CRANFILL, CHARLES W. (L-6)

32-23
DESIGN ENGINEERING OF LARGE HIGH
PRESSURE GAS LASER AMPLIFIERS.
TIC
1978. 17P. MN (LA-UR-78-876)
ALSO PUBLISHED IN:
ADVANCES IN LASER TECHNOLOGY
(EMPHASIZING GASEOUS LASERS). 1978
SEMINAR, WASHINGTON, D.C. PROC.,
P.39-45. D. FINKLEMAN, ED.
SPIE, 1978. (621.366/A244L)
LELAND, WALLACE T. (L-10)

32-24
DESIGN OF THE ENERGY STORAGE SYSTEM FOR
THE HIGH ENERGY GAS LASER
FACILITY AT LASL.

ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.2,
P.1053-5. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
ALSO PUBLISHED IN:

TTC,
1977. 12P. MN (LA-UR-77-2419)
RIEPE, KENNETH B. (L-10)
KIRCHER, MARY (L-10)

32-25
DESIGN OF THE POWER AMPLIFIER
FOR THE HEGLF AT LASL.

ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PRCC., V.1,
P.489-93. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
JÄNSEN, HANSJORG (L-10)
ZEIGNER, VERNON L. (L-10)

32-26
DEVELOPMENT OF BROADBAND GAS
ISOLATOR MIXES FOR HIGH POWER
CARBON DIOXIDE LASERS.

INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.TUC2-1.
OSA, 1977. (537/142C)
NOWAK, ANDREW V. (L-9)
CZUCHLEWSKI, STEPHEN J. (L-9)
FOLEY, EDWARD (L-9)
FIGUEIRA, JOSEPH F. (L-9)

32-27
DEVELOPMENT OF CRYOGENIC
TARGETS FOR LASER FUSION.

TTC,
1977. 13P. MN (LA-UR-77-1523)
ALSO PUBLISHED IN:
ADV. CRYOC. ENG.,
V.23, P.676-81. 1978.
GRILLY, EDWARD R. (Q-10)

32-28
DEVICE FOR MICROPARTICLE ARRAY
PREPARATION.

REV. SCI. INSTRUM.,
V.49, P.1488-9. 1978.
CAMPBELL, MARILYN J. (L-7)

32-29
DIELECTRIC TARGET FABRICATION FOR
ELECTRON BEAM FUSION.

INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.TUE4-1.
OSA, 1977. (534/142C)
NEWFIELD, STEPHEN E. (CMB-6)

32-30
DIFFRACTION MEASUREMENTS FOR LASL'S
ANTARES LASER SYSTEM.

LASL,
1978. 32P. (LA-7443-MS)
SOLLID, JON E. (L-10)

32-31
DISCHARGE PUMPED EXCIMER LASERS.
LASER AND ELECTROOPTICAL SYSTEMS.

1978. OSA/IEEE CONFERENCE,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, NO.WBB1,
P.38-40. OSA, 1978,
(621.36/L343E 1978)
FAHLEN, T. S.

32-32
DISTRIBUTED MICROCOMPUTER CONTROL
SYSTEM FOR A HIGH - ENERGY GAS -
LASER FACILITY.

MICRO 77 COMPUTER CONF. RECORD,
APRIL, 1977, P.99-104.
STRAIT, BOBBY G. (L-10)
THUOT, MICHAEL E. (E-4)
HONG, JUNG PYO (L-10)

32-33
DOUBLE - SHELL TARGET DESIGNS FOR
THE LOST ALAMOS SCIENTIFIC
LABORATORY EIGHT -BEAM LASER SYSTEM.

LASL,
1978. 13P. (LA-7167-MS)
KINDEL, JOSEPH M. (L-6)
STROSCIO, MICHAEL A. (L-6)

32-34
EFFECT OF CARBON DIOXIDE LASER
PULSE MODE QUALITY ON MULTIPLE
PHOTON ABSORPTION IN SULFUR
HEXAFLUORIDE.

OPT. COMMUN.,
V.25, P.391-4. 1978.
LYMAN, JOHN L. (AP-3)
FELDMAN, BARRY J. (L-9)
FISHER, ROBERT A. (L-9)

32-35
EFFICIENT GAS ISOLATOR FOR CARBON
DIOXIDE 10 MICROMETER P BRANCH
LASER OPERATION.

ELECTRO-OPTICS/LASER 77
CONFERENCE AND EXPOSITION.
1977. ANAHEIM, CA. PROC.,
P.303-11. INDUSTRIAL AND
SCIENTIFIC CONFERENCE MANAGEMENT,
1977. (535/E380L 1977)
CZUCHLEWSKI, STEPHEN J. (L-9)
NOWAK, ANDREW V. (L-9)
FOLEY, EDWARD (L-9)

32-36
ELECTRON BEAM INITIATED FUSION - TARGET
FABRICATION.

INERTIAL CONFINEMENT FUSION.

1978. TOPICAL MEETING,

SAN DIEGO, CA. DIGEST OF

TECHNICAL PAPERS, P.TUE3-1.

OSA, 1977. (537/142C)

SIMONSIC, GARY A. (CMB-6)

MIX, L. PAUL, JR.

CATLETT, DUANE S. (CMB-6)

32-37
ENERGY EXTRACTION AND PULSE
SHAPING IN ANTARES.

INERTIAL CONFINEMENT FUSION.

1978. TOPICAL MEETING,

SAN DIEGO, CA. DIGEST OF

TECHNICAL PAPERS, P.TUC10-1.

OSA, 1977. (537/142C)

WOLFE, PETER N. (L-10)

FELDMAN, BARRY J. (L-9)

HAFFER, JOHN F. (L-5)

KNAPP, CHARLES E. (L-10)

VOLKIN, HOWARD C. (L-5)

32-38
ENERGY-TRANSPORT EXPERIMENTS IN 10
MICROMETER LASER - PRODUCED
PLASMAS.

J. APP. PHYS.,

V.49, P.3851-4.

MITCHELL, KENNETH B. (L-1)

GODWIN, ROBERT P. (L-4)

32-39
ENVIRONMENTAL EFFECTS AND POTENTIAL
HAZARDS OF LASER FUSION ELECTRIC
GENERATING STATIONS.

INERTIAL CONFINEMENT FUSION.

1978. TOPICAL MEETING,

SAN DIEGO, CA. DIGEST OF

TECHNICAL PAPERS, P.WC8-1.

OSA, 1977. (537/142C)

DEVANEY, JOSEPH J. (L-5)

BOOTH, LAWRENCE A. (L-5)

PENDERGRASS, JOHN H. (L-5)

FRANK, THURMAN G. (L-5)

32-40
FABRICATION OF COMPLEX CRYOGENIC
TARGETS.

INERTIAL CONFINEMENT FUSION.

1978. TOPICAL MEETING,

SAN DIEGO, CA. DIGEST OF

TECHNICAL PAPERS, P.THE2-1.

OSA, 1977. (537/142C)

CRANFILL, BETTY S. (L-7)

FARNUM, EUGENE H. (L-7)

LOWE, ARTHUR T. (L-7)

MILLER, JOHN R. (L-7)

32-41
FARADAY EFFECT IN MERCURY(1-X)
CADMIUM(X)TELLURIDE AT CARBON
DIOXIDE LASER WAVELENGTHS.

J. APPL. PHYS.,

V.49, P.2265-7, 1978.

AHRENKIEL, RICHARD K. (L-9)

WEISS, PAUL B. (L-9)

WATKINS, DAVID W. (TD-2)

GULATI, S. K.

GRANNEMANN, W. W.

32-42
FIBER OPTICS AND MICROPROCESSORS - A
CONTROL - SYSTEM SOLUTION FOR THE
LASER - FUSION ENVIRONMENT.

TIC

1978. 17P. MN (LA-UR-78-329)

THUOT, MICHAEL E. (E-4)

32-43
FIBER OPTICS AND MICROPROCESSORS.
A CONTROL - SYSTEM SOLUTION FOR THE
LASER - FUSION ENVIRONMENT.

TIC

1978. 16P. MN (LA-UR-78-1152)

THUOT, MICHAEL E. (E-4)

32-44
GENERAL ICF REACTOR DESIGN
CONSIDERATIONS.

INERTIAL CONFINEMENT FUSION.

1978. TOPICAL MEETING,

SAN DIEGO, CA. DIGEST OF

TECHNICAL PAPERS, P.WC2-1.

OSA, 1977. (537/142C)

BOHACHEVSKY, I. C. (L-5)

BOOTH, LAWRENCE A. (L-5)

FRANK, THURMAN G. (L-5)

HAFFER, JOHN F. (L-5)

PENDERGRASS, JOHN H. (L-5)

32-45
HIGH - EFFICIENCY PULSED
10.6 MICROMETER PHASE - CONJUGATE
REFLECTION VIA DEGENERATE
FOUR - WAVE MIXING.

CPT. LETT.

V.3, P.82-4. 1978.

BERGMANN, ERNEST E. (L-9)

RIGIO, IRVING J. (L-1)

FELDMAN, BARRY J. (L-9)

FISHER, ROBERT A. (L-9)

32-46
HIGH - ENERGY, TWELVE - CHANNEL LASER
FACILITY (DELFIN) FOR SPHERICAL
IRRADIATION OF THERMONUCLEAR TARGETS.
BY N.G. BASOV, ET AL. USSR ACADEMY
OF SCIENCES, P.N.LEBEDEV PHYSICS
INSTITUTE. PREPRINT NO.74.

LASL,

1978. 26P. (LA-7114-TR)

BOHACHEVSKY, I. C. (L-5) TRANSLAT

32-47
HIGH - RESOLUTION SPECTROSCOPY USING
TUNABLE DIODE LASERS - TECHNIQUES AND
APPLICATIONS.

TIC,
1977. 9P. MN (LA-UR-77-2222)
ALSO PUBLISHED IN:
ELECTRO-OPTICS/LASER 77
CONFERENCE AND EXPOSITION.
1977. ANAHEIM, CA. PROC.,
P.589-96. INDUSTRIAL AND
SCIENTIFIC CONFERENCE MANAGEMENT,
1977. (535/E380L 1977)
MC DOWELL, ROBIN S. (AP-4)

32-48
HYBRID METHOD FOR THE NUMERICAL
SOLUTION OF THE ELECTRON TRANSPORT
EQUATION - THE REDUCED SOURCE
METHOD.

LASL,
1978. 10P. (LA-7410-MS)
FRALEY, GARY S. (L-6)
LEE, KENNETH
STROSCIO, MICHAEL A. (L-6)

32-49
INJECTION OF LASER FUSION PELLETS.
PART 1. ACCURACY REQUIRED,
ACCELERATION, AND RESIDUAL GAS
DEFLECTIONS.

LASL,
1978. 12P. (LA-7477-MS)
DEVANEY, JOSEPH J. (L-5)

32-50
INTENSE HIGH - PRESSURE SEQUENCE - BAND
CARBON DIOXIDE LASER.

OPT. LETT.,
V.2, P.16-8. 1978.
FELDMAN, BARRY J. (L-9)
FISHER, ROBERT A. (L-9)
POLLOCK, CLIFFORD R. (L-9)
SIMONS, SCOTT W. (L-9)
TERCOVICH, RENATO G. (L-9)

32-51
INTENSITY DEPENDENCE OF INVERSE
BREMSSTRAHLUNG ABSORPTION IN AN
INHOMOGENEOUS STANDING WAVE.

PHYS. FLUIDS,
V.21, P.793-7. 1978.
FAEHL, R. J. (T-15)
RODERICK, NORMAN F.

32-52
INTERFEROMETRIC MEASUREMENT OF CRYOGENIC
LASER FUSION TARGET UNIFORMITY.

APPL. OPT.,
V.17, P.852-3. 1978.
MILLER, JOHN R. (L-7)
SOLLID, JON E. (L-10)

32-53
IONEOS. A FAST, ANALYTIC, ION
EQUATION-OF-STATE ROUTINE.

LASL,
1978. 10P. (LA-7313-MS)
CRANFILL, CHARLES W. (L-6)
MORE, RICHARD

32-54
LARGE - APERTURE DISCHARGES IN E-BEAM
SUSTAINED CARBON DIOXIDE AMPLIFIERS.

ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.1,
P.506-8. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
ALSO PUBLISHED IN:

TIC,
1977. 11P. MN (LA-UR-77-2451)
LELAND, WALLACE T. (L-10)
GANLEY, JAMES T. (L-10)
KIRCHER, MARY (L-10)
YORK, G. (L-10)

32-55
LASER - FUSION PROGRAM AT LOS
ALAMOS.

TIC,
1977. 54P. MN (LA-UR-77-174)
PERKINS, ROGER B. (L-DO)

32-56
LASER FUSION PROGRAM AT LASL -
JANUARY 1 - JUNE 30, 1977.

LASL,
1978. 155P. (LA-6982-PR)
SKOBERNE, FREDERICK (L-DO) COMP
STARK, EUGENE E. (L-5) COMP.

32-57
LASER FUSION TARGET POSITIONING.

INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P. THE10-1.
OSA, 1977. (537/142C)
MILLER, JOHN R. (L-7)
DAY, ROBERT D. (L-1)
FARNUM, EUGENE H. (L-7)
HANSEN, WILFRED G. (L-1)
TUCKER, HOWARD E. (L-1)
TEASDALE, W. A. (WX-4)

32-58
LASER INDUCED FUSION.

FUSION. 1977 (MAY).
IEEE MINICOURSE. 2ND, TROY, NY.
PROC. G.H. MILEY, ED.
P.10-1--10-20. U. OF IL, 1977.
(621.484/F993 1977)
GITOMER, STEVEN J. (T-6)

- 32-59
LASERS AND POWER SYSTEMS FOR
INERTIAL CONFINEMENT FUSION
REACTORS.
TIC,
1978. 24P. MN (LA-UR-78-1350)
STARK, EUGENE E. (L-5)
- 32-60
LASL EIGHT BEAM LASER TARGET
INSERTION SYSTEM.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS. P.TUC6-1.
OSA, 1977. (537/142C)
DAY, ROBERT D. (E-4)
CUMMINGS, CHARLES E. (WX-4)
- 32-61
LASL 100-KJ CARBON DIOXIDE LASER
FOR ICF RESEARCH. ANTARES.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS. P.TUC7-1.
OSA, 1977. (537/142C)
STRATTON, THOMAS F. (L-10)
DURHAM, FRANKLIN P. (L-DO)
JANSEN, HANSJORG (L-10)
LELAND, WALLACE T. (L-10)
REICHELT, WALTER H. (L-10)
ZEIGNER, VERNON L. (L-10)
- 32-62
MASS EJECTION FROM SHOCKED SURFACES
OF LEAD.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS. P.TUD15-1.
OSA, 1977. (537/142C)
MAH, RICHARD (CMB-6)
- 32-63
MEASUREMENT OF ALIGNMENT ACCURACY FOR
LASER FUSION EXPERIMENTS.
APPL. OPT.
V.17, P.1160. 1978.
BENJAMIN, ROBERT F. (L-4)
WHITE, LARRY (L-4)
- 32-64
MICRORADIOGRAPHY OF LASER FUSION
TARGETS WITH MONOCHROMATIC X RAYS.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS. P.TUE12-1.
OSA, 1977. (537/142C)
STUPIN, DAVID M. (L-7)
DAY, ROBERT H. (J-14)
WHITMAN, ROLLIN L. (M-8)
KRUGER, RICHARD (M-8)
- 32-65
MINIMUM RELEASE, HIGH PRESSURE
DT FILL SYSTEM FOR LASER FUSION
TARGETS.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS. P.TUE5-1.
OSA, 1977. (537/142C)
FARNUM, EUGENE H. (L-7)
MALTRUD, HERMAN R. (L-7)
- 32-66
MIRROR POSITION DISPLAY EQUIPMENT
FOR THE TARGET CHAMBER MIRROR MOUNTS OF
THE 8-BEAM LASER FUSION RESEARCH
FACILITY.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.81-2. LASL. 1978. (LA-7417-C)
WELLS, FRANK D. (E-5)
REMINGTON, DAVID (E-4)
- 32-67
MODERN ULTRAFAST STREAK CAMERA
DEVELOPMENT AND APPLICATION REVIEW.
TIC,
1977. 7P. MN (LA-UR-77-2474)
ALSO PUBLISHED IN:
ELECTRO-OPTICS/LASER 77
CONFERENCE AND EXPOSITION.
1977. ANAHEIM, CA. PROC.,
P.336-9. INDUSTRIAL AND
SCIENTIFIC CONFERENCE MANAGEMENT,
1977. (535/E380L 1977)
LIEBER, ALBERT (J-14)
- 32-68
NANOSECOND PULSE AMPLIFICATION
IN CARBON DIOXIDE AT EFFICIENCIES
EXCEEDING 20 PERCENT.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS. P.WC14-1.
OSA, 1977. (537/142C)
STARK, EUGENE E. (L-5)
LELAND, WALLACE T. (L-10)
VOLKIN, HOWARD C. (L-5)
- 32-69
NEW METHOD FOR PRODUCING
CRYOGENIC LASER FUSION TARGETS.
ADVANCES IN CRYOGENIC
ENGINEERING, V.23. P.669-75.
K.D. TIMMERHAUS, ED. PLENUM,
1978.
MILLER, JOHN R. (L-7)

32-70
NEW SATURABLE ABSORBER FOR THE
CARBON DIOXIDE LASER USING
DOPED KCL.

APPL. PHYS. LETT.

V.33, P.705-7. 1978.

AHRENKIEL, RICHARD K. (L-9)

FIGUEIRA, JOSEPH F. (L-9)

PHIPPS, CLAUDE R., JR. (L-9)

DUNLAVY, DONALD J. (E-10)

THOMAS, SCOTT J. (L-9)

SIEVERS, A. J.

32-71
NUMERICAL COMPUTATION OF THE DENSITY
PROFILE PRODUCED BY 10.6 MICROMETER
IRRADIATION OF A SILICON DIOXIDE
MICROBALLOON.

NUCL. FUSION,

V.18, P.1425-30. 1978.

STROSCIO, MICHAEL A. (L-6)

HENDERSON, DALE B. (L-6)

PETSCHEK, ALBERT G.

32-72
OPTICAL ANALYSIS AND PREDICTIONS FOR
THE LASL EIGHT BEAM LASER FUSION
SYSTEM.

INERTIAL CONFINEMENT FUSION.

1978. TOPICAL MEETING,

SAN DIEGO, CA. DIGEST OF

TECHNICAL PAPERS, P.TUC4-1.

OSA, 1977. (537/142C)

VISWANATHAN, V. K. (L-1)

32-73
OPTICALLY PUMPED MIDDLE INFRARED
LASERS.

LASER AND ELECTROOPTICAL SYSTEMS.

1978. OSA/IEEE CONFERENCE,

SAN DIEGO, CA. DIGEST OF

TECHNICAL PAPERS, NO.THJJ2,

P.102-4. OSA, 1978.

(621.36/L343E 1978)

BUSHNELL, ANDREW H.

JONES, CLAUDE R. (AP-2)

GUNDERSEN, MARTIN

BUCHWALD, MELVIN I. (AP-2)

32-74
OVERVIEW OF LASER FUSION.

LASL

MINI-REVIEW. 1978. 4P. (LASL-77-24)

STARK, EUGENE E. (L-5)

32-75
PLASMA POLYMERIZED FILMS AS
LASER FUSION TARGETS.

INERTIAL CONFINEMENT FUSION.

1978. TOPICAL MEETING,

SAN DIEGO, CA. DIGEST OF

TECHNICAL PAPERS, P.THE5-1.

OSA, 1977. (537/142C)

LOWE, ARTHUR T. (L-7)

FRIES, RALPH JAY (L-7)

32-76
PLASMA POLYMERIZED P-XYLENE AS A
LASER FUSION TARGET.

SURF. SCI.

V.76, P.242-56. 1978.

LOWE, ARTHUR T. (L-7)

FRIES, RALPH JAY (L-7)

32-77
PLATING LASER - FUSION TARGETS.
INERTIAL CONFINEMENT FUSION.

1978. TOPICAL MEETING,

SAN DIEGO, CA. DIGEST OF

TECHNICAL PAPERS, P.THE8-1.

OSA, 1977. (537/142C)

MAYER, ANTON (CMB-6)

CATLETT, DUANE S. (CMB-6)

32-78
PREPARATION OF ULTRATHIN
POLYETHYLENE FOILS BY FILM
CASTING.

REV. SCI. INSTRUM.

V.49, P.264-5. 1978.

CRANFILL, BETTY S. (L-7)

32-79
PROPERTIES OF COBALT CHROMIUM
SULFIDE APPLICABLE TO FARADAY
ROTATORS FOR CARBON DIOXIDE
LASER SYSTEMS.
IEEE TRANS. MAGN.,
V.MAG-14, P.454-6. 1978.
AHRENKIEL, RICHARD K. (L-9)

32-80
PROPOSAL FOR STUDY OF VACUUM ADIABAT
COMPRESSION OF A RELATIVISTIC ELECTR
BEAM GENERATED BY A FOILLESS DIODE.

LASL,

1978. 15P. (LA-7169-P)

THODE, LESTER E. (T-15)

32-81
PROTOTYPE ANTARES POWER AMPLIFIER
MODULE.

INERTIAL CONFINEMENT FUSION.

1978. TOPICAL MEETING,

SAN DIEGO, CA. DIGEST OF

TECHNICAL PAPERS, P.TUC8-1.

OSA, 1977. (537/142C)

GANLEY, JAMES T. (L-10)

LELAND, WALLACE T. (L-10)

SWANSON, DAVID A. (L-10)

YORK, G. (L-10)

32-82
RECENT X-RAY ANALYSIS OF LASER - FUSI
PLASMA.

HIGH-TEMPERATURE PLASMA DIAGNOSTIC

1978. 2ND TOPICAL CONF. SANTA FE,

NM. ABSTRACTS, P.32. (LA-7160-C)

LEE, PING (L-4)

32-83
 REQUIREMENTS FOR COMMERCIALIZATION
 OF INERTIAL CONFINEMENT FUSION.
 INERTIAL CONFINEMENT FUSION.
 1978. TOPICAL MEETING,
 SAN DIEGO, CA. DIGEST OF
 TECHNICAL PAPERS, P.WC1-1.
 OSA, 1977. (537/142C)
 BOOTH, LAWRENCE A. (L-5)
 BOHACHEVSKY, I. O. (L-5)

32-84
 SECONDARY LASER CAVITY FOR
 WEAK ABSORPTIONS.
 APPL. OPT.
 V.17, P.2659-60. 1978.
 KYLE, THOMAS GAIL (H-5)
 SCHUSTER, BURTON G. (H-5)

32-85
 SEQUENCE - BAND LASING IN A HIGH -
 PRESSURE CARBON DIOXIDE DISCHARGE.
 LASER AND ELECTROOPTICAL SYSTEMS.
 1978. OSA/IEEE CONFERENCE,
 SAN DIEGO, CA. DIGEST OF
 TECHNICAL PAPERS, NO.WEE1,
 P.48-9. OSA, 1978.
 (621.36/L343E 1978)
 FELDMAN, BARRY J. (L-9)
 FISHER, ROBERT A. (L-9)
 POLLOCK, CLIFFORD R.
 SIMONS, SCOTT W.
 TERCOVICH, RENATO G. (L-9)

32-86
 SIMPLE MODEL FOR EXPLODING PUSHER
 TARGETS.
 LASL,
 1978. 16P. (LA-7218-MS)
 GIOVANIELLI, DAMON V. (L-4)
 CRANFILL, CHARLES W. (L-6)

32-87
 SPACE - CHARGE EFFECTS ON PARTICLE
 DIAGNOSTICS OF LASER - PRODUCED
 PLASMAS.
 APPL. PHYS. LETT.
 V.32, P.616-8. 1978.
 GITOMER, STEVEN J. (L-6)
 BRYSK, HENRY (L-6)

32-88
 SPACE CHARGE EFFECTS IN LASER
 PLASMA PARTICLE DIAGNOSTICS.
 HIGH-TEMPERATURE PLASMA DIAGNOSTICS.
 1978. 2ND TOPICAL CONF., SANTA FE,
 NM. ABSTRACTS, P.40. (LA-7160-C)
 GITOMER, STEVEN J. (L-6)
 BRYSK, HENRY (L-6)

32-89
 STABILIZATION OF HIGH - GAIN
 MULTIPASS POWER AMPLIFIERS USING
 SATURABLE ABSORBERS. EXPERIENCE ON
 THE LASL EIGHT - BEAM SYSTEM.
 APPL. PHYS. LETT.
 V.32, P.324-6. 1978.
 MONTGOMERY, MICHAEL D. (L-1)
 CARLSON, RANDOLPH L. (L-1)
 CASPERSON, D. E. (L-1)
 CZUCHLEWSKI, STEPHEN J. (L-9)
 FIGUEIRA, JOSEPH F. (L-9)
 HAGLUND, R. F., JR. (L-1)
 LADISH, JOSEPH S. (L-1)
 NOWAK, ANDREW V. (L-9)
 SINGER, SIDNEY (L-1)

32-90
 STABILIZATION OF HIGH GAIN
 MULTIPASS POWER AMPLIFIERS
 USING SATURABLE ABSORBERS.
 EXPERIENCE ON THE LASL EIGHT
 BEAM SYSTEM.
 INERTIAL CONFINEMENT FUSION.
 1978. TOPICAL MEETING,
 SAN DIEGO, CA. DIGEST OF
 TECHNICAL PAPERS, P.TUC3-1.
 OSA, 1977. (537/142C)
 MONTGOMERY, MICHAEL D. (L-1)
 CARLSON, RANDOLPH L. (L-1)
 CASPERSON, D. E. (L-1)
 CZUCHLEWSKI, STEPHEN J. (L-9)
 FIGUEIRA, JOSEPH F. (L-9)
 HAGLUND, R. F., JR. (L-1)
 JOLLY, EDWARD L. (L-1)
 LADISH, JOSEPH S. (L-1)
 NOWAK, ANDREW V. (L-9)
 SUTTON, JOHN G. (L-1)
 THOMASON, MICHAEL D. (L-1)
 ZIMMERMANN, EUGENE L. (L-1)

32-91
 STRENGTH OPTIMIZATION OF COATINGS USING
 MATERIAL LAMINATE TECHNIQUES.
 INERTIAL CONFINEMENT FUSION.
 1978. TOPICAL MEETING,
 SAN DIEGO, CA. DIGEST OF
 TECHNICAL PAPERS, P.THE6-1.
 OSA, 1977. (537/142C)
 SPRINGER, ROBERT W. (CMB-6)

32-92
 SYNTHETIC FUEL PRODUCTION
 FROM ICF SOURCES.
 INERTIAL CONFINEMENT FUSION.
 1978. TOPICAL MEETING,
 SAN DIEGO, CA. DIGEST OF
 TECHNICAL PAPERS, P.WC6-1.
 OSA, 1977. (537/142C)
 BOOTH, LAWRENCE A. (L-5)
 PENDERGRASS, JOHN H. (L-5)

32-93
THRESHOLD OF DETECTION FOR VARIOUS
MATERIALS AT 10.6 MICROMETERS.
APPL. OPT., V. 17, P. 2670-1. 1978.
SOLLID, JON E. (L-10)
THOMAS, SCOTT J. (L-9)
FOLEY, EDWARD (L-9)
PHIPPS, CLAUDE R., JR. (L-9)

32-94
TRITIUM PROCESSING SYSTEMS FOR
INERTIAL CONFINEMENT FUSION
FACILITIES.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.WC9-1.
OSA, 1977. (537/142C)
PENDERGRASS, JOHN H. (L-5)

32-95
TUNABLE LASERS FOR WASTE MANAGEMENT
PHOTOCHEMISTRY APPLICATIONS.
LASL, 1978. 56P. (LA-7113-MS)
FINCH, FRANCIS T. (AP-DOT) COMP.

32-96
TWO - DIMENSIONAL COMPUTER MODELING AND
ANALYSIS OF THIN - WALL MICROSPHERES.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.TUE13-1.
OSA, 1977. (537/142C)
WHITMAN, ROLLIN L. (M-8)
KRUGER, RICHARD (M-8)
DAY, ROBERT H. (J-14)
STUPIN, DAVID M. (L-7)

32-97
ULTRASOFT X-RAY CALIBRATION OF
X-RAY - DIODES FOR LASER FUSION
PLASMA DIAGNOSTICS.
HIGH-TEMPERATURE PLASMA DIAGNOSTICS.
1978. 2ND TOPICAL CONF., SANTA FE,
NM. ABSTRACTS, P.35. (LA-7160-C)
DAY, ROBERT H. (J-14)
LEE, PING (L-4)
ELSBERRY, THOMAS L. (J-14)

32-98
USE OF PYROELECTRIC VIDICONS
FOR MEASUREMENTS ON CARBON
DIOXIDE LASER SYSTEMS.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.TUC13-1.
OSA, 1977. (537/142C)
KOHLER, DAVID R. (L-4)
WEISS, PAUL B. (L-9)

32-99
VACUUM UV IMAGING OF A LASER
PRODUCED PLASMA.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.WD8-1.
OSA, 1977. (537/142C)
EHLER, A. WAYNE (L-4)
CARPENTER, JAMES P. (L-1)

32-100
VARIABLE PULSE WIDTH GENERATION
FOR CARBON DIOXIDE LASERS IN
THE 100-PS TO 1-NS RANGE.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.TUC11-1.
OSA, 1977. (537/142C)
MC LELLAN, EDWARD J. (L-9)
FIGUEIRA, JOSEPH F. (L-9)

32-101
WORKING WITH SAPPHIRE AND RUBY.
LASER FOCUS,
V. 14, NO. 8, P. 75-8. 1978.
LAZAZZERA, VITO J. (AP-2)

32-102
1/4 JOULE DISCHARGE PUMPED
KRYPTON FLUORIDE LASER.
REV. SCI. INSTRUM.,
V. 49, P. 772-4. 1978.
SZE, ROBERT C. (AP-2)
SCOTT, PETER B. (AP-2)

32-103
1800 TORR LARGE APERTURE DOUBLE
DISCHARGE CARBON DIOXIDE
LASER AMPLIFIER.
INERTIAL CONFINEMENT FUSION.
1978. TOPICAL MEETING,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, P.TUC12-1.
OSA, 1977. (537/142C)
BABCOCK, RICHARD V.
BROWN, J. C.
FELDMAN, BARRY J. (L-9)
FISHER, ROBERT A. (L-9)
SIMONS, SCOTT W.
TERCOVICH, RENATO G. (L-9)

33. INSTRUMENTS

33-1
AN ATMOSPHERIC OBSERVATORY.
LASL,
1978, 4P. (LASL-78-99)
SANDFORD, MAXWELL T. (J-9)
HORAK, HENRY G. (J-10)

33-2
AVALANCHE TRANSISTOR PULSER FOR FAST -
GATED OPERATION OF MICROCHANNEL PLATE
IMAGE - INTENSIFIERS.
TIC,
1977, 8P. MN (LA-UR-77-2402)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI.,
V. NS-25, P. 591-7, 1978;
LUNDY, ARVID S. (E-5)
PARKER, JOSEPH R. (E-5)
LUNSFORD, JAMES S. (E-3)
MARTIN, A. DON (E-2)

33-3
CODED APERTURE IMAGING. PREDICTED
PERFORMANCE OF UNIFORMLY REDUNDANT
ARRAYS.
APPL. OPTICS,
V. 17, P. 3562-70, 1978;
FENIMORE, EDWARD (P-4)

33-4
INDUSTRIAL WORKSHOP ON LASL
SEMICONDUCTOR RADIATION-DETECTOR
RESEARCH AND DEVELOPMENT.
LASL,
1978, 31P. (LA-7408-C)
ENDEBROCK, MARJORIE (E-10) COMP.

33-5
INFRARED DETECTORS FOR USE AT 10
MICROMETERS.
LASL,
1978, 7P. (LA-7276-MS)
EICHEN, ELLIOT
JARMIE, NELSON (P-7)

33-6
LASL LENS DESIGN PROCEDURE - SIMPLE,
FAST, PRECISE, VERSATILE.
LASL,
1978, 29P. (LA-7476)
BRIXNER, BERLYN (M-5)

33-7
LENS DESIGN MERIT FUNCTIONS.
RMS IMAGE SPOT SIZE AND RMS
OPTICAL PATH DIFFERENCE.
APPL. OPT.,
V. 17, P. 715-6, 1978;
BRIXNER, BERLYN (M-5)

33-8
NATIONAL LIVESTOCK ELECTRONIC
IDENTIFICATION SYSTEM.
LASL
MINI-REVIEW, 1978, 4P. (LASL-78-16)
HOLM, DALE M. (H-6)

33-9
NONDESTRUCTIVE INSULATOR TESTING
SYSTEM.
LASL,
1978, 11P. (LA-7558-MS)
HAGAN, ROLAND C. (M-1)
FULLBRIGHT, HENRY J., III (M-1)

33-10
NONSAP-C. A NONLINEAR STRESS
ANALYSIS PROGRAM FOR CONCRETE
CONTAINMENTS UNDER STATIC,
DYNAMIC, AND LONG - TERM LOADINGS.
LASL,
1978, 131P. (LA-7496-MS)
SMITH, PAUL D. (Q-13)
ANDERSON, CHARLES A. (Q-13)

33-11
PROCEEDINGS OF THE FUEL CELL IN
TRANSPORTATION APPLICATIONS
WORKSHOP, AUGUST 15-17, 1977,
LOS ALAMOS SCIENTIFIC LABORATORY,
LOS ALAMOS, NM 87545.
LASL,
1978, 138P. (LA-7270-C)
MC CORMICK, J. FYRON (E-4) ED.
BOBBETT, RONALD E. (E-4) ED.
SRINIVASAN, S. ED.
MC BREEN, JIM ED.

33-12
PROXIMITY-FOCUS. THE NEW
GENERATION STREAK TUBE.
TIC,
1978, 8P. MN (LA-UR-78-1436)
LIEBER, ALBERT (P-3)

33-13
QUARTZ CRYSTAL MICROBALANCES. A
REFINED TECHNIQUE FOR DETERMINING
CHANGES IN MASS LOADING FROM
FREQUENCY SHIFTS.
LASL,
1978, 13P. (LA-7106-MS)
FOWLER, MALCOLM M. (CNC-11)
SEDLACEK, WILLIAM A. (CNC-11)

33-14
RESONANTLY ENHANCED FOUR - WAVE
MIXING.

PATENTED

JUNE 13, 1978, FILED 1977.

(U.S. PATENT-4,095,121)

BEGLEY, RICHARD F. (AP-4)

KURNIT, NORMAN A. (AP-2)

33-15
SCANNING ELECTRON MICROSCOPE.

LASL

MINI-REVIEW. 1978. 4P.

(LASL-78-17)

SMITH, ROBERT E. (M-1)

33-16
TILTED MIRROR UNSTABLE
RESONATOR LASER CAVITY.

IEEE J. QUANTUM ELECTRON.,

V.QE-14, P.103-7. 1978.

KURNIT, NORMAN A. (AP-2)

34. ISOTOPE SEPARATION

34-1
CARBON DIOXIDE LASER INDUCED
REACTIONS OF SF₆/SUB 5/CL.

J. CHEM. PHYS.,
V.68, P.1671-6. 1978.
LEARY, KEVIN M. (AP-4)
LYMAN, JOHN L. (AP-4)
ASPREY, LARNED B. (CNC-4)
FREUND, SAMUEL M. (AP-4)

34-2
FILLING IN THE GAPS. SHG IN AD-P.
ELECTRO-OPTICS/LASER 77
CONFERENCE AND EXPOSITION.
1977. ANAHEIM, CA. PROC.,
P.92-5. INDUSTRIAL AND
SCIENTIFIC CONFERENCE MANAGEMENT,
1977. (535/E38OL 1977)
BALOG, GEORGE (AP-2)

34-3
HETEROGENEOUS CONDENSATION OF
BORON TRICHLORIDE IN THE PRESENCE
OF CARBON DIOXIDE LASER IRRADIATION.
OPT. LETT.,
V.3, P.10-12. 1978.
ANDERSON, GRAYDON K. (AP-3)
LEE, JAMES T., JR. (AP-1)

34-4
HIGH ENERGY LASING OF XENON BROMIDE IN
AN ELECTRIC DISCHARGE.
APPL. PHYS. LETT.,
V.32, P.479-80. 1978.
SZE, ROBERT C. (AP-2)
SCOTT, PETER B. (AP-2)

34-5
INTRACAVITY INFRARED SECOND
HARMONIC GENERATION USING CADMIUM
TELLURIDE PLATES.

ELECTRO-OPTICS/LASER 77
CONFERENCE AND EXPOSITION.
1977. ANAHEIM, CA. PROC.,
P.102-10. INDUSTRIAL AND
SCIENTIFIC CONFERENCE MANAGEMENT,
1977. (535/E38OL 1977)
ECKHARDT, ROGER C. (AP-2)
HINSLEY, RONALD (AP-2)
PILTCH, MARTIN S. (AP-2)

34-6
ISOTOPE SEPARATION IN CARBON
DISULFIDE. AN ARGON FLUORIDE
LASER APPLICATION.
LASER AND ELECTROOPTICAL SYSTEMS.
1978. OSA/IEEE CONFERENCE,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, NO.THDD3,
P.88. OSA, 1978.
(621.36/L343E 1978)
LOREE, THOMAS R. (AP-2)
CLARK, JOHN H. (AP-3)
BUTTERFIELD, KENNETH B. (AP-2)
LYMAN, JOHN L. (AP-3)
ENGLEMAN, ROLF, JR. (CMB-1)

34-7
KILOMETER PATH LOW TEMPERATURE
MULTIPLE REFLECTION CELL FOR
LASER SPECTROSCOPY USING TUNABLE
SEMICONDUCTOR DIODES.
APPL. OPT.,
V.17, P.2511-5. 1978.
KIM, KYU C. (AP-4)
GRIGGS, JAMES E. (AP-1)
PERSON, WILLIS B. (AP-4)

34-8
LASER - INDUCED TIME - RESOLVED
PHOSPHORESCENCE OF 2, 4-
PENTADIONE (A TAUTOMERIC
SYSTEM).
J. PHOTOCHEM.,
V.8, P.273-5. 1978.
WAMPLER, FRED E. (AP-3)
OLDENBORG, RICHARD C. (AP-3)

34-9
LASER INDUCED TIME RESOLVED
PHOSPHORESCENCE OF OXALYL FLUORIDE
/SUP 3/A/SUB U/ MOLECULES.
J. PHOTOCHEM.,
V.9, P.407-9. 1978.
KARL, ROBERT R. (AP-3)
WAMPLER, FRED E. (AP-3)
OLDENBORG, RICHARD C. (AP-3)
RICE, WALTER W. (AP-2)

34-10
LASER ISOTOPE SEPARATION.
LASERS IN CHEMISTRY. 1977.
CONF., THE ROYAL INSTITUTION,
LONDON. PROC., P.184-94.
M.A. WEST, ED. ELSEVIER, 1977.
(541.35/L343C)
ROBINSON, C. PAUL (AP-DO)
JENSEN, REED J. (AP-DO)
CANTRELL, CYRUS D., III (T-12)

- 34-11
LASER SYNTHETIC CHEMISTRY.
TIC,
1977. 11P. MN (LA-UR-77-2790)
LEARY, KEVIN M. (AP-3)
CLARK, JOHN H. (AP-3)
- 34-12
LIFETIMES OF ELECTRONICALLY EXCITED
URANIUM HEXAFLUORIDE IN THE
PRESENCE OF INORGANIC QUENCHERS.
J. PHOTOCHEM.,
V.9, P.473-9. 1978.
WAMPLER, FRED B. (AP-3)
OLDENBORG, RICHARD C. (AP-3)
RICE, WALTER W. (AP-2)
- 34-13
MULTIPLE PHOTON ISOTOPE
SEPARATION IN MOLYBDENUM
HEXAFLUORIDE.
CHEM. PHYS. LETT.,
V.55, P.435-8. 1978.
FREUND, SAMUEL M. (AP-3)
LYMAN, JOHN L. (AP-3)
- 34-14
OPTICAL Q-BRANCH PUMPING OF THE
P- AND R- BRANCH TRANSITIONS IN
THE NU MODE OF SULFUR
HEXAFLUORIDE.
J. QUANT. SPECTROSC. RADIAT. TRANSFER
V.20, P.409-18. 1978.
EMANUEL, GEORGE (AP-DOT)
- 34-15
PHOTOCHEMICAL REDUCTION OF URANYL
TRI-N-BUTYL PHOSPHATE.
II. TEMPERATURE DEPENDENCE AND
QUANTUM YIELD.
J. INORG. NUCL. CHEM.,
V.40, P.1895-7. 1978.
DE POORTER, GERALD L. (AP-4)
ROFER-DE POORTER, CHERYL K. (AP-4)
- 34-16
PHOTOLYTIC SEPARATION OF D FROM H IN
CRYOGENIC SOLUTIONS OF FORMALDEHYDE.
J. CHEM. PHYS.,
V.69, P.1961-5. 1978.
MAIER, WILLIAM B., II (AP-4)
FREUND, SAMUEL M. (AP-4)
HOLLAND, REDUS F. (AP-4)
BEATTIE, WILLARD H. (AP-4)
- 34-17
PURIFICATION OF MATERIALS USING
INFRARED LASERS. REMOVAL OF
DIBORANE FROM SILANE.
ELECTRO-OPTICS/LASER 77
CONFERENCE AND EXPOSITION.
1977. ANAHEIM, CA. PROC.,
P.609. INDUSTRIAL AND
SCIENTIFIC CONFERENCE MANAGEMENT,
1977. (535/E38OL 1977)
FREUND, SAMUEL M. (AP-3)
DANEN, WAYNE C. (AP-3)
- 34-18
QUANTITATIVE DETECTION OF TRACE
IMPURITIES IN CASES BY INFRARED
SPECTROMETRY OF CRYOGENIC SOLUTIONS.
ANAL. CHEM.,
V.50, P.1260-2. 1978.
FREUND, SAMUEL M. (AP-4)
MAIER, WILLIAM B., II (AP-4)
HOLLAND, REDUS F. (AP-4)
BEATTIE, WILLARD H. (AP-4)
- 34-19
SILANE PURIFICATION VIA LASER -
INDUCED CHEMISTRY.
APPL. PHYS. LETT.,
V.32, P.46-9. 1978.
CLARK, JOHN H. (AP-3)
ANDERSON, ROBERT G. (AP-3)
- 34-20
SPACE CHARGE IN LINEAR
ACCELERATORS WORKSHOP.
LASL,
1978. 168P. SPACE CHARGE
IN LINEAR ACCELERATORS. 1977.
WORKSHOP, LOS ALAMOS, NM.
PROC. R.A. JAMESON, ED. LASL,
1978. (LA-7265-C)
JAMESON, ROBERT A. (MP-9) ED.
SHREFFLER, L. COMP.
- 34-21
SPECTRAL TUNING OF ARGON FLUORIDE AND
KRYPTON FLUORIDE DISCHARGE LASERS.
APPL. PHYS. LETT.,
V.32, P.171-3. 1978.
LOREE, THOMAS R. (AP-2)
BUTTERFIELD, KENNETH B. (AP-2)
BARKER, DEAN L. (AP-2)

35. LIGHT WATER REACTOR TECHNOLOGY

35-1
COMPARISON OF CONTEMPT-LT CALCULATIONS
WITH MARVIKEN EXPERIMENTS.
TRANS. AM. NUCL. SOC.,
V.28, P.412. 1978.
WILLCUTT, GORDON J., JR. (Q-6)
GIDO, RICHARD G. (Q-6)

35-2
FILM ENTRAINMENT DETERMINATION FOR
CONTAINMENT SUBCOMPARTMENT FLOWS.
TRANS. AM. NUCL. SOC.,
V.28, P.406-7. 1978.
KOESTEL, ALFRED (Q-6)
GILBERT, JOEL S. (Q-6)
GIDO, RICHARD G. (Q-6)

35-3
FLUID - STRUCTURE RESPONSE OF A
PRESSURIZED WATER REACTOR CORE
BARREL DURING BLOWDOWN.
LASL,
1978. 25P. (LA-7404)
RIVARD, WILLIAM C. (T-3)
TORREY, MARTIN D. (T-3)

35-4
MIXING OF RADIOLYTIC HYDROGEN
GENERATED WITHIN A CONTAINMENT
COMPARTMENT FOLLOWING A LOCA.
LASL,
1978. 56P. (LA-7421-MS)
WILLCUTT, GORDON J., JR. (Q-6)
GIDO, RICHARD G. (Q-6)

35-5
NUMERICAL STUDY OF APPARATUS
SCALING IN A PRESSURIZED WATER
REACTOR. A STATUS REPORT - MAY 1978.
LASL,
1978. 36P. (LA-7387-SR)
DALY, BART J. (T-3)

35-6
PORTABLE ACTIVE NEUTRON INTERROGATION
SYSTEM FOR LIGHT - WATER REACTOR
FUEL ASSEMBLIES.
LASL,
1978. 13P. (LA-7528-M)
BRANDENBERGER, JERRY D. (Q-1)
MENLOVE, HOWARD O. (Q-1)
MEDINA, EVITA G. (Q-1)

35-7
TRAC (TRANSIENT REACTOR ANALYSIS
CODE) HYDRODYNAMICS.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.101. LASL, 1978. (LA-7417-C)
LILES, DENNIS R. (Q-6)
MAHAFFY, JOHN H. (Q-6)
WILLIAMS, KEN A. (Q-6)

35-8
TRAC-P1 - AN ADVANCED BEST
ESTIMATE COMPUTER PROGRAM FOR PWR LOCA
ANALYSIS 1. METHODS, MODELS, USER
INFORMATION, AND PROGRAMMING DETAILS.
LASL,
1978. 385P. (NUREG/CR-0063)
(LA-7279-MS, VOL.1)
THERMAL REACTOR SAFETY GROUP

35-9
TRAC-P1 POST TEST ANALYSIS OF
U.S. STANDARD PROBLEM 7.
TRANS. AM. NUCL. SOC.,
V.30, P.387-8. 1978.
PYUN, JUNGJO (Q-6)
WILLIAMS, KEN A. (Q-6)

36. LIQUID METAL FAST BREEDER REACTORS: TECHNOLOGY

36-1
APPLICATION OF THE SIMMER-1 CODE TO
LOF ACCIDENTS IN AN LMFBFR.

LASL,
1978. 19P. (LA-7194-MS)
HENNINGER, RUDOLPH J. (T-1)
ALCOUFFE, RAYMOND E. (T-1)

36-2
ENDF/E-IV, LIB-IV, AND THE CSEWG
BENCHMARKS.

LASL,
1978. 50P. (LA-7355-MS)
KIDMAN, RUSSELL B. (T-2)

36-3
EVALUATION OF HODOSCOPES FOR FUEL -
MOTION MEASUREMENT IN MULTIPIN
BUNDLES.

TRANS. AM. NUCL. SOC.,
V.30, P.465-6. 1978.
EVANS, ALBERT E., JR. (Q-14)
ORNDOFF, JOHN D. (Q-14)
TALBERT, W. L., JR. (Q-14)

36-4
LINEAR, CONTINUOUS TRIANGULAR MESH
DIFFERENCE SCHEME FOR TRANSPORT
CODES.

TRANS. AM. NUCL. SOC.,
V.28, P.257-8. 1978.
WALTERS, WALLACE F. (T-1)
O'DELL, R. DOUGLAS (T-1)

36-5
LOS ALAMOS FAILURE MODEL (LAFM),
A CODE FOR THE PREDICTION OF LMFBFR
FUEL PIN FAILURE.

LASL,
1978. 43P. (LA-7161-MS)
MAST, PETER K. (Q-7)

37. LMFBR--FUELS AND MATERIALS ENGINEERING AND DEVELOPMENT:BASE TECHNOLOGY

37-1

COMPUTER ANALYSIS AND CONTROL FOR NON -
DESTRUCTIVE GAMMA SCANNING OF LMFBR
FUEL PINS.

TRANS. AM. NUCL. SOC.,

V.28, P.65-6, 1978.

BARNES, BARRY K. (CMB-1)

PHILLIPS, JOHN R. (CMB-1)

WATERBURY, GLENN R. (CMB-1)

37-6

RESULTS OF RESEARCH INTO SUPERCONDUCTING
SWITCHES WITH HIGH SPECIFIC
SWITCHING CAPACITY. TRANSLATION OF
GLUKHIKH, V.A. ET AL. REZUL'TATY
ISSLEDOVANIY SVERKHPROVODIASHCHIKH
KLIUCHEI S VYSOKOI UDEL'NOI
RAZRYVNOI MOSHCHNOST'IU.

LASL,

1977, 8P. (LA-TR-78-13)

MACHALEK, MILTON D. (CTR-2) TRANS

37-2

EXAMINATION OF FAST REACTOR FUELS,
FBR ANALYTICAL QUALITY ASSURANCE
STANDARDS AND METHODS, AND
ANALYTICAL METHODS DEVELOPMENT -
IRRADIATION TESTS, JANUARY 1-
MARCH 31, 1978.

LASL,

1978, 9P. (LA-7266-PR)

BAKER, RICHARD D. (CMB-DO) COMP.

37-3

EXAMINATION OF FAST REACTOR FUELS,
FBR ANALYTICAL QUALITY ASSURANCE
STANDARDS AND METHODS, AND
ANALYTICAL METHODS DEVELOPMENT -
IRRADIATION TESTS, APRIL 1-
JUNE 30, 1978.

LASL,

1978, 11P. (LA-7430-PR)

BAKER, RICHARD D. (CMB-DO) COMP.

37-4

EXAMINATION OF FAST REACTOR FUELS,
FBR ANALYTICAL QUALITY ASSURANCE
STANDARDS AND METHODS, AND
ANALYTICAL METHODS DEVELOPMENT -
IRRADIATION TESTS, JULY 1 -
SEPTEMBER 30, 1978.

LASL,

1978, 14P. (LA-7559-PR)

BAKER, RICHARD D. (CMB-DO) COMP.

37-5

EXAMINATION OF FAST REACTOR FUELS, FBR
ANALYTICAL QUALITY ASSURANCE STANDARDS
AND METHODS, AND ANALYTICAL METHODS
DEVELOPMENT - IRRADIATION TESTS,
OCTOBER 1 - DECEMBER 31, 1977.

LASL,

1978, 14P. (LA-7171-PR)

BAKER, RICHARD D. (CMB-DO) COMP.

38. LMFBR--SAFETY TECHNOLOGY

38-1
APPLICATION OF A NONREDUNDANT
PINHOLE ARRAY TO A TEST FUEL ELEMENT
AT TREAT.

TRANS. AM. NUCL. SOC.,
V.30, P.466-8. 1978.
HAN, KI S. (J-12)
BERZINS, GEORGE J. (J-12)

38-2
COMPUTER SIMULATION OF LMFBR
ACCIDENT SEQUENCES BY SIMMER-II.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. AEST. J.J. RUMINER, COMP.
P.100-1. LASL, 1978. (LA-7417-C)
BOHL, WILLIAM R. (Q-7)

38-3
EXPLORATORY COMPARISON OF METHODS
FOR COMBINING FAILURE-RATE DATA
FROM DIFFERENT DATA SOURCES.

LASL,
1978. 31P. (LA-7556-MS)
MARTZ, HARRY F., JR. (S-1)
WALLER, RAY A. (S-1)

38-4
EXTENDED LIKELIHOOD INFERENCE IN
RELIABILITY.

LASL,
1978. 30P. (LA-7517-MS)
MARTZ, HARRY F., JR. (S-1)
BECKMAN, RICHARD J. (S-DO)
WALLER, RAY A. (S-1)

38-5
NUCLEAR REACTOR SAFETY. QUARTERLY
PROGRESS REPORT, JULY 1-SEPTEMBER 30,
1977.

LASL,
1978. 77P. (LA-7039-PR)
JACKSON, JAMES F. (Q-DO) COMP.
STEVENSON, MICHAEL G. (Q-DO) COMP.

38-6
ROLE OF MECHANISTIC ANALYSIS IN
PROVIDING PAHR INITIAL CONDITIONS.

TIC,
1977. 3P. MN (LA-UR-78-495)
JACKSON, JAMES F. (Q-DO)

38-7
SIMMER-II. A COMPUTER PROGRAM FOR
LMFBR DISRUPTED CORE ANALYSIS.

LASL,
1978. 2 VOLS. (LA-7515-M)
SMITH, LARON L. (Q-7)
BELL, CHARLES R. (Q-7)
BLEIWEIS, PAUL B. (Q-6)
BOHL, WILLIAM R. (Q-7)
BOUDREAU, JAY E. (Q-7)
BURNS, ROBERT D., III (Q-7)
DE VAULT, GUILLAUME P. (Q-7)
KERLEY, GERALD I. (T-4)
LUCK, LARRY B. (Q-7)
SMITH, S. T.
PARKER, FREDERICK (Q-7)
STEINKE, ROBERT G. (Q-7)
SUO-ANTTILA, A. J. (Q-7)
TRAVIS, JOHN R. (T-3)

38-8
SIMPLE COMPUTATIONAL MODEL FOR THE
PREDICTION OF FUEL PIN FAILURE IN THE
TRANSIENT OVERPOWER ACCIDENT.

TRANS. AM. NUCL. SOC.,
V.28, P.474-5. 1978.
MAST, PETER K. (Q-7)
SCOTT, JAMES H. (Q-7)
DORNING, J. J.

38-9
STATISTICAL ANALYSIS OF SIMMER-II
RESULTS.

TRANS. AM. NUCL. SOC.,
V.28, P.513-4. 1978.
BURNS, ROBERT D., III (Q-7)
LUCK, LARRY B. (Q-7)

38-10
TWO - PHASE MOMENTUM EXCHANGE EXPERIMENT
AND ANALYSIS.

TRANS. AM. NUCL. SOC.,
V.28, P.445-6. 1978.
REXROTH, PAUL E. (Q-7)
STARKOVICH, VICTOR S. (Q-8)

39. MAGNETIC FUSION ENERGY

39-1
CALCULATIONS OF THE EFFECTS OF
INCOMPLETE PREIONIZATION IN
HIGH VOLTAGE THETA PINCHES.
PHYS. FLUIDS,
V.21, P.1410-6. 1978.
SGRO, ANTHONY G. (CTR-6)

39-2
CLASSIFICATION OF BE I-LIKE AND
B I-LIKE IRON AND VANADIUM
SPECTRA FROM LASER-PRODUCED PLASMAS.
J. OPT. SOC. AM.
V.68, P.48-51. 1978.
BROMAGE, G. E.
COWAN, ROBERT D.
FAWCETT, B. C.
RIDGELEY, A.

39-3
CONSISTENCY OF DIFFERENTIAL AND INTEGRAL
THERMONUCLEAR NEUTRONICS DATA.
LASL,
1978. 235P. THESIS, GEORGIA
INST. OF TECHNOLOGY, ATLANTA, 1977.
(LA-7067-T)
REUPKE, WILLIAM A. (T-2)

39-4
ENERGY - BALANCE AND ECONOMIC
CONSIDERATIONS FOR FUSION THERMOCHEMICAL
HYDROGEN PRODUCTION.
TRANS. AM. NUCL. SOC.,
V.30, P.42-3. 1978.
TAI, A. S. (CTR-12)
KRAKOWSKI, ROBERT A. (CTR-12)

39-5
EXPERIMENTAL AREA AND REMOTE
HANDLING FACILITIES OF THE JET
TARGET INTENSE NEUTRON SOURCE.
TIC
1978. 17P. MN (LA-UR-78-1229)
MEIER, KARL L. (P-14)

39-6
EXTRACTION OF TRITIUM FROM HELIUM
STREAMS USING LANTHANUM 5.25 NICKEL.
LASL,
1978. 9P. (LA-7209-MS)
CARSTENS, DEAN H. W. (CMB-3)

39-7
HEAT TRANSFER IN THE LITHIUM - COOLED
BLANKET OF A PULSED FUSION REACTOR.
TIC
1978. 7P. MN (LA-UR-77-1754)
CORT, GEORGE E. (WX-4)
KRAKOWSKI, ROBERT A. (CTR-DO)

39-8
HYDROGEN ISOTOPE DISTILLATION FOR
THE TRITIUM SYSTEMS TEST ASSEMBLY.
TIC
1978. 7P. MN (LA-UR-78-1325)
BARTLIT, JOHN R. (Q-10)
DENTON, WILLIAM H. (Q-10)
SHERMAN, ROBERT H. (Q-10)

39-9
LASL CONTROLLED THERMONUCLEAR
RESEARCH PROGRAM, JANUARY - DECEMBER
1976.
LASL,
1978. 229P. (LA-7082-PR)
THOMAS, KEITH S. (CTR-7) COMP.

39-10
MEASUREMENT OF NON - MAXWELLIAN ELECTRON
VELOCITY DISTRIBUTIONS IN A REFLEX
DISCHARGE.
J. PLASMA PHYS.,
V.19, PT.2, P.267-80. 1978.
PHIPPS, CLAUDE R., JR. (L-9)
PERSHADER, D.

39-11
MULTIDIMENSIONAL QUASINEUTRAL
PLASMA SIMULATION MODEL.
J. COMPUT. PHYS.,
V.29, P.219-36. 1978.
HEWETT, DENNIS W. (CTR-6)
NIELSON, CLAIR W. (CTR-10)

39-12
NOVEL INTERFEROMETER FOR THE
MEASUREMENT OF PLASMA DENSITY.
REV. SCI. INSTRUM.,
V.49, P.318-20. 1978.
JACOBSON, ABRAHAM R. (CTR-7)
CALL, D. L. (L-10)

39-13
NUCLEAR MATTER DISTRIBUTIONS WITH
PIONS.
COMMENTS NUCL. PART.
PHYS., 1978, V.8, NO.3, P.75-88.
JOHNSON, MIKKEL B. (MP-DO)
BETHE, HANS A. (T-DO)

39-14
PROPOSAL FOR THE THEORETICAL
INVESTIGATION OF THE RELATIVISTIC
BEAM-PLASMA INTERACTION WITH
APPLICATION TO THE PROOF-OF-
PRINCIPLE ELECTRON BEAM-HEATED
LINEAR SOLENOIDAL REACTOR.
LASL,
1978. 18P. (LA-7359-P)
THODE, LESTER E. (T-15)

- 39-15
RECENT WORK ON NORMAL AND
SUPERCONDUCTING INDUCTIVE ENERGY
STORAGE AND SWITCHING AT THE
EFREMOV INSTITUTE, LENINGRAD,
USSR.
ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.1,
P.907-8. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
ALSO PUBLISHED IN:
TIC,
1977. 3P. MN (LA-UR-77-2390)
MACHALEK, MILTON D. (CTR-7)
- 39-16
SECOND - ORDER THEORY FOR
K PARALLEL TO B O ELECTROMAGNETIC
INSTABILITIES.
PHYS. FLUIDS,
V.21, P.72-80. 1978.
GARY, S. PETER (P-4)
FELDMAN, WILLIAM C. (P-4)
- 39-17
SHIELDING CALCULATIONS FOR THE
INTENSE NEUTRON SOURCE FACILITY -
FINAL REPORT.
LASL,
1978. 19P. (LA-7332-MS)
BATTAT, MORRIS E. (T-1)
HEMNINGER, RUDOLPH J. (T-1)
MAC DONALD, JAMES L. (T-1)
DUDZIAK, DONALD J. (T-1)
- 39-18
STIMULATED BRILLOUIN BACKSCATTER
DETECTION FROM A THETA - PINCH PLASMA.
J. APPL. PHYS.,
V.49, P.2566-8. 1978.
ARMSTRONG, WILLIAM T. (CTR-3)
- 39-19
STUDY OF EQUILIBRIUM AND STABILITY OF
HIGH-BETA TOKAMAKS SURROUNDED
BY FORCE-FREE FIELDS.
STICHTING VOOR FUNDAMENTEEL
ONDERZOEK DER MATERIE, JUTPHAAS
(NETHERLANDS). INSTITUUT VOOR
PLASMA-FYSICA. RIJNHUIZEN REPORT
78-108. 120P. 1978.
(RIJNHUIZEN-78-108)
D'LEPPOLITO, D. A.
FREIDBERG, JEFFREY P. (CTR-6)
GOEDBLOED, J. P.
REM, J.
- 39-20
SYSTEM OF NONLINEAR PARTIAL DIFFERENTIAL
EQUATIONS DESCRIBING CYLINDRICAL PLASMA
COLLAPSE.
LASL,
1978. 28P. (LA-6824)
CARASSO, ALFRED S.
SUYDAM, BERGEN R. (T-7)
- 39-21
TECHNOLOGY PROBLEMS IN THETA PINCH
REACTORS.
TIC,
1976. 10P. (LA-UR-76-2167)
THOMASSEN, KEITH I. (CTR-DO)
- 39-22
THREE - DIMENSIONAL MAGNETOHYDRODYNAMIC
TURBULENCE IN CYLINDRICAL GEOMETRY.
PHYS. FLUIDS,
V.21, P.757-64. 1978.
MONTGOMERY, DAVID
TURNER, LEAF (CTR-6)
VAHALA, GEORGE
- 39-23
TRIDENT-CTR. A TWO-DIMENSIONAL
TRANSPORT CODE FOR CTR APPLICATIONS.
TIC,
1978. 9P. MN (LA-UR-78-1288)
SEED, THOMAS J. (T-1)
- 39-24
TRITIUM SYSTEMS TEST ASSEMBLY AT THE
LOS ALAMOS SCIENTIFIC LABORATORY.
TIC,
1978. 7P. MN (LA-UR-78-1274)
ANDERSON, JAMES L. (CMB-3)
- 39-25
USE OF BINARY ALLOYS OF THE
LANTHANIDES FOR TRITIUM RECOVERY.
TRANS. AM. NUCL. SOC.,
V.28, P.202. 1978.
ALSO PUBLISHED IN:
TIC,
1978. 5P. MN (LA-UR-78-1231)
CARSTENS, DEAN H. W. (CMB-3)
- 39-26
VACUUM INTERRUPTERS USED FOR THE
INTERRUPTION OF HIGH DC CURRENTS.
ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.2,
P.1774-8. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
ALSO PUBLISHED IN:
TIC,
1977. 6P. MN (LA-UR-77-2356)
WARREN, ROGER W. (CTR-9)
- 39-27
ZT-40 ADMINISTRATIVE PLAN.
LASL,
1978. 20P. (LA-7425-MS)
THOMAS, KEITH S. (CTR-7) COMP.
- 39-28
ZT-40 TOROIDAL REVERSED - FIELD
PINCH.
LASL
MINI-REVIEW. 1978. 4P.
(LASL-78-18)
MACHALEK, MILTON D. (AT-4)

40. MATERIALS

40-1
ABSORPTION OF DEUTERIUM BY CERIU -
CONTAINING BINARY ALLOYS.

J. NUCL. MATER.,
V.73, P.50-7. 1978.
CARSTENS, DEAN H. W. (CMB-3)

40-2
ALPHA - GAMMA PHASE TRANSITIONS IN
CERIUM - THORIUM ALLOYS UNDER HIGH
PRESSURE.

TIC,
1977. 26P. MN (LA-UR-77-2153)
ALSO PUBLISHED IN:
HIGH PRESSURE AND LOW TEMPERATURE
PHYSICS. 1977. INTERNATIONAL
CONFERENCE, CLEVELAND. PROC.,
P.169-86. C. W. CHAN, ED.
PLENUM, 1978.
HUANG, CHAO-YUAN (Q-10)
SMITH, JAMES L. (CMB-5)
CHU, C. W.
SCHMIDT, P. H.

40-3
APPLICATION OF A DOUBLE PASS CMA
TO ION SCATTERING FROM SOME
ACTINIDE MATERIALS.

J. VAC. SCI. TECHNOL.,
V.15, P.679-83. 1978.
ALSO PUBLISHED IN:
TIC,
1977. 23P. MN (LA-UR-77-2072)
ELLIS, WALTON P. (CMB-8)
TAYLOR, THOMAS N. (CMB-8)

40-4
BRAZING MOLYBDENUM AND TUNGSTEN FOR
HIGH TEMPERATURE SERVICE.

WELDING J. RES.,
SUPPL., OCT. 1978. 8P.
LUNDBERG, LYNN B. (Q-13)
TURNER, WILLIAM C. (L-10)
HOFFMAN, CARROLL G. (L-7)

40-5
BRITTLE FRACTURE IN IRIDIUM.

METALL. TRANS.,
V.9A, P.481-8. 1978.
HECKER, SIEGFRIED S. (CMB-5)
ROHR, DANA L. (CMB-5)
STEIN, D. F.

40-6
CERAMIC MATERIALS APPLICATIONS IN FUSION
REACTORS.

CERAM. IND.,
V.110, NO.4, 4 PAGES. 1978.
HURLEY, GEORGE F. (CMB-5)

40-7
CESIUM SOLUBILITY, DIFFUSION,
AND PERMEATION IN ZIRCONIUM
CARBIDE.

J. NUCL. MATER.,
V.73, P.169-79. 1978.
STARK, WALTER A., JR. (CMB-3)

40-8
COMPARISON OF INITIAL DAMAGE RATES
USING NEUTRON AND ELECTRON
IRRADIATIONS.

LASL,
1978. THESIS, STATE U. OF NY,
STONY BROOK, 1978. 137P.
(LA-7424-T)
GOLDSTONE, JOYCE A. (CMB-8)

40-9
DAMAGE ENERGY FUNCTIONS FOR COMPOUNDS
AND ALLOYS.

TRANS. AM. NUCL. SOC.,
V.27, P.318-20. 1977.
ALSO PUBLISHED IN:
TIC,
1977. 6P. MN (LA-UR-77-1444)
PARKIN, DON M. (CMB-8)
COULTER, C. ALTON (MP-DO)

40-10
DENSITY OF STATES OF FCC
NIOBIUM(3) GOLD - A COMPARISON WITH
A-15 NIOBIUM(3) GOLD.
SOLID STATE COMMUN.,
V.26, P.669-70. 1978.
STEWART, GREGORY R. (CMB-3)
GIORGI, ANGELO L. (CMB-3)

40-11
DIFFICULTIES IN PRODUCING PURE
ALPHA - PHASE PLUTONIUM.

J. NUCL. MATER.,
V.73, P.204-7. 1978.
SANDENAW, THOMAS A. (CMB-8)

40-12
DYNAMIC PLASTIC INSTABILITIES IN
STRETCHING PLATES AND SHELLS.

J. APPL. MECH.,
V.45, P.105-10. 1978.
TAYLOR, JOHN W. (M-DO)
HARLOW, FRANCIS H., JR. (T-3)
AMSDEN, ANTHONY A. (T-3)

40-13
FABRICATION OF AN ALUMINA TORUS
FOR THERMONUCLEAR FUSION
CONTAINMENT.

LASL,
1978. 11P. (LA-7255-MS)
HAUTH, WILLARD E. (CMB-6)
BLAKE, RODGER D. (CMB-6)
DICKINSON, JAMES M. (CMB-6)
RUTZ, HEIDI L. (CMB-6)
STODDARD, STEPHEN D. (CMB-6)

40-14
HANDBOOK OF FILLERS AND
REINFORCEMENTS FOR PLASTICS.

VAN NOSTRAND REINHOLD,
1978. 652P. (668.4/K19H)
KATZ, HARRY S. ED.
MILEWSKI, JOHN V. ED.

40-15
HIGH CONDUCTIVITY, HIGH SPECIFIC
HEAT COPPER FOR CRYOGENIC
APPLICATIONS.

J. APPL. PHYS.,
V.49, P.3612-3. 1978.
STEYERT, WILLIAM A., JR. (Q-10)

40-16
HIGH FIELD PROPERTIES OF
CVD-PREPARED NIOBIUM(3)GERMANIUM.

EULL, AM. PHYS. SOC.,
V.23, P.322. 1978.
THOMPSON, JOE D. (Q-10)
MALEY, MARTIN P. (Q-10)
NEWKIRK, LAWRENCE R. (CMB-3)

40-17
INJECTION MOLDABLE CERAMICS.

LASL,
1978. 10P. (LA-6960)
NEWFIELD, STEPHEN E. (CMB-6)
GAC, FRANK D. (CMB-6)

40-18
INVESTIGATION OF COMPOSITES
UTILIZING LOW - COST SMALL
DIAMETER SPHERES AS A FILLER.

REINFORCED PLASTICS COMPOSITES
INSTITUTE. TECHNICAL CONF. 1978.
33RD ANNUAL, WASHINGTON, D.C.
PROC., SECT.2-A, P.1-5. SPI,
1978.
EHRENREICH, LEO C.
KATZ, HARRY S.
MILEWSKI, JOHN V.

40-19
ION - SCATTERING STRUCTURE STUDIES
OF URANIUM DIOXIDE SURFACES.

SURF. SCI.,
V.75, P.279-86. 1978.
ELLIS, WALTON P. (CMB-8)
TAYLOR, THOMAS N. (CMB-8)

40-20
ITINERANT ANTIFERROMAGNETISM
OF TIB(2).

J. PHYS.,
LETT., V.39, P.L-441-2. 1978.
MATTHIAS, E. T.
GIORGI, ANGELO L. (CMB-3)
STRUEBING, VERNON O. (CMB-5)
SMITH, JAMES L. (CMB-5)

40-21
LEED STUDY OF URANIUM
OXIDE (APPROXIMATELY 100) VICINAL
SURFACES.

SURF. SCI.,
V.77, P.321-36. 1978.
TAYLOR, THOMAS N. (CMB-8)
ELLIS, WALTON P. (CMB-8)

40-22
MAGNESIUM OXIDE AND SPINEL PARTS
FABRICATION.

LASL,
1978. 5P. (LA-7289)
SHEINBERG, HASKELL (CMB-6)
GAC, FRANK D. (CMB-6)
HAUTH, WILLARD E. (CMB-6)

40-23
MAGNETIC AND SUPERCONDUCTING
TRANSITIONS IN $Gd(x)Er(1-x)Rh(4)B(4)$
AND $Gd(x)Y(1-x)Rh(4)B(4)$.

TIC,
1977. 11P. MN (LA-UR-77-2372)
ALSO PUBLISHED IN:
J. APPL. PHYS.,
V.49, P.1392-4. 1978.
WANG, RUN-HAN (Q-10)
LASKOWSKI, R. J. (Q-10)
HUANG, CHAO-YUAN (Q-10)
SMITH, JAMES L. (CMB-5)
CHU, C. W. (Q-10)

40-24
MELTING POINT OF YTTRIA.
HIGH TEMP. SCI.,
V.9, P.197-207. 1977.
SKAGGS, SAMUEL R. (CMB-3)

40-25
METAL - CARBON BOND DISSOCIATION
ENERGIES AND ENTHALPIES OF
FORMATION FOR GASEOUS METAL
CARBONYLS.
J. LESS-COMMON METALS,
V.58, P.47-54. 1978.
BEHRENS, ROBERT G. (CMB-3)

40-26
MICROWAVE RESISTIVITIES OF $Tm/SUB Y/$
 $(LA,Y)/SUB 1-Y/S$ AND
 $Tm/SUB Y/(LA,Y)/SUB 1-Y/TE$.
J. PHYS. SOC. JAPAN,
V.41, P.1803-4. 1976.
HUANG, CHAO-YUAN (Q-26)
SUGAWARA, K.

- 40-27
PHASE INVESTIGATIONS OF THE
PLUTONIUM - PLATINUM, PLUTONIUM -
RHODIUM, AND PLUTONIUM - PLATINUM -
RHODIUM SYSTEMS.
J. NUCL. MATER., 1978.
V.75, P.262-73.
LAND, CLETIS C. (CMB-5)
PETERSON, DEAN E. (CMB-5)
ROOF, RAYMOND BRADLEY, JR. (CMB-5)
- 40-28
POINT DEFECT DISLOCATION SINK STRENGTH.
J. NUCL. MATER., 1978.
V.75, P.312-3.
GREEN, WALTER V. (CMB-8)
WEERTMAN, JOHANNES (CMB-8)
- 40-29
PROCESSES OF PLASTIC DEFORMATION,
THEIR CONDITIONS AND EFFECT ON THE
PROPERTIES OF THE FINAL PRODUCT.
TRANSLATION OF NEKOTORYE STORONY
PROBLEMY POLUCHENIIA
SVERKHPROVODIASHCHIKH MATERIALOV BY
I. M. PAVLOV, ET AL. PLASTICHESKAIA
DEFORMATSIIA NERIADNOVYKH
METALLICHESKIKH MATERIALOV,
P.184-92. 1976.
LASL,
1977. 16P. (LA-TR-77-68)
(620/P338PT)
MANCA, VARLERIE M. (ISD-4) TRANSLATOR
- 40-30
QUANTITATIVE COMPARISON OF THE
DOUBLY INTEGRATED KLL AUGER
SPECTRA OF MAGNESIUM, ALUMINUM
AND SILICON WITH THEIR OXIDES.
PROGRESS IN QUANTITATIVE SURFACE
ANALYSIS. 1977. SYMP.
CLEVELAND. PAPERS. QUANTITATIVE
SURFACE ANALYSIS OF MATERIALS.
N.S. MCINTYRE, ED. P.64-71. ASTM,
1978. (669/P9640)
SPRINGER, ROBERT W. (CMB-6)
HAAS, T. W.
GRANT, J. T.
- 40-31
RATE AND PRESSURE DEPENDENCE OF
CONTAMINANTS IN VACUUM DEPOSITED
ALUMINUM FILMS.
J. VAC. SCI. TECHNOL.,
V.15, P.210-4. 1978.
SPRINGER, ROBERT W. (CMB-6)
CATLETT, DUANE S. (CMB-6)
- 40-32
RE-ENTRANT SUPERCONDUCTIVITY AND
MAGNETIC TRANSITIONS IN TMX ER1-X RH4B4.
BULL. AM. PHYS. SOC.,
V.23, P.322. 1978.
SMITH, JAMES L. (CMB-5)
ROOF, RAYMOND BRADLEY, JR. (CMB-5)
STRUEBING, VERNON O. (CMB-5)
- 40-33
REPLY TO A CRITICISM OF A PAPER
REGARDING MARTEMITTIC BEHAVIOR OF
ALPHA-PHASE URANIUM.
SCRIPTA MET., 1978.
V.12, P.959.
SANDENAW, THOMAS A. (CMB-8)
- 40-34
RESOLUTION FACTORS IN THE USE OF A
DOUBLE - PASS CMA FOR ISS.
J. VACUUM SCI. TECH.,
V.15, P.1769-70. 1978.
ELLIS, WALTON P. (CMB-8)
TAYLOR, THOMAS N. (CMB-8)
- 40-35
REVIEW OF SOME PAST AND
PRESENT POWDER METALLURGY
PROGRAMS AT THE LOS ALAMOS
SCIENTIFIC LABORATORY.
TIC,
1977. 38P. MN (LA-UR-77-719)
SHEINBERG, HASKELL (CMB-6)
- 40-36
SOME CORROSION TESTS OF MATERIALS
IN URANIUM HEXAFLUORIDE.
LASL,
1978. 19P. (LA-7327-MS)
FLORIN, ALAN E.
- 40-37
SOME MICROSTRUCTURES DEVELOPED IN 303
STAINLESS STEEL WHICH HAS BEEN SHOCK
LOADED TO THE MEGABAR RANGE.
TIC,
1977. 14P. MN (LA-UR-77-1875)
SANDSTROM, DONALD J. (CMB-6)
JONES, THOMAS I., JR. (CMB-6)
- 40-38
SPECIFIC HEAT OF A-15 AND BCC
MOLYBDENUM(0.4)TECHNETIUM(0.6).
PHYS. REV.,
V.17B, P.3534-40. 1978.
STEWART, GREGORY R. (CMB-3)
GIORGI, ANGELO L. (CMB-3)
- 40-39
SPECIFIC HEAT OF SINGLE PHASE
NIOBIUM(3) GERMANIUM.
SOLID STATE COMMUN.,
V.26, P.417-20. 1978.
STEWART, GREGORY R. (CMB-3)
NEWKIRK, LAWRENCE R. (CMB-3)
VALENCIA, FLAVIO A. (CMB-3)
- 40-40
SPECIFIC HEAT OF YTTRIUM/SUB 0.7/
THORIUM/SUB 0.3/CARBON/SUB 1.58/.
SOLID STATE COMMUN.,
V.27, P.413-6. 1978.
STEWART, GREGORY R. (CMB-3)
GIORGI, ANGELO L. (CMB-3)
KRUPKA, MILTON C. (CMB-3)

40-41

STATE - OF - THE - ART - ALUMINA
CERAMICS FOR ENERGY APPLICATIONS.
BULL. AM. CERAM. SOC.,
V.57, P.181-3. 1978.
HAUTH, WILLARD E. (CMB-6)
STODDARD, STEPHEN D. (CMB-6)

40-42

STATE OF THE ART - ALUMINA CERAMICS
FOR ENERGY APPLICATIONS.
LASL,
1978, 15P. (LA-7063-MS)
HAUTH, WILLARD E. (CMB-6)
STODDARD, STEPHEN D. (CMB-6)

40-43

STRUCTURE AND MECHANICAL PROPERTIES
OF ALUMINUM - ALUMINUM(X)OXYGEN(Y)
VACUUM DEPOSITED LAMINATES.
TIC,
1978, 26P. MN (LA-UR-78-884)
SPRINGER, ROBERT W. (CMB-6)
CATLETT, DUANE S. (CMB-6)

40-44

SUPERCONDUCTIVITY OF AMERICIUM.
SCIENCE,
V.200, P.535-7. 1978.
SMITH, JAMES L. (CMB-5)
HAIRE, RICHARD G.

40-45

THEORETICAL STUDY OF THE EFFECT
OF PRESSURE ON DIFFUSION IN
ALUMINUM.
J. NUCL. MATER.,
V.69 & 70, P.529-32. 1978.
STRAUB, GALEN K. (T-4)

40-46

UNUSUAL SUPERCONDUCTING BEHAVIOR
OF THE MOLYBDENUM - TECHNETIUM
SYSTEM.
PHYS. REV.,
V.17B, P.2160-2. 1978.
GIORCI, ANGELO L. (CMB-3)
MATTHIAS, E. T.

40-47

VARIABLE LOW - TEMPERATURE MARTENSITIC
BEHAVIOR OF ALPHA - PHASE URANIUM.
SCRIPTA MET.,
V.12, P.39-41. 1978.
SANDENAW, THOMAS A. (CMB-8)

40-48

WHISKERS AND MICROFIBERS.
ADDITIVES FOR PLASTICS.
R.B. SEYMOUR, ED. V.1, P.79-122.
ACADEMIC, 1978. (668.4/A227P)
MILEWSKI, JOHN V. (L-7)

41. MATHEMATICS AND COMPUTERS

- 41-1
'SENSING' THE ELLIPTICAL TORUS.
LASL,
1978. 6P. (LA-7187-MS)
CASHWELL, EDMOND D. (TD-6)
EVERETT, CORNELIUS J. (TD-6)
- 41-2
AD-2000 - A CASE STUDY OF THE
ANTARES LASER LENS SYSTEM.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.71. LASL, 1978. (LA-7417-C)
DIXON, THOMAS L. (WX-3)
- 41-3
APPLICATION OF ARTIFICIAL INTELLIGENCE
TECHNIQUES TO THE ACCELERATION OF
MONTE CARLO TRANSPORT CALCULATIONS.
LASL,
1978. 71P. (LA-7475-MS)
MAC DONALD, JAMES L. (T-1)
CASHWELL, EDMOND D. (TD-6)
- 41-4
APPLICATION OF COMPUTED TOMOGRAPHY,
BOUNDARY DETECTION, AND SHADED GRAPHICS
RECONSTRUCTION TO INDUSTRIAL INSPECTION.
MATER. EVAL.
V.36, NO.5, 6 PAGES. 1978.
KRUGER, RICHARD (M-8)
CANNON, THOMAS M. (M-8)
- 41-5
APPLICATION OF COMPUTERS AND
GRAPHICS TO PHYSICAL INSPECTION
PROBLEMS.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.72-3. LASL, 1978. (LA-7417-C)
PENTECOST, BENLEE A. (WX-3)
- 41-6
BAYESIAN MODEL FOR DETERMINING
THE OPTIMAL TEST STRESS FOR A
SINGLE TEST UNIT.
TECHNOMETRICS,
V.20, P.179-85. 1978.
MARTZ, HARRY F., JR.
WATERMAN, MICHAEL S. (Q-12)
- 41-7
CAD-CAM INTERACTIVE GRAPHICS SYSTEM
DESIGNED BY USERS.
TIC,
1978. 20P. MN (LA-UR-78-179)
LAUER, DONALD J. (WX-3)
- 41-8
CAMAC INTERFACE MODULE FOR
PACE ADC SYSTEM.
NUCL. INSTRUM. METHODS,
V.141, P.595-7. 1978.
DALTON, CHARLIE G. (MP-4)
MISCHKE, RICHARD E. (MP-4)
SCOTT, D.T.
- 41-9
CERTIFICATION REPORT ON 'EFFICIENT
FORTRAN SUBPROGRAMS FOR THE SOLUTION
OF ELLIPTIC PARTIAL DIFFERENTIAL
EQUATIONS' BY PAUL SWARZTRAUBER AND
ROLAND SWEET, NATIONAL CENTER FOR
ATMOSPHERIC RESEARCH, BOULDER, COLORADO.
LASL,
1978. 17P. (LA-7524-MS)
STEUERWALT, MICHAEL (C-3)
- 41-10
CHARACTERISTICS OF COMPUTED TOMOGRAPHIC
RECONSTRUCTION NOISE AND THEIR EFFECT ON
DETECTABILITY.
TIC,
1977. 4P. MN (LA-UR-77-2409)
HANSON, KENNETH M. (MP-3)
BOYD, D. P.
- 41-11
CLASS OF NEAR-PERFECT CODED
APERTURES.
TIC,
1977. 7P. MN (LA-UR-77-2369)
CANNON, THOMAS M. (M-8)
FENIMORE, EDWARD (P-4)
- 41-12
CODED APERTURE IMAGING WITH
UNIFORMLY REDUNDANT ARRAYS.
APPL. OPT.
V.17, P.337-47. 1978.
FENIMORE, EDWARD (P-4)
CANNON, THOMAS M. (M-8)
- 41-13
COMMENTS ON "NONSTATIONARY ASSUMPTIONS
FOR GAUSSIAN MODELS IN IMAGES."
IEEE TRANS. SYST. MAN CYBERN.,
V.SMC-8, P.579-82. 1978.
TRUSSELL, HENRY J. (M-8)
KRUGER, RICHARD (M-8)

41-14
COMMON FILE SYSTEM
SPECIFICATIONS,
SEPTEMBER 1977.

LASL,
1977. 24P. (LA-7065-MS)
ALSO PUBLISHED IN:
TIC,
1977. 28P. MN (LA-7065-MS)
BLOOD, PHILIP M. (C-4)
CHRISTMAN, RONALD D. (C-4)
COLLINS, MAURICE W. (C-4)
WILLBANKS, EMILY W. (C-4)

41-15
COMPARISON OF IMAGE
RESTORATION METHODS.

APPL. OPT.
V. 17, P. 3384-90. 1978.
CANNON, THOMAS M. (M-8)
TRUSSELL, HENRY J. (M-8)
HUNT, BOB R.

41-16
COMPUTER - GENERATED MOVIES AS
AN ANALYTIC TOOL.

TIC,
1978. 6P. MN (LA-UR-78-66)
ELLIOTT, RAYMOND L. (C-6)

41-17
COMPUTER ALGEBRA AND ITS APPLICATIONS.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P. 68. LASL, 1978. (LA-7417-C)
HOWELL, JO ANN (C-3)

41-18
COMPUTER APPLICATIONS ANNUAL REPORT
JULY 1, 1976-SEPTEMBER 30, 1977.

LASL,
1978. 24P. (LA-7213-PR)
SANDERS, WILLIAM MORT (H-6)
LESTER, JEAN V.
CAMPBELL, CALVIN L.
SMITH, WILLIAM ROSS, JR.
TAYLOR, PAUL M.
WEATHINGTON, CARL
PETERSEN, PAMELA M. (H-6)
PAYNE, ROBERT J. (H-6)

41-19
COMPUTER APPLICATIONS IN THE
ENGINEERING DESIGN OF THE W80
WARHEAD.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P. 8-9. LASL, 1978. (LA-7417-C)
LANGFORD, JOHN LEE (WX-3)

41-20
COMPUTER GRAPHICS - AN ESSENTIAL
COMMUNICATIONS TOOL.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P. 1. LASL, 1978. (LA-7417-C)
KRUGER, RICHARD (M-8)
CANNON, THOMAS M. (M-8)
LUNDY, ARVID S. (E-5)
MORRIS, ROGER A. (M-1)

41-21
COMPUTER GRAPHICS FOR EXTRACTING
INFORMATION FROM DATA.

TIC,
1978. 22P. MN (LA-UR-77-3004)
LOHRDING, RONALD K. (Q-12)
JOHNSON, MYRLE M. (Q-12)
WHITEMAN, DAVID E. (Q-12)

41-22
COMPUTER MODELING OF SCALE FORMATION
IN GEOTHERMAL FLUID HEAT EXCHANGE
EQUIPMENT.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P. 102-3. LASL, 1978. (LA-7417-C)
MERSON, THOMAS J. (WX-4)
FEBER, ROY C., JR. (CME-8)
PARKINSON, WILLIAM J. (WX-4)
BACA, G. A.

41-23
COMPUTER SCIENCE AND SERVICES
DIVISION ACTIVITIES AND PLANS.
LASL,
1978. 26P. (LA-7093)
DORR, FRED W. (C-DO)

41-24
COMPUTER USE FOR PREDICTING
TORNADO-INDUCED FLOW AND
RE-ENTRAINMENT IN NUCLEAR
FACILITIES.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P. 65. LASL, 1978. (LA-7417-C)
ANDRAE, RICHARD W. (WX-8)
DUERRE, KENNETH H. (WX-8)
GREGORY, WILLIAM S. (WX-8)
MARTIN, RICHARD A. (WX-8)

41-25
COMPUTING AT LASL IN THE 1940'S
AND 1950'S.
LASL,
1978. 26P. (LA-6943-H)
LAZARUS, ROGER B. (C-3)
VOORHEES, EDWARD A. (C-DO)
WELLS, MARK B. (T-7)
WORTON, WILLIAM J. (C-DO)

- 41-26
CONDITIONED RANDOM WALK WITH APPLICATIONS.
LASL,
1978. 18P. (LA-6990-MS)
BEYER, WILLIAM A. (T-7)
WATERMAN, MICHAEL S. (Q-12)
- 41-27
CONTROLLING A FAST SOLID-STATE CAMERA WITH A MICROCOMPUTER.
CUBE SYMPOSIUM. 1978. LOS ALAMOS, NM. ABST. J.J. RUMINER, COMP.
P.22. LASL, 1978. (LA-7417-C)
CRISCUOLO, ALPHONSE L. (E-5)
- 41-28
CRASHC - A TWO-DIMENSIONAL CODE TO COMPUTE THE RESPONSE OF AXISYMMETRIC SHIPPING CONTAINERS TO END-ON IMPACTS.
CUBE SYMPOSIUM. 1978. LOS ALAMOS, NM. ABST. J.J. RUMINER, COMP.
P.96-7. LASL, 1978. (LA-7417-C)
BUTLER, THOMAS A. (WX-8)
PAYNE, JAMES B. (WX-8)
ENDEBROCK, ELTON G. (WX-8)
- 41-29
CRAY-1 ERROR RECOVERY.
VECTOR AND PARALLEL PROCESSORS. 1978. WORKSHOP, LOS ALAMOS, NM. B.L. BUZBEE, COMP. PROC., P.11. LASL, 1978. (LA-7491-C)
MARUSAK, ALEX L. (C-3)
- 41-30
CRITICAL INDICES FROM PERTURBATION ANALYSIS OF THE CALLAN-SYMANZIK EQUATION.
PHYS. REV.,
V.17B, P.1365-74. 1978.
BAKER, GEORGE A., JR. (T-11)
NICKEL, BERNIE G.
MEIRON, DANIEL I.
- 41-31
CUBE (COMPUTER USE BY ENGINEERS) SYMPOSIUM ABSTRACTS. OCTOBER 4-6, 1978. LOS ALAMOS SCIENTIFIC LABORATORY LOS ALAMOS, NM.
LASL,
1978. 103P. (LA-7417-C)
RUMINER, JOHN J. (WX-3) COMP.
- 41-32
CUBE SYMPOSIUM PROGRAM, OCTOBER 4-6, 1978. LOS ALAMOS SCIENTIFIC LABORATORY.
LASL,
1978. 38P. (LASL-78-29)
LOS ALAMOS SCIENTIFIC LABORATORY
- 41-33
DAISY - A DATA ACQUISITION AND IO CONTROL SYSTEM.
CUBE SYMPOSIUM. 1978. LOS ALAMOS, NM. ABST. J.J. RUMINER, COMP.
P.59. LASL, 1978. (LA-7417-C)
DEMUTH, ANNE (AT-3)
ROBINSON, JOEL H. (E-5)
SCHNEIDER, J. DAVID (P-14)
BARNETT, WILLIAM (E-5)
- 41-34
DATA MANAGEMENT AND HANDLING FOR THE HYDROGEOCHEMICAL AND STREAM SEDIMENT RECONNAISSANCE PROGRAM AT THE LOS ALAMOS SCIENTIFIC LABORATORY.
LASL,
1978. 3P. (LA-7128-MS)
CHEADLE, JESSE M. (C-5)
- 41-35
DEBUGGING AIDS.
CUBE SYMPOSIUM. 1978. LOS ALAMOS, NM. ABST. J.J. RUMINER, COMP.
P.66. LASL, 1978. (LA-7417-C)
KAZEK, CHESTER S., JR. (C-5)
- 41-36
DEMOS USER'S GUIDE.
LASL,
1978. PAGED IN SECTIONS.
(LA-5525-M, VOL.7, REV.)
C-2 GROUP
- 41-37
DYNAMIC COMPUTER SIMULATION OF A TRITIUM SYSTEM TEST ASSEMBLY IN SUPPORT OF FUSION REACTORS.
CUBE SYMPOSIUM. 1978. LOS ALAMOS, NM. ABST. J.J. RUMINER, COMP.
P.91-2. LASL, 1978. (LA-7417-C)
GRUNDMANN, JACK G. (E-4)
- 41-38
ENERGY FLOW DIAGRAMS.
CUBE SYMPOSIUM. 1978. LOS ALAMOS, NM. ABST. J.J. RUMINER, COMP.
P.94. LASL, 1978. (LA-7417-C)
KOENIG, DANIEL R. (Q-13)
- 41-39
ESTIMATION OF PROBABILITY DENSITIES BY EMPIRICAL DENSITY FUNCTIONS.
J. OPTIMIZATION THEORY AND APPL.,
V.24, P.5-27. 1978.
WATERMAN, MICHAEL S. (Q-12)
WHITEMAN, DAVID E. (Q-12)

41-40
EXAMPLES OF MAXIMUM LIKELIHOOD SPATIAL
FILTERING.

TIC,
1977. 4P. MN (LA-UR-77-2521)
ALSO PUBLISHED IN:
CIRCUITS, SYSTEMS, AND
COMPUTERS. 1977. ASILOMAR
CONFERENCE. 11TH ANNUAL.
PACIFIC GROVE, CA. CONFERENCE
RECORD, P.246-8. S. CHAN, ED.
IEEE, 1978.
(621.3/C578S 11TH)
LAHART, MARTIN J. (M-8)

41-41
EXPERIENCES WITH FINITE ELEMENT
PROGRAMS ON THE CRAY-1 COMPUTER.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.50. LASL, 1978. (LA-7417-C)
OAKES, WILLIAM R., JR. (WX-3)
BROWNING, RICHARD V. (WX-3)

41-42
FAST FOURIER TRANSFORM BY
POLYNOMIAL EVALUATION.
J. APPL. MATH. PHYS.,
V.29, P.387-94. 1978.
KAHANER, DAVID K. (C-3)

41-43
FEASIBILITY STUDY FOR A POSTACCIDENT
HEAT REMOVAL FACILITY.
LASL,
1978. 38P. (LA-7133-MS)
BARTS, EDWARD W. (Q-7)
APPERSON, COURTNEY E., JR. (Q-13)
DUNWOODY, WADE E. (Q-13)
BENNETT, JOEL G. (Q-13)

41-44
FINITE ELEMENT LINEAR MODELS FOR
SYMMETRICALLY LOADED SHELLS OF
REVOLUTION.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.52. LASL, 1978. (LA-7417-C)
COOK, WILLIAM A. (WX-8)

41-45
FIRE CONTROL SYSTEM.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.79. LASL, 1978. (LA-7417-C)
LOVE, JOHN W. (E-5)

41-46
FLOATING POINT HARDWARE EMULATOR
FOR RSX-11D.

TIC,
1977. 5P. MN (LA-UR-77-2649)
KELLOGG, MARTIN P. (MP-1)
LONG, MARSHALL

41-47
FORECASTING METHODS FOR COMPUTER
TECHNOLOGY.

TIC,
1978. 18P. MN (LA-UR-78-1180)
WORLTON, WILLIAM J. (C-DO)

41-48
FORTRAN EXTENDED INTERACTIVE
DEBUGGING AID.
LASL,
1978. 11P. (LA-7467-MS)
KAZEK, CHESTER S., JR. (C-5)

41-49
FORTRAN 77.
COMMUN. ACM,
V.21, P.806-20. 1978.
BRAINERD, WALTER S.

41-50
GMAPS USER'S MANUAL.
LASL,
1978. 44P. (LA-6975-M)
WECKSUNG, MONA J. (Q-12)
WILEY, RICHARD A. (C-3)
TURNER, A. KEITH (Q-10)

41-51
HIGH - PERFORMANCE GRAPHICS
SYSTEM FOR THE CRAY-1.
VECTOR AND PARALLEL PROCESSORS.
1978. WORKSHOP, LOS ALAMOS, NM. B.L.
BUZBEE, COMP. PROC., P.10. LASL,
1978. (LA-7491-C)
EWALD, ROBERT H. (C-6)
MAAS, LYNN D. (C-6)

41-52
HIGH PERFORMANCE GRAPHICS SYSTEM
FOR THE CRAY-1.

TIC,
1978. 7P. MN (LA-UR-78-1449)
EWALD, ROBERT H. (C-6)
MAAS, LYNN D. (C-6)

41-53
HYDRODYNAMIC CALCULATION OF JET
FORMATION BY HEMISPHERICAL - SHAPED
CHARGES WITH TANTALUM LINERS.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.12. LASL, 1978. (LA-7417-C)
CORT, GEORGE E. (WX-4)
FU, JERRY H. (WX-4)

41-54
IMPLEMENTATION OF THE ACM/SIGGRAPH
PROPOSED GRAPHICS STANDARD IN A
MULTISYSTEM ENVIRONMENT.

TIC,
1978. 5P. MN (LA-UR-78-1427)
KELLNER, RICHARD G. (C-6)
REED, THEODORE N. (C-6)
SOLE, ANN (C-6)

- 41-55
INGEN. A GENERAL - PURPOSE MESH
GENERATOR FOR FINITE ELEMENT CODES.
LASL,
1978. 58P. AND
MICROFICHE. (LA-7735-MS)
COOK, WILLIAM A. (Q-13)
- 41-56
INTERACTIVE GRAPHICS ON THE CRAY-1
SUPERCOMPUTER.
TIC
1978. 19P. MN (LA-UR-78-309)
EWALD, ROBERT H. (C-6)
MAAS, LYNN D. (C-6)
- 41-57
INTRODUCTION TO Q.
LASL,
1978. 26P. (LA-7001-M)
KELLOGG, MARTIN P. (MP-1)
MINOR, MICHAEL M. (P-2)
SHLAER, SALLY
SPENCER, NANCY C.
THOMAS, RICHARD F., JR.
VAN DER BEKEN, HENRI
- 41-58
K-TIF, A TWO - FLUID COMPUTER PROGRAM
FOR DOWNCOMER FLOW DYNAMICS.
LASL,
1978. 130P. (LA-6994)
AMSDEN, ANTHONY A. (T-3)
HARLOW, FRANCIS H. (T-3)
- 41-59
LAPU2. A LASER PULSE PROPAGATION
CODE WITH DIFFRACTION.
LASL,
1978. 77P. AND MICROFICHE.
(LA-6955)
GOLDSTEIN, JOHN C. (L-6)
DICKMAN, DONALD O. (L-5)
- 41-60
LIBRARY OF PORTABLE MATHEMATICAL
FUNCTIONS.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.66. LASL, 1978. (LA-7417-C)
FULLERTON, L. WAYNE (C-3)
- 41-61
LINPACK WORKING NOTE NO.11.
SOME LINPACK TIMINGS ON THE CRAY-1.
LASL,
1978. 18P. (LA-7389-MS)
DONGARRA, J. J.
- 41-62
MAPPER.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.94-5. LASL, 1978. (LA-7417-C)
DAHL, DAVID A. (H-8)
- 41-63
MASS STORAGE AT LASL.
MASS STORAGE WORKSHOP. 1977.
BOULDER, CO. PROC. K. D. FRIEDMAN,
ED. P.95-112. NCAR, 1978.
(621.381/M414S)
COLLINS, MAURICE W. (C-4)
- 41-64
MAXIMUM ENTROPY ANALYSIS FOR SOME ONE-
AND TWO - DIMENSIONAL PROBLEMS.
TIC
1977. 15P. MN (LA-UR-77-2689)
BROLLEY, JOHN E., JR. (M-8)
LAZARUS, ROGER B. (C-3)
SUDDAM, BERGEN R. (T-7)
TRUSSELL, HENRY J. (M-8)
- 41-65
MAXIMUM LIKELIHOOD ESTIMATION
FOR THE BETA DISTRIBUTION.
J. STATIST. COMPUT. SIMUL.,
V.7, P.253-8. 1978.
BECKMAN, RICHARD J. (Q-12)
TIETJEN, GARY L. (Q-12)
- 41-66
METHOD FOR ACCELERATING THE
ITERATIVE SOLUTION OF A CLASS OF
FREDHOLM INTEGRAL EQUATIONS.
J. OPTIMIZATION THEORY AND
APPL., V.24, P.5-27. 1978.
ALLEN, RICHARD C. (C-DIV)
WING, G. MILTON (T-7)
- 41-67
MICROPROCESSOR - CONTROLLED CAMAC
DATA LINK MODULE.
LASL,
1978. 17P. AND APPEND.
(LA-7299-M)
POTTER, JERRY M. (MP-1)
- 41-68
MICROPROCESSOR CONTROLLED DUAL
PARAMETER ADC SYSTEM WITH A
CAMAC INTERFACE.
NUCL. INSTRUM. METHODS,
V.154, P.589-94. 1978.
PERRY, DENNIS G. (MP-1)
NICKELL, J. DONALD, JR. (E-5)
- 41-69
MICROPROCESSOR DATA - INPUT - CONTROL
UNIT FOR MARK CENTURY NUMERICAL
CONTOURING CONTROL.
TIC
1978. 10P. MN (LA-UR-77-2052)
ETHRIDGE, C. DWAYNE (E-5)
SEIFERT, WILLIAM M. (E-5)

- 41-70
MODELING THE MK 12A/W78
IMPULSE RESPONSE.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.6-7. LASL, 1978. (LA-7417-C)
SHAFFER, BARRY P. (WX-1)
- 41-71
MONTE CARLO ASPECTS OF CONTRIBUTIONS.
NUCL. SCI. ENG.
V.68, P.19-30. 1978.
DUBI, ARIE (T-1)
GERSTL, S. A. W. (T-1)
DUDZIAK, DONALD J. (T-1)
- 41-72
NEW PROBABILITY DISTRIBUTION WITH
APPLICATIONS IN MONTE CARLO STUDIES.
LASL.
1978. 10P. (LA-7095-MS)
JOHNSON, MARK E. (Q-12)
JOHNSON, MYRLE M. (Q-12)
- 41-73
NOTES ON LINEAR IMAGE
RESTORATION BY MAXIMIZING
THE A POSTERIORI PROBABILITY.
IEEE TRANS. ACOUST. SPEECH,
SIGNAL PROCESSING, V.ASSP-26,
P.174-6. 1978.
TRUSSELL, HENRY J. (M-8)
- 41-74
NUMERICAL SIMULATION OF THREE -
DIMENSIONAL FLOW PAST BLUFF BODIES.
COMPUT. METHODS APPL. MECH.
ENG., V.14, P.93-124. 1978.
HIRT, CYRIL W. JR. (T-3)
RAMSHAW, JOHN D. (T-3)
STEIN, LELAND R. (T-3)
- 41-75
ON A CLASS OF LINKED
DIAGRAMS, I. ENUMERATION.
J. COMBINATORIAL THEORY,
V.24, P.357-66. 1978.
STEIN, PAUL R. (T-7)
- 41-76
ON A CLASS OF LINKED DIAGRAMS.
II. ASYMPTOTICS.
DISCRETE MATH.,
V.21, P.309-18. 1978.
STEIN, PAUL R. (T-7)
EVERETT, CORNELIUS J. (T-6)
- 41-77
ON A QUADRATIC RECURRENCE RULE
OF FALTING TYPE.
J. COMBINATORICS INF. SYST. SCI.,
V.3, P.1-10. 1978.
STEIN, PAUL R. (T-7)
EVERETT, CORNELIUS J. (TD-6)
- 41-78
ON BLOCK RELAXATION TECHNIQUES.
WISCONSIN U., MADISON.
MATHEMATICS RES. CENTER.
TECH. SUMMARY REPT. NO.1860.
1978. (MRC-TSR-1860)
BOLEY, D. LUCIUS
BUZBEE, BILLY L. (C-3)
PARTER, S. V.
- 41-79
ON CHERNOFF FACES.
TIC,
1978. 30P. MN (LA-UR-78-721)
BRUCKNER, LAWRENCE A. (Q-12)
- 41-80
ON THE LATTICE OF FACES OF THE
N-CUBE.
BULL. AM. MATH. SOC.,
V.84, P.284-6. 1978.
METROPOLIS, NICHOLAS C. (T-7)
ROTA, GIAN-CARLO
- 41-81
ON THE STRUCTURE OF COMPUTER
CODES FOR SOLVING PARTIAL
DIFFERENTIAL EQUATIONS.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.30. LASL, 1978. (LA-7417-C)
HYMAN, JAMES M. (T-7)
- 41-82
OVERVIEW OF CTR-DIVISION CONTROL
AND DATA ACQUISITION COMPUTER USAGE AT
THE LOS ALAMOS SCIENTIFIC LABORATORY.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.58. LASL, 1978. (LA-7417-C)
CHANDLER, GEORGE I. (CTR-8)
LILLBERG, JOHN W. (CTR-8)
WILKINS, RONALD W. (CTR-8)
- 41-83
PARTITIONS INTO CHAINS OF A CLASS
OF PARTIALLY ORDERED SETS.
PROC. AM. MATH. SOC.,
V.71, P.193-6. 1978.
METROPOLIS, NICHOLAS C. (T-7)
ROTA, GIAN-CARLO
STREHL, VOLKER
WHITE, NEIL
- 41-84
PDP 11/03 BASED, DUAL PARAMETER
DATA ACQUISITION SYSTEM.
DIGITAL EQUIP. COMPUT.
USERS SOC. PROC.
V.4, P.591-5. 1977.
ALSO PUBLISHED IN:
TIC,
1977. 6P. MN (LA-UR-77-2642)
GIESLER, GREGG CARL (CNC-11)
PERRY, DENNIS G. (MP-1)

- 41-85
PEBBLE - A THERMAL - HYDRAULIC
ANALYSIS CODE FOR AXISYMMETRIC PEBBLE
BED NUCLEAR REACTOR CORES.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.99-100. LASL, 1978. (LA-7417-C)
STROH, KENNETH R. (Q-13)
- 41-86
PERM. CORRECTIONS TO THE
K-FIX CODE.
LASL,
1978. 4P. (LA-NUREG-6623, SUPPL.)
RIVARD, WILLIAM C. (T-3),
TORREY, MARTIN D. (T-3)
- 41-87
PIM-2. PROGRAMMER'S INFORMATION
MANUAL. GUIDE TO THE PROGRAM
LIBRARY AND ABSTRACTS.
LASL,
1978. LOOSELEAF. (LA-5525-M, VOL.2)
SOFTWARE DOCUMENTATION GROUP
- 41-88
PIM-3. PROGRAMMER'S INFORMATION
MANUAL. THE LASL FORTRAN
EXTENDED REFERENCE MANUAL.
LASL,
1978. LOOSELEAF. (LA-5525-M, VOL.3)
SOFTWARE DOCUMENTATION GROUP
- 41-89
PIM-4. PROGRAMMER'S INFORMATION
MANUAL. LASL GUIDE TO NOS.
LASL,
1978. LOOSELEAF. (LA-5525-M, VOL.4)
SOFTWARE DOCUMENTATION GROUP
- 41-90
PLI FORTRAN PROGRAMMING FOR
URANIUM DATA BASES AT LASL.
TIC,
1977. 12P. MN (LA-UR-77-2023)
CHEADLE, JESSE M. (Q-12)
- 41-91
PORTABLE GRAPHICS SYSTEM.
TIC,
1978. 17P. MN (LA-UR-78-384)
KELLNER, RICHARD G. (C-6)
REED, THEODORE N. (C-6)
SOLEM, ANN (C-6)
- 41-92
PRELIMINARY CODE DEVELOPMENT FOR
SEISMIC SIGNAL ANALYSIS RELATED TO
TEST BAN TREATY QUESTIONS.
TIC,
1977. 25P. MN (LA-UR-77-2672)
BROLLEY, JOHN E., JR. (M-8)
- 41-93
PREPROCESSING OF PHERMEX FLASH
RADIOGRAPHIC IMAGES.
LASL,
1978. 18P. (LA-7105-MS)
BROLLEY, JOHN E., JR. (M-8)
- 41-94
PREPROCESSING OF PHERMEX FLASH
RADIOGRAPHIC IMAGES WITH HAAR
AND ADAPTIVE FILTERING.
LASL,
1978. 6P. (LA-7561-MS)
BROLLEY, JOHN E., JR. (M-8)
- 41-95
PREPROCESSING OF SEISMIC SIGNALS
FOR PATTERN RECOGNITION.
TIC,
1978. 19P. MN (LA-UR-78-1507)
BROLLEY, JOHN E., JR. (M-8)
- 41-96
PREPROCESSING OF SEISMIC SIGNALS BY
HAAR DECOMPOSITION AND ADAPTIVE
FILTERING FOR PATTERN RECOGNITION.
LASL,
1978. 15P (LA-7541-MS)
BROLLEY, JOHN E., JR. (M-8)
- 41-97
PROCEEDINGS OF THE 1978 LASL WORKSHOP
ON VECTOR AND PARALLEL PROCESSORS,
HELD AT LOS ALAMOS SCIENTIFIC
LABORATORY, LOS ALAMOS, NEW MEXICO,
SEPTEMBER 20-22, 1978.
LASL,
1978. 251P. (LA-7491-C)
BUZEE, BILLY L. (C-3) COMP.
MORRISON, JOHN F. (C-11) COMP.
- 41-98
PRODUCT FORMULAS AND NICHOLSON
TYPE INTEGRALS FOR JACOBI
FUNCTIONS. I. SUMMARY OF RESULTS.
SIAM J. MATH. ANALYSIS,
V.9, P.76-86. 1978.
DURAND, LOYAL (T-DO)
- 41-99
PROGRAM NICOLET TO INTEGRATE ENERGY
LOSS IN SUPERCONDUCTING COILS.
LASL,
1978. 6P. (LA-7428-MS)
VOGEL, HERBERT F. (CTR-9)
- 41-100
PROSPECTS FOR NUMERICAL SIMULATION
OF BLUFF BODY AERODYNAMICS.
AERODYNAMIC DRAG MECHANISMS OF
BLUFF BODIES AND ROAD VEHICLES,
G. SOVRAN ET AL., EDS.
P.313-55. PLENUM, 1978.
HIRT, CYRIL W., JR. (T-3)
RAMSHAW, JOHN D. (T-3)

41-101
QUANTITATIVE UNIVERSALITY FOR A
CLASS OF NONLINEAR TRANSFORMATIONS.
J. STATIST. PHYS.
V.19, P.25-32. 1978.
FEIGENBAUM, MITCHELL J. (T-DOT)

41-102
REZONING - AN ADAPTIVE REFINEMENT
TECHNIQUE.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.51-2. LASL, 1978. (LA-7417-C)
GUERRA, FRANCISCO M. (WX-3)

41-103
SCIENTIFIC CALCULATING SYSTEM
WITH A NUMBER - ORIENTED
MICROPROCESSOR SEQUENCED BY A
SINGLE COMPONENT MICROCOMPUTER.
TIC,
1977. 5P. MN (LA-UR-77-2383)
ALSO PUBLISHED IN:
IEEE TRANS NUCL. SCI.
V.NS-25, P.506-9. 1978.
ETHRIDGE, C. DWAYNE (E-5)
WORTH, GARY M. (Q-2)

41-104
SECSIM - A COMPUTER SECURITY
SIMULATION CODE.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.41-2. LASL, 1978. (LA-7417-C)
SCHOLONKA, EDWARD P. (Q-4)

41-105
SECTIONED METHODS FOR
IMAGE RESTORATION.
IEEE TRANS. ACOUST. SPEECH,
SIGNAL PROCESSING, V.ASSP-26,
P.157-64. 1978.
TRUSSELL, HENRY J. (M-8)
HUNT, BOB R.

41-106
SECTIONING IN IMAGE PROCESSING.
TIC,
1977. 7P. MN (LA-UR-77-2590)
TRUSSELL, HENRY J. (M-8)

41-107
SIGNIFICANCE ARITHMETIC.
APPLICATION TO A PARTIAL
DIFFERENTIAL EQUATION.
IEEE TRANS. COMPUT.
V.C-26, P.639-42. 1977.
ALSO PUBLISHED IN:
COMPUTER ARITHMETIC. 1975.
SYMPOSIUM. 3RD, SOUTHERN
METHODIST UNIV. DALLAS, TX.
PROC. P.64-6. IEEE, 1975.
(513/C738A 1975)
BIVINS, ROBERT L. (C-3)
METROPOLIS, NICHOLAS C. (T-7)

41-108
SIMULATION MODEL FOR BOOM TOWN
HOUSING.
LASL,
1978. 68P. (LA-7324-MS)
RINK, RAYMOND (Q-12)
FORD, ANDREW (S-2)

41-109
SOME CONDITIONS FOR WEAK
CONVERGENCE TO EQUILIBRIUM OF
NONLINEAR CONTRACTION SEMIGROUPS.
J. DIFFERENT. EQUA.,
V.29, P.269-77. 1978.
PIMBLEY, GEORGE H. (T-DOT)
NICHOLS, BASIL (T-7)

41-110
SOME LINPACK TIMINGS ON THE
CRAY-1.
VECTOR AND PARALLEL PROCESSORS.
1978. WORKSHOP, LOS ALAMOS, NM. B.L.
BUZBEE, COMP. PROC., P.58-75. LASL,
1978. (LA-7491-C)
DONGARRA, JACK J.

41-111
SOME TECHNIQUES FOR DIGITAL PROCESSING
DISPLAY AND INTERPRETATION OF RATIO
IMAGES IN MULTISPECTRAL REMOTE SENSING
OPTICAL COMPUTING CONFERENCE.
1977. INTERNATIONAL. SAN DIEGO,
CA. PROC. APPLICATIONS OF DIGITAL
IMAGE PROCESSING. A.G. TESCHER,
ED. P.47-54. SPIE, 1977.
(621.3/1610 1977)
ALSO PUBLISHED IN:
TIC,
1977. 9P. MN (LA-UR-77-1877)
WECKSUNG, GEORGE W. (M-8)
BREEDLOVE, JAMES R. (M-8)

41-112
SOME UNIQUE HEAT TRANSFER SOLUTIONS
IN WEAPON SYSTEM DESIGNS.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.20. LASL, 1978. (LA-7417-C)
JAEGER, DWIGHT L. (WX-3)

41-113
SPECTRAL ESTIMATION ACCURACY WITH
ARBITRARY TRUNCATING FUNCTIONS.
TIC,
1977. 11P. MN (LA-UR-77-2671)
LAHART, M. J. (M-8)

41-114
STANDARD FILE TRANSPORT PROTOCOL.
LASL,
1978. 25P. (LA-7388-MS)
CHORN, GRANVILLE E. (C-4)
CHRISTMAN, RONALD D. (C-4)
KLINGNER, C. THOMAS (C-4)

- 41-115
STUDY OF DATA COMMUNICATIONS AT THE
LOS ALAMOS SCIENTIFIC LABORATORY,
1977.
LASL,
1978. 22P. (LA-7361-MS)
LEWIS, RICHARD E. (C-DO-R)
GORE, RAYMOND A. (E-DO)
- 41-116
S2D - THE SESAME EQUATION OF STATE
DISPLAY CODE.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.12. LASL, 1978. (LA-7417-C)
JOHNSON, JAMES D. (T-4)
- 41-117
TERMS OF AN ARITHMETIC SEQUENCE
PRIME TO M.
LASL,
1978. 7P. (LA-7353-MS)
EVERETT, CORNELIUS J. (TD-6)
- 41-118
THERMAL ANALYSIS OF A ROCKY FLATS
EXPERIMENT.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.21. LASL, 1978. (LA-7417-C)
VIGIL, ARMANDO S. (WX-3)
- 41-119
TIME - RESOLVED PHERMEX IMAGE
RESTORATIONS CONSTRAINED WITH AN
ADDITIONAL MULTIPLY - EXPOSED IMAGE.
LASL,
1978. 17P. (LA-7330-MS)
KRUGER, RICHARD (M-8)
BREEDLOVE, JAMES R. (M-8)
TRUSSELL, HENRY J. (M-8)
- 41-120
TIME EVOLUTION OF ALMOST PERIODIC
SOLUTIONS OF THE KDV EQUATION.
ROCKY MT. J. MATH.,
V.8, P.95-104. 1978.
HYMAN, JAMES M. (T-7)
- 41-121
TRANSFORMATIONS OF THE MULTIVARIATE
NORMAL DISTRIBUTION WITH
APPLICATIONS TO SIMULATION.
TIC,
1978. 4P. MN (LA-UR-77-2595)
JOHNSON, MARK E. (Q-12)
RAMBERG, JOHN
- 41-122
UNDERSTANDING MASS STORAGE.
MASS STORAGE WORKSHOP. 1977.
BOULDER, CO. PROC. K. D. FRIEDMAN,
ED. P.15-34. NCAR, 1978.
(621.381/M414S)
WORTON, WILLIAM J. (C-DO)
- 41-123
UNIFIED TIME DOMAIN ELECTROMAGNETIC
AND CIRCUIT ANALYSIS CODE.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.57. LASL, 1978. (LA-7417-C)
LANDT, JEREMY A. (E-DOR)
- 41-124
UNIFORMLY REDUNDANT ARRAYS.
TIC,
1977. 15P. MN (LA-UR-77-2683)
FENIMORE, EDWARD (P-4)
CANNON, THOMAS M. (M-8)
- 41-125
USER'S MANUAL FOR SIN - A ONE-
DIMENSIONAL HYDRODYNAMIC CODE FOR
PROBLEMS THAT INCLUDE CHEMICAL
REACTIONS, ELASTIC - PLASTIC FLOW,
SPALLING, PHASE TRANSITIONS, MELTING,
FOREST FIRE, DETONATION BUILD-UP, AND
SESAME TABULAR EQUATION OF STATE.
LASL,
1978. 127P. (LA-7264-M)
MADER, CHARLES L. (T-14)
SHAW, MILTON S. (T-14)
- 41-126
USING A MICROCOMPUTER SYSTEM TO
CONTROL DATA COLLECTION INSTRUMENTATION
OF A LASER DAMAGE EXPERIMENT.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.60-1. LASL, 1978. (LA-7417-C)
KUCKERTZ, THOMAS H. (E-5)
GILL, DENNIS H. (AP-2)
- 41-127
USING SYSTEM 2000 WITH PROPOSED ANSI
STANDARDS FOR DATA EXCHANGE.
TIC,
1977. 27P. MN (LA-UR-77-2739)
BENKOVITZ, CARMEN M.
WILEY, RICHARD A. (C-3)
- 41-128
VARIATIONAL DERIVATION OF A
CONTRIBUTION MONTE CARLO TECHNIQUE.
TRANS. AM. NUCL. SOC.,
V.30, P.587-8. 1978.
GERSTL, S. A. W. (T-1)
DUBI, ARIE (T-1)
PONRANING, GERALD C.
- 41-129
VECTORIZATION FROM A LARGE CODE
POINT OF VIEW.
VECTOR AND PARALLEL PROCESSORS.
1978. WORKSHOP. LOS ALAMOS, NM. B.L.
BUZBEE, COMP. PROC., P.16-40. LASL,
1978. (LA-7491-C)
ASPREY, MARGARET K. (Q-7)

41-130
VECTORIZATION OF BLOCK RELAXATION
TECHNIQUES - SOME NUMERICAL
EXPERIMENTS.
VECTOR AND PARALLEL PROCESSORS.
1978. WORKSHOP, LOS ALAMOS, NM. B.L.
BUZBEE, COMP. PROC., P.166-73. LASL,
1978. (LA-7491-C)
BOLEY, D. LUCIUS

41-131
VECTORIZED PIC SIMULATION CODES
ON THE CRAY-1.
VECTOR AND PARALLEL PROCESSORS.
1978. WORKSHOP, LOS ALAMOS, NM. B.L.
BUZBEE, COMP. PROC., P.41. LASL,
1978. (LA-7491-C)
FORSLUND, DAVID W. (L-6)
NIELSON, CLAIR W. (L-6)

41-132
VISUAL AIDS BY COMPUTER GRAPHICS.
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.4. LASL, 1978. (LA-7417-C)
EWALD, ROBERT H. (C-6)

43. NUCLEAR PROPULSION SYSTEMS AND AEROSPACE SAFETY

43-1
NUCLEAR REACTORS FOR SPACE ELECTRIC
POWER.

LASL,
1978. 36P. (LA-7290-SR)
BUDEN, DAVID (Q-DO)

43-2
STATUS REPORT ON NUCLEAR
REACTORS FOR SPACE ELECTRIC POWER.

TIC
1978. 14P. MN (LA-UR-78-1306)
BUDEN, DAVID (Q-DO)

44. NUCLEAR RAW MATERIALS

44-1

GEOSTATISTICS PROJECT OF THE
NATIONAL URANIUM RESOURCE EVALUATION
PROGRAM, JANUARY - MARCH 1978.

LASL,

1978. 3P. (LA-7296-PR)

ALSO PUBLISHED IN:

TIC,

1978. 4P. MN (LA-7296-PR)

BEMENT, THOMAS R. (Q-12)

CAMPBELL, KATHERINE (Q-12)

WECKSUNG, GEORGE W. (M-8)

MC KAY, MICHAEL D. (Q-12)

ZEIGLER, ROYAL K. (Q-12)

44-2

GEOSTATISTICS PROJECT OF THE
NATIONAL URANIUM RESOURCE
EVALUATION PROGRAM, APRIL - JUNE
1978.

LASL,

1978. 11P. (LA-7463-PR)

CAMPBELL, KATHERINE (Q-12)

WECKSUNG, GEORGE W. (M-8)

WHITEMAN, DAVID E. (S-1)

BEMENT, THOMAS R. (S-1)

44-3

GEOSTATISTICS PROJECT OF THE NATIONAL
URANIUM RESOURCE EVALUATION PROGRAM,
OCTOBER-DECEMBER 1977.

LASL,

1978. 4P. (LA-7168-PR)

BEMENT, THOMAS R. (Q-12)

MC KAY, MICHAEL D. (Q-12)

WECKSUNG, GEORGE W. (M-8)

44-4

NDA TECHNOLOGY FOR URANIUM RESOURCE
EVALUATION, JULY 1-SEPTEMBER 30, 1977.

LASL,

1978. 23P. (LA-7139-PR)

EVANS, MICHAEL L. (Q-1) COMP.

44-5

NDA TECHNOLOGY FOR URANIUM RESOURCE
EVALUATION OCTOBER 1-DECEMBER 31,

1977.

LASL,

1978. 10P. (LA-7251-PR)

MENLOVE, HOWARD O. (Q-1) COMP.

44-6

NON-DESTRUCTIVE FIELD MEASUREMENT
OF THE RATIO URANIUM -235/
URANIUM -238 IN DEPLETED TO
MODERATELY ENRICHED URANIUM.

TIC,

1977. 10P. MN (LA-UR-77-2850)

BALAGNA, JOHN P., JR. (CNC-11)

COWAN, GEORGE A. (CNC-DO)

45. NUCLEAR WASTE MANAGEMENT

45-1
CHARACTERISTICS OF WASTES AND
SOILS WHICH AFFECT TRANSPORT OF
RADIONUCLIDES THROUGH THE SOIL AND
THEIR RELATIONSHIP TO WASTE MANAGEMENT -
JULY 1, 1976 - SEPTEMBER 30, 1977.

LASL,
1978. 52P. (LA-7311-PR)
FOWLER, ERIC B. (H-12)
POLZER, WILFRED L. (H-12)
ESSINGTON, EDWARD H. (H-12)

45-2
DISPOSAL OF HAZARDOUS WASTES.
ENVIRON. SCI. TECHNOL.,
V.12, P.1132-6. 1978.
BARNHART, BENJAMIN J. (H-9)

45-3
EXPERIMENTAL STUDIES OF THE
DEGRADATION OF RAD-WASTES FOR THE
SANDIA LABORATORIES WASTE ISOLATION
PILOT PROJECT (WIPP), OCTOBER 1 -
DECEMBER 31, 1977.

LASL,
1978. 5P. (LA-7246-PR)
ZERWEKH, AL (CMB-1)
KOSIEWICZ, STANLEY (CMB-1)

45-4
EXPERIMENTAL STUDIES OF THE
DEGRADATION OF RAD-WASTES FOR THE
SANDIA LABORATORIES WASTE ISOLATION
PILOT PROJECT (WIPP), JANUARY 1 -
MARCH 31, 1978.

LASL,
1978. 9P. (LA-7259-PR)
ZERWEKH, AL (CMB-1)
KOSIEWICZ, STANLEY (CMB-1)

45-5
EXPERIMENTAL STUDIES OF THE
DEGRADATION OF RAD-WASTES FOR THE
SANDIA LABORATORIES WASTE ISOLATION
PILOT PROJECT (WIPP), APRIL 1 -
JUNE 30, 1978.

LASL,
1978. 5P. (LA-7478-PR)
ZERWEKH, AL (CMB-1)
KOSIEWICZ, STANLEY (CMB-1)
BARRACLOUGH, BRUCE (CMB-1)

45-6
GEOLOGIC DESCRIPTION OF CORES
FROM HOLES P-3 MH-1 THROUGH P-3 MH-5,
AREA G, TECHNICAL AREA 54.

LASL,
1978. 13P. (LA-7308-MS)
PURTYMUN, WILLIAM D. (H-8)
WHEELER, MERLIN L. (H-8)
ROGERS, MARGARET ANNE (H-8)

45-7
LASL MODELS FOR ENVIRONMENTAL
TRANSPORT OF RADIONUCLIDES IN
FORESTS.

TIC,
1978. 9P. MN (LA-UR-78-1097)
GALLEGOS, ANTHONY F. (H-12)
SMITH, W. JOHN, II (H-12)
JOHNSON, LAMAR J. (H-DO)

45-8
LOW - LEVEL SOLID RADIOACTIVE WASTE
DISPOSAL.

LASL
MINI-REVIEW. 1978. 4P.
(LASL-78-5)
WARREN, JOHN LAWRENCE (H-7)

45-9
MOVEMENT OF FLUIDS AND PLUTONIUM
FROM SHAFTS AT LOS ALAMOS, NEW
MEXICO.

LASL,
1978. 6P. (LA-7379-MS)
PURTYMUN, WILLIAM D. (H-8)
GARDE, RAYMOND (H-1)
PETERS, RICHARD J. (H-8)

45-10
NUCLEAR WASTE MANAGEMENT TECHNOLOGY
DEVELOPMENT PROGRAM, JANUARY -
DECEMBER 1977.

LASL,
1978. 29P. (LA-07501-PR)
JOHNSON, LAMAR J. (H-DO) COMP.
LEWIS, H. MAXINE (H-12) COMP.

45-11
PROCESSING AND DISPOSAL OF
RADIOACTIVE WASTE BY THE WASTE
MANAGEMENT GROUP AT LASL.

LASL
MINI-REVIEW. 1978. 4P. (LASL-78-83)
KEENAN, THOMAS K. (H-7)

45-12
STRATIGRAPHY OF THE BANDELIER TUFF
IN THE PAJARITO PLATEAU.
APPLICATIONS TO WASTE MANAGEMENT.

LASL,
1978. 57P. (LA-7225-MS)
CROWE, BRUCE M. (G-6)
LINN, GEORGE W. (G-6)
HEIKEN, GRANT (G-6)
BEVIER, MARY LOU

45-13
WASTE MANAGEMENT CAPABILITIES FOR ALPHA
BEARING WASTES AT THE LOS ALAMOS
SCIENTIFIC LABORATORY.

TIC,
1977. 12P. MN (LA-UR-77-2686)
KEENAN, THOMAS K. (H-7)

45-14
WASTE MANAGEMENT PROGRAMS AND
CAPABILITIES WITHIN THE LOS ALAMOS
SCIENTIFIC LABORATORY.

LASL,
1978. 57P. (LA-7548-MS)
ERDAL, BRUCE R. (CNC-11)
HOFFMAN, DARLEANE C. (CNC-11)
LUTH, W. C.
GRAVES, GLEN A. (DIR OFF)
JENSEN, REED J. (AP-DO)
ZERWEKH, AL (CME-1)
ERDAL, BRUCE R. (CNC-11)
GERMAIN, LAWRENCE S. (J-DOT)
JOHNSON, LAMAR J. (H-DO)
KILLIAN, BARBARA GERMAIN (J-9)
WALTON, RODDY B. (Q-1)
FREIWALD, JOYCE G. (H-8)
MILLER, WARREN F., JR. (T-1)

46. OIL SHALES AND TAR SANDS

46-1
CHARACTERIZATION OF DEVONIAN SHALES
USING LASER PYROLYSIS - GAS
CHROMATOGRAPHY.

TIC,
1977. 11P. MN (LA-UR-77-2106)
VANDERBORGH, NICHOLAS E. (CMB-8)
WILLIAMS, JOEL M. (CMB-8)
WEWERKA, EUGENE M. (CMB-8)
BERTINO, JAMES P. (CMB-8)

46-2
DATA - BASE MANAGEMENT SYSTEM FOR
SPATIAL DISPLAY OF FEDERAL OFFSHORE
OIL AND GAS LEASE DATA.

TIC,
1978. 12P. MN (LA-UR-77-2779)
SIBERT, JOHN L. (C-6)
PHILLIPS, RICHARD
LOHRENZ, JOHN

46-3
EFFECTS OF VARIOUS PYROLYSIS
CONDITIONS ON THE RELEASE OF
PRODUCTS FROM GREEN RIVER OIL
SHALE.

LASL,
1978. 99P. THESIS, UNM,
ALBUQUERQUE, NM, 1977.
(LA-7118-T)
FRITZ, GEORGIA T. (WX-2)

46-4
EXPLOSIVELY PRODUCED FRACTURE
OF OIL SHALE, JANUARY - MARCH 1978.

LASL,
1978. 14P. (LA-7338-PR)
CARTER, WILLIAM J. (G-7) COMP.

46-5
EXPLOSIVELY PRODUCED FRACTURE
OF OIL SHALE, APRIL - JUNE 1978.

LASL,
1978. 26P. (LA-7438-PR)
CARTER, WILLIAM J. (G-7) COMP.

46-6
EXPLOSIVELY PRODUCED FRACTURE OF
OIL SHALE, OCTOBER - DECEMBER 1977.

LASL,
1978. 45P. (LA-7164-PR)
CARTER, WILLIAM J. (G-7) COMP.

46-7
EXPLOSIVELY PRODUCED FRACTURE OF OIL
SHALE APRIL - JUNE 1977.

LASL,
1978. 47P. (LA-6901-PR)
CARTER, WILLIAM J. (G-7) COMP.

46-8
EXPLOSIVELY PRODUCED FRACTURE OF OIL
SHALE, JULY - SEPTEMBER 1977.

LASL,
1978. 33P. (LA-7031-PR)
CARTER, WILLIAM J. (G-7) COMP.

46-9
EXPLOSIVELY PRODUCED FRACTURE OF OIL
SHALE, APRIL, 1977 - MARCH, 1978.

LASL,
1978. 108P. (LA-7357-PR)
CARTER, WILLIAM J. (G-7) COMP.

46-10
MAPPING OFFSHORE OIL LEASES.

TIC,
1978. 8P. MN (LA-UR-77-2892)
SIBERT, JOHN L. (C-6)

46-11
PERMEABILITY ENHANCEMENT USING
EXPLOSIVE TECHNIQUES.
ENERGY CONVERSION ENGINEERING
CONFERENCE. 1978 (AUG.) 13TH
INTER-SOCIETY, SAN DIEGO, CA. PROC.,
V.1, P.350-4. SAE, 1978.
ALSO PUBLISHED IN:

TIC,
1978. 6P. MN (LA-UR-78-1418)
CARTER, WILLIAM J. (G-7)

47. PARTICLE ACCELERATORS AND HIGH VOLTAGE MACHINES

47-1
ANNOTATED BIBLIOGRAPHY OF LAMPF
RESEARCH AND DEVELOPMENT.

LASL,
1978. 261P. (LA-7431-MS)
JAMESON, ROBERT A. (MP-9)
ROYBAL, ELIZA U. (MP-9)

47-2
ANNOTATED BIBLIOGRAPHY ON
HIGH - INTENSITY LINEAR
ACCELERATORS.

LASL,
1978. 290P. (LA-7124-MS)
JAMESON, ROBERT A. (MP-9)
ROYBAL, ELIZA U. (MP-9)

47-3
BEAM PROFILE MONITOR FOR SECONDARY
BEAMS.

NUCL. INSTRUM. METHODS,
V.156, P.365-7. 1978.
KRAUSSE, GEORGE J., III (MP-4)
GRAM, PETER A. M. (MP-4)

47-4
BEAM TOMOGRAPHY OR ART IN
ACCELERATOR PHYSICS.

LASL,
1978. 21P. (LA-7498-MS)
FRASER, JOHN S.

47-5
BEAM VOLTAGE AND CURRENT
PARAMETER STUDY FOR THE
AUTORESOMANT ACCELERATION
PROOF-OF-PRINCIPLE EXPERIMENT.

LASL,
1978. 8P. (LA-7568-MS)
GODFREY, BRENDAN B. (T-15)
FAEHL, R. J. (T-15)

47-6
COLLECTIVE ION ACCELERATION
THROUGH TEMPORAL MODULATION OF
RELATIVISTIC ELECTRON BEAM ENERGY.

PHYS. REV. LETT.,
V.40, P.1137-40. 1978.
FAEHL, R. J. (T-15)
GODFREY, BRENDAN B. (T-15)

47-7
COMPACT 250 KV INJECTOR SYSTEM FOR
PIGMI.

BULL. AM. PHYS. SOC.,
V.23, P.1064. 1978.
HAMM, ROBERT W. (MP-12)
STEVENS, RALPH R., JR. (MP-12)
MUELLER, D. W. (MP-12)
LEDERER, H. M. (MP-12)

47-8
DESIGN STUDY FOR ACHROMATIC AND
ISOCHRONOUS 180 DEGREE BENDING
SYSTEMS FOR PIGMI.

LASL,
1978. 20P. (LA-7406-MS)
INOUE, H.
SWENSON, DONALD A. (AT-1)

47-9
DEVELOPMENT OF SAMARIUM - COBALT
QUADRUPOLE LENSES FOR PARTICLE
ACCELERATOR APPLICATIONS.

LASL,
1978. 14P. (LA-7232-MS)
SAITO, NORIO
BUSH, EDGAR D., JR. (MP-8)
SWENSON, DONALD A. (AT-1)

47-10
EXPERIENCE WITH THE LAMPF MINERAL -
INSULATED MAGNETS.

TIC,
1977. 7P. MN (LA-UR-77-1789)
ALSO PUBLISHED IN:
MAGNET TECHNOLOGY.
1977 (AUG.29-SEPT.2). INTERNATIONAL
CONFERENCE. 6TH, BRATISLAVA,
CZECHOSLOVAKIA. PROC., P.551-6.
ALFA BRATISLAVA, 1978.
HARVEY, ALEXANDER (MP-13)

47-11
EXPERIMENTAL PROGRAM TO VALIDATE
ANALYSES OF ACCELERATOR BREEDER
CONCEPTS.

TIC,
1977. 32P. MN (LA-UR-77-2552)
TALBERT, W. L., JR. (Q-14)
RUSSELL, GARY J. (P-11)
MALENFANT, RICHARD E. (Q-DO)

47-12
LAMPF (1975-1976) RESEARCH
HIGHLIGHTS AT THE CLINTON P.
ANDERSON MESON PHYSICS FACILITY.

LASL,
1978. 34P. (LA-7201-MS)
BOWMAN, J. DAVID (MP-4) COMP.
BURMAN, ROBERT L. (MP-4) COMP.

47-13
LAMPF 201.25-MHZ LINAC FIELD
DISTRIBUTION.

LASL,
1978. 19P. (LA-6919)
JAMESON, ROBERT A. (MP-9)
HALBIG, JAMES K. (MP-9)

- 47-14
LONGITUDINAL TUNING OF THE LAMPF
201.25-MHZ LINAC WITHOUT SPACE CHARGE.
LASL,
1978. 65P. (LA-6863)
JAMESON, ROBERT A. (MP-9)
JULE, WILLARD E.
MILLS, RENE SCOTT (MP-9)
BUSH, EDGAR D., JR. (MP-8)
GLUCKSTERN, ROBERT L. (MP-8)
- 47-15
MAGNETIC REFRIGERATOR DEVELOPMENT -
DECEMBER 1, 1977 - FEBRUARY 28, 1978.
LASL,
1978. 11P. (LA-7257-PR)
BARCLAY, JOHN A. (Q-10) COMP.
STEYERT, WILLIAM A., JR. (Q-10) COMP.
- 47-16
MECHANICAL DESCRIPTION OF PIGMI.
BULL. AM. PHYS. SOC.,
V.23, P.1051. 1978.
HANSBOROUGH, LASH D. (AT-1)
BUSH, EDGAR D., JR. (MP-8)
HART, VALGENE E. (MP-8)
- 47-17
MEDIUM - ENERGY PHYSICS PROGRAM,
AUGUST 1-OCTOBER 31, 1977.
LASL,
1978. 81P. (LA-7268-PR)
VAN DYCK, OLIN B. (MP-13) COMP.
DUNN, ELEANOR D. (MP-DO) COMP.
- 47-18
MEDIUM - ENERGY PHYSICS PROGRAM, MAY 1-
JULY 31, 1977.
LASL,
1978. 111P. (LA-7081-PR)
VAN DYCK, OLIN B. (MP-13) COMP.
DUNN, ELEANOR D. (MP-DO) COMP.
- 47-19
MEDIUM-ENERGY PHYSICS PROGRAM,
NOVEMBER 1, 1977 - JANUARY 31, 1978.
LASL,
1978. 80P. (LA-7457-PR)
VAN DYCK, OLIN B. (MP-13) COMP.
DUNN, ELEANOR D. (MP-DO) COMP.
- 47-20
MICROPHYSICS OF CLOUDS AND
PRECIPITATION.
REIDEL, 1978.
(551.5/P972M)
PRUPPACHER, HANS R.
KLETT, JAMES D.
- 47-21
MUON SPECTRA FROM PION PRODUCTION
TARGETS.
LASL,
1978. 30P. (LA-7222-MS)
TSCHALAR, C.
- 47-22
NEW DEVELOPMENTS IN ACCELERATOR
TECHNOLOGY AT LASL.
BULL. AM. PHYS. SOC.,
V.23, P.1040. 1978.
STOVAL, JAMES E. (AT-1)
- 47-23
OPTIMIZATION OF THE DISK AND WASHER
ACCELERATING CAVITIES.
LASL,
1978. 14P. (LA-7407)
MANCA, JOSEPH J. (AT-1)
KNAPP, EDWARD A. (AT-DO)
- 47-24
OVERVIEW OF LAMPF AND ITS
ACCOMPLISHMENTS.
LASL,
1978. 34P. (LA-7203-MS)
ROSEN, LOUIS (MP-DO)
- 47-25
POSITION - SENSITIVE GAS PROPORTIONAL
CHAMBERS.
TIC,
1977. 4P. MN (LA-UR-77-2438)
MORRIS, CHRISTOPHER L. (MP-10)
THIESSEN, HENRY A. (MP-10)
HOFFMANN, G. W. (MP-10)
- 47-26
SNEAP 77. SYMPOSIUM OF NORTH-EASTERN
ACCELERATOR PERSONNEL HELD AT THE
LOS ALAMOS SCIENTIFIC LABORATORY,
LOS ALAMOS, NEW MEXICO,
SEPTEMBER 26-28, 1977.
LASL,
1978. 283P. (LA-7445-C)
WOODS, RICHARD (P-9) COMP.
- 47-27
SOME NEW ACCELERATING STRUCTURES FOR
HIGH CURRENT INTENSITY ACCELERATORS.
LASL,
1978. 8P. (LA-7157-MS)
MANCA, JOSEPH J. (P-5)
- 47-28
TM01 MODE ACCELERATING CAVITY
OPTIMIZATION.
LASL,
1978. 23P. (LA-7323)
MANCA, JOSEPH J. (AT-1)
KNAPP, EDWARD A. (AT-DO)
- 47-29
TRANSIENT THERMAL STRESS ANALYSIS
OF A PROPOSED PION PRODUCTION
TARGET.
LASL,
1978. 13P. (LA-7221-MS)
LINDQUIST, LLOYD O. (MP-7)
SCARBROUGH, EDWARD C. (MP-7)

47-30
WORKSHOP ON STABILITY IN
SUPERCONDUCTING MAGNETS, LOS
ALAMOS, NEW MEXICO, JULY 25-
29, 1977.

LASL,
1978. 37P. (LA-7297-C)
HASSENZAHN, WILLIAM V. (Q-10) ED.
ROGERS, JOHN D., JR. (Q-DO) ED.

48. PETROLEUM AND NATURAL GAS

48-1
COLOR MOVIE SIMULATION OF A GAS - WATER
RESERVOIR.

TIC,
1978. 9P. MN (LA-UR-77-2447)
ALSO PUBLISHED IN:
SIMULATION SYMPOSIUM.
1978. 11TH ANNUAL, TAMPA, FL.
RECORD OF PROCEEDINGS, P.95-102.
THE SYMPOSIUM, 1978.
(511.8/S614S 11TH)
JOHNSON, MARK E. (Q-12)
MONASH, ELLIS A.

48-2
EVALUATION OF METHODS FOR
STIMULATION AND CHARACTERIZATION
OF EASTERN GAS SHALES, APRIL-
JUNE 1977.

LASL,
1978. 23P. (LA-7094-PR)
CARTER, WILLIAM J. (G-7) COMP.
VANDERBORGH, NICHOLAS E. (G-7) COMP.

48-3
GAS STIMULATION STUDIES AT LASL.

TIC,
1977. 27P. MN (LA-UR-77-1937)
CARTER, WILLIAM J. (M-6)
OLINGER, BARTON W. (M-6)
VANDERBORGH, NICHOLAS E. (CMB-8)
SPRINGER, THOMAS E. (E-4)

48-4
HYBRID COMPUTERS FOR SIMULATION OF GAS
DIFFUSION IN FRACTURED SHALE.

TIC,
1977. 11P. MN (LA-UR-77-2066)
SPRINGER, THOMAS E. (E-4)

48-5
INVESTIGATION OF THE LOGNORMALITY
OF OFFSHORE OIL AND GAS LEASE
BIDDING DATA. CRAMER-VON MISES
ONE - SAMPLE TEST.

LASL,
1978. 27P. (LA-7339-MS)
GENTER, F. C.
BRUCKNER, LAWRENCE A. (S-1)

48-6
MER (MAXIMUM EFFICIENT RATE) USING A
GAS RESERVOIR MODEL WITH WATERFLOODING.

LASL,
1978. 37P. (LA-6989-MS)
JOHNSON, MARK E. (Q-12)
MC FARLAND, JAMES W.
MONASH, ELLIS A.
LOHRENZ, JOHN

48-7
MODELING AND OPTIMIZING A GAS -
WATER RESERVOIR.

LASL,
1978. 27P. (LA-7088)
JOHNSON, MARK E. (S-1)
MONASH, ELLIS A.
WATERMAN, MICHAEL S. (S-1)

48-8
ON THE PROBABILITY DISTRIBUTION OF
BIDS ON OUTER CONTINENTAL SHELF OIL
AND GAS LEASES.

LASL,
1978. 20P. (LA-7190-MS)
BRUCKNER, LAWRENCE A. (Q-12)
JOHNSON, MYRLE M. (Q-12)

48-9
SIMULATION STUDY OF MER FOR GAS - WATER
RESERVOIRS.

LASL,
1978. 34P. (LA-6866-MS)
MC FARLAND, JAMES W.
SPRINGER, THOMAS E. (E-4)
MONASH, ELLIS A.
LOHRENZ, JOHN

48-10
STIMULATION AND CHARACTERIZATION
OF EASTERN GAS SHALES,
OCTOBER-DECEMBER 1977.

LASL,
1978. 18P. (LA-7383-PR)
SCHOTT, GARRY L. (G-7) COMP.
CARTER, WILLIAM J. (G-7)
VANDERBORGH, NICHOLAS E. (G-7)

48-11
STIMULATION AND CHARACTERIZATION OF
EASTERN GAS SHALES, JULY -
SEPTEMBER, 1977.

LASL,
1978. 40P. (LA-7320-PR)
SCHOTT, GARRY L. (G-7) COMP.
CARTER, WILLIAM J. (G-7)
VANDERBORGH, NICHOLAS E. (G-7)

48-12
STIMULATION AND CHARACTERIZATION OF
EASTERN GAS SHALES,
APRIL - JUNE, 1978.

LASL,
1978. 9P. (LA-7564-PR)
SCHOTT, GARRY L. (G-7) COMP.
CARTER, WILLIAM J. (G-7)
VANDERBORGH, NICHOLAS E. (G-7)

50. PHYSICS--ATOMIC AND MOLECULAR

50-1
AB INITIO CALCULATION OF THE
VIBRATIONAL ENERGY TRANSFER RATE
OF HYDROGEN IN ARGON USING MONTE
CARLO CLASSICAL TRAJECTORIES AND
THE FORCED QUANTUM OSCILLATOR
MODEL.

J. CHEM. PHYS.,
V.69, P.846-54, 1978.
BLAIS, NORMAND C. (CNC-2)
TRUHLAR, DONALD G. (CNC-2)

50-2
AB INITIO EFFECTIVE CORE
POTENTIALS FOR MOLECULAR
CALCULATIONS. II. ALL -
ELECTRON COMPARISONS AND
MODIFICATIONS OF THE PROCEDURE.

J. CHEM. PHYS.,
V.68, P.3059-66, 1978.
HAY, P. JEFFREY (T-12)
WADT, WILLARD R. (T-12)
KAHN, LUIS R.

50-3
AB INITIO STUDIES OF GOLD
HYDRIDE, GOLD CHLORIDE, MERCURY
HYDRIDE AND MERCURY CHLORIDE
USING RELATIVISTIC EFFECTIVE
CORE POTENTIALS.

J. CHEM. PHYS.,
V.69, P.984-97, 1978.
HAY, P. JEFFREY (T-12)
WADT, WILLARD R. (T-12)
KAHN, LUIS R.
BOBROWICZ, FRANK W.

50-4
AB INITIO STUDIES OF THE METAL - METAL
BOND IN DIRHENIUM OCTACHLORIDE.

J. AM. CHEM. SOC.,
V.100, P.2897-8, 1978.
HAY, P. JEFFREY (T-12)

50-5
ABSOLUTE INTEGRATED INTENSITIES
OF THE INFRARED ABSORPTION BANDS
OF TITANIUM TETRACHLORIDE.

J. CHEM. PHYS.,
V.69, P.297-9, 1978.
PERSON, WILLIS B. (AP-2)
MAIER, WILLIAM B., II (AP-4)

50-6
ABSOLUTE OSCILLATOR STRENGTHS FOR
NEUTRAL ATOMIC URANIUM.

J. OPT. SOC. AM.,
V.68, P.1173-81, 1978.
BIENIEWSKI, THOMAS M. (CMB-1)

50-7
AC CONDUCTIVITY OF A ONE-
DIMENSIONAL SITE - DISORDERED
LATTICE.

BULL. AM. PHYS. SOC.,
V.23, P.414, 1978.
ALBERS, ROBERT C. (T-11)
GUBERNATIS, JAMES E. (T-11)

50-8
AC CONDUCTIVITY OF A ONE-
DIMENSIONAL SITE - DISORDERED
LATTICE.

PHYS. REV.,
V.17B, P.4487-94, 1978.
ALBERS, ROBERT C. (T-11)
GUBERNATIS, JAMES E. (T-11)

50-9
ACCURATE HYDROGEN (SUB 3) DYNAMICS ON
AN ACCURATE HYDROGEN (SUB 3) POTENTIAL
SURFACE.

J. CHEM. PHYS.,
V.69, P.2922-3, 1978.
WALKER, ROBERT B. (T-12)
STECHEL, ELLEN B.
LIGHT, JOHN C.

50-10
ANALYSIS OF 3 NU/SUB 3/ IN
SULFUR HEXAFLUORIDE.

J. CHEM. PHYS.,
V.69, P.1461-4, 1978.
GALBRAITH, HAROLD W. (T-12)
ACKERHALT, JAY R. (T-12)

50-11
ANISOTROPIC POTENTIALS AND THE
DAMPING OF RAINBOW AND DIFFRACTION
OSCILLATIONS IN DIFFERENTIAL CROSS
SECTIONS.

CHEM. PHYS. LETT.,
V.55, P.197-201, 1978.
PACK, RUSSELL T. (T-12)

50-12
CALCULATIONS OF THE ELECTRONIC STRUCTURE
AND TRANSITIONS OF ACTINIDE METAL
HEXAFLUORIDES.

J. CHEM. PHYS.,
V.69, P.112-6, 1978.
BORING, A. MICHAEL (CNC-3)
HECHT, HARRY G. (CNC-2)

50-13
CALCULATIONS OF THE TEMPERATURE
DEPENDENCE OF THE MULTIPHOTON
ABSORPTION SPECTRUM OF SULFUR
HEXAFLUORIDE.
OPT. LETT.,
V.3, P.109-11. 1978.
GALBRAITH, HAROLD W. (T-12)
ACKERHALT, JAY R. (T-12)

50-14
CARBON -13 RELAXATION TIMES IN A
HYDROCARBON CHAIN UNDERGOING
GAUCH-TRANS ISOMERISM.
BIOMOLECULAR STRUCTURE AND
FUNCTION. 1977 (MAY). SYMP.,
UNIV. OF MISSOURI, COLUMBIA. PROC.
P.F. AGRIS, ED. P.79-85. ACADEMIC,
1978. (574.8/B615S)
LONDON, ROBERT E. (CNC-4)
AVITABILE, JOHN W., JR. (T-10)

50-15
COLLISIONAL EFFECTS IN THE MULTIPLE
INFRARED PHOTON ABSORPTION
IN SULFUR HEXAFLUORIDE.
OPT. LETT.,
V.3, P.106-8. 1978.
QUIGLEY, G. P. (AP-3)

50-16
COLLISIONLESS MULTIPLE PHOTON
EXCITATION OF SULFUR HEXAFLUORIDE.
A COMPARISON OF ANHARMONIC
OSCILLATORS WITH AND WITHOUT
OCTAHEDRAL SPLITTING IN THE
PRESENCE OF ROTATIONAL EFFECTS.
J. CHEM. PHYS.,
V.69, P.1200-6. 1978.
ACKERHALT, JAY R. (T-12)
GALBRAITH, HAROLD W. (T-12)

50-17
COMMENT ON "THEORY OF RESONANCE
FLUORESCENCE".
PHYS. REV.,
V.17A, P.471-2. 1978.
ACKERHALT, JAY R. (T-12)

50-18
COMPARISON OF MULTIPLE - PHOTON
EXCITATION MODELS.
OPT. LETT.,
V.3, P.152-3. 1978.
GALBRAITH, HAROLD W. (T-12)
ACKERHALT, JAY R. (T-12)

50-19
CONVERGENCE STUDIES OF LOW ENERGY
STATIC E-NITROGEN COLLISIONS.
J. PHYS. B,
V.10, P.1119-23. 1977.
MORRISON, MICHAEL A. (T-12)
COLLINS, LEE A.

50-20
CORRELATIONS AND SELF-CONSISTENCY
IN PION SCATTERING.(I)
NUCL. PHYS.
V.305A, P.418-60. 1978.
JOHNSON, MIKKEL (MP-DO)
BETHE, HANS A.

50-21
COVALENT AND IONIC STATES OF
THE RARE GAS MONOFLUORIDES.
J. CHEM. PHYS.,
V.69, P.134-49. 1978.
DUNNING, THOMAS H., JR. (CNC-2)
HAY, P. JEFFREY (T-12)

50-22
COVALENT AND IONIC STATES OF THE
XENON HALIDES.
J. CHEM. PHYS.,
V.69, P.2209-20. 1978.
HAY, P. JEFFREY (T-12)
DUNNING, THOMAS H., JR.

50-23
DETAILED QUANTUM TRANSITION STATE
THEORY. APPLICATION TO COLLINEAR
REACTIONS.
TIC
1978. 48P. MM (LA-UR-78-649)
WALKER, ROBERT E. (T-12)

50-24
DIATOMIC - MOLECULE VIBRATIONAL
POTENTIALS - ACCURACY OF
REPRESENTATIONS.
J. CHEM. PHYS.,
V.68, P.3514-21. 1978.
ENGELKE, RAY (M-3)

50-25
DIFFUSION TENSOR FOR ATOMIC
MIGRATION IN CRYSTALS.
PHYS. REV.,
V.18B, P.2050-8. 1978.
LARSEN, EDWARD W. (T-1)
SCHUSS, ZEEV

50-26
DIHEDRAL ANGLE DEPENDENCE OF
GEMINAL, SCALAR COUPLING CONSTANTS
IN CARBON -13(1) AMINO SUGARS.
CARBOHYDR. RES.,
V.60, P.9-18. 1978.
WALKER, THOMAS E. (CNC-4)
LONDON, ROBERT E. (CNC-4)
BARKER, ROBERT
MATWYIOFF, NICHOLAS A. (CNC-4)

50-27
DIODE LASER MEASUREMENTS OF AMMONIA
ABSORPTION LINES AROUND 10.6
MICROMETERS.
J. MOL. SPECTROSC.,
V.69, P.489-93. 1978.
NERESON, NORRIS G. (AP-4)

50-28
DIPOLE INTERACTIONS AND TRAPPING EFFECTS
OF POSITIVE MUONS IN FCC AND BCC METALS.
J. NUCL. MATER.,
V.69 & 70, P.613-5. 1978.
STRAUB, GALEN K. (T-4)
PARKIN, DON M. (CMB-8)
LYNN, K. G.

50-29
DISSOCIATION OF NITROGEN TRIFLUORIDE
IN SHOCK WAVES.
J. CHEM. PHYS.,
V.68, P.2996-7. 1978.
BRESHEARS, W. DALE (AP-4)
BIRD, PAUL F. (Q-8)

50-30
DISSOCIATIVE ATTACHMENT OF ELECTRONS
TO FLUORINE.
APPL. PHYS. LETT.,
V.33, P.569-71. 1978.
SCHNEIDER, BARRY (T-12)
BRAU, CHARLES (AP-2)

50-31
DYNAMIC ELECTRON SCREENING IN NUCLEAR
AND MESONIC ATOM E1 TRANSITIONS.
NUCL. PHYS.,
V.A298, P.333-43. 1978.
LEON, MELVIN (MP-3)
SEKI, RYOICHI (MP-3)

50-32
EFFECTS OF MOLECULAR ROTATION
AND VIBRATION ROTATION INTERACTION
ON COLLISIONLESS MULTIPLE
PHOTON EXCITATION OF SULFUR
HEXAFLUORIDE.
OPT. LETT.,
V.2, P.151-3. 1978.
CANTRELL, CYRUS D., III (T-12)
FOX, KENNETH (AP-4)

50-33
ELECTRON TRANSFER IN COLLISIONS
BETWEEN ATOMIC IONS AND RARE-GAS
ATOMS FOR PRIMARY-ION ENERGIES BELOW
200 EV. II.
J. CHEM. PHYS.,
V.69, P.3077-92. 1978.
MAIER, WILLIAM B., II (L-3)

50-34
ELECTRON TRANSFER IN COLLISIONS OF
DOUBLY CHARGED ATOMIC IONS WITH
RARE - GAS ATOMS FOR PRIMARY - ION
ENERGIES BELOW 100 EV.
BULL. AM. PHYS. SOC.,
V.23, P.149-50. 1978.
MAIER, WILLIAM B., II (AP-4)

50-35
ELECTRON TRANSFER IN COLLISIONS OF
DOUBLY CHARGED ATOMIC IONS WITH RARE -
GAS ATOMS FOR PRIMARY - ION ENERGIES
BELOW 100 EV.
J. CHEM. PHYS.,
V.68, P.4228-32. 1978.
MAIER, WILLIAM B., II (AP-4)
STEWART, BRUCE (AP-4)

50-36
ELECTRONIC STATES OF ARGON FLUORIDE
AND KRYPTON FLUORIDE.
J. CHEM. PHYS.,
V.68, P.3850-3. 1978.
WADT, WILLARD R. (T-12)
HAY, P. JEFFREY (T-12)

50-37
ELECTRONIC STATES OF CHROMIUM CARBONYL
J. AM. CHEM. SOC.,
V.100, P.2411-17. 1978.
HAY, P. JEFFREY (T-12)

50-38
ELECTRONIC STRUCTURE AND RADIATIVE
PROPERTIES OF THE RARE GAS HALIDES.
BULL. AM. PHYS. SOC.,
V.23, P.132. 1978.
HAY, P. JEFFREY (T-12)
DUNNING, THOMAS H., JR. (CNC-2)

50-39
ELECTRONIC STRUCTURE AND SPECTRAL
PROPERTIES OF RARE - GAS DIMER
IONS (NEON +, ARGON +, KRYPTON +,
XENON +) AND TRIATOMIC RARE - GAS
FLUORIDES (ARGON FLUORIDE,
KRYPTON FLUORIDE).
BULL. AM. PHYS. SOC.,
V.23, P.134. 1978.
WADT, WILLARD R. (T-12)
CARTWRIGHT, DAVID C. (T-12)
HAY, P. JEFFREY (T-12)
COHEN, JAMES S. (T-12)

50-40
ENERGY SPECTRUM OF STOPPING NEGATIVE
MESONS AND THE CONCENTRATION DEPENDENC
OF CAPTURE FRACTIONS.
PHYS. REV.,
V.17A, P.2112-5. 1978.
LEON, MELVIN (MP-3)

50-41
EPR STUDIES OF VALENCE FLUCTUATING
CERIUM (1-X) THORIUM (X).
BULL. AM. PHYS. SOC.,
V.23, P.232. 1978.
HUANG, CHAO-YUAN (Q-10)
SUGAWARA, K.
SCHMIDT, P. H.

50-42
ERRATUM. CARBON -13 NMR OF CARBON
MONOXIDE. I. PRESSURE DEPENDENCE OF
TRANSLATIONAL MOTION IN BETA - CO.
(J. CHEM. PHYS. 66, 4811. 1977)
J. CHEM. PHYS.
V.68, P.2022. 1978.
FUKUSHIMA, EIICHI (CNC-4)
GIBSON, A. A. V.
SCOTT, T. A.

50-43
EVIDENCE FOR A RESONANCE IN
E+ -H S-WAVE SCATTERING.
PHYS. REV. LETT.
V.40, P.313-5. 1978.
DOOLEN, GARY D. (TD-2)
NUTTALL, J.
WHERRY, C. J.

50-44
EXCHANGE IN LOW - ENERGY ELECTRON -
MOLECULE SCATTERING. FREE - ELECTRON
GAS MODEL EXCHANGE POTENTIALS AND
APPLICATIONS TO E-HYDROGEN AND
E-NITROGEN COLLISIONS.
PHYS. REV.
V.17A, P.918-38. 1978.
MORRISON, MICHAEL A. (T-12)
COLLINS, LEE A. (T-4)

50-45
EXCITONS IN GALLIUM MONOSELENIDE.
BULL. AM. PHYS. SOC.,
V.23, P.426. 1978.
ALDRICH, CHARLES H. (M-6)

50-46
EXISTENCE OF THE DIELECTRIC CONSTANT IN
FLUIDS OF NONLINEAR RIGID POLAR
MOLECULES.
J. CHEM. PHYS.
V.68, P.5199-202. 1978.
RAMSHAW, JOHN D. (T-3)

50-47
EXTREME BACK ANGLE NEUTRON
DEUTERON ELASTIC SCATTERING
AT 794 MEV.
PHYS. REV.
V.17C, P.671-5. 1978.
BONNER, BILLY E. (P-DOR)
SIMMONS, JAMES E. (P-DOR)
EVANS, MICHAEL L. (Q-1)
GLASS, G. (P-DOR)
HIEBERT, J. C.
JAIN, MAHAVIR (Q-1)
NORTHCLIFFE, LEE CONRAD
BJORK, C. W.
RILEY, P. J.
CASSAPAKIS, CONSTANTINE G.

50-48
FRAME TRANSFORMATION RELATIONS AND
MULTIPOLE TRANSITIONS IN SYMMETRIC
POLYATOMIC MOLECULES.
REV. MOD. PHYS.
V.50, P.37-83. 1978.
HARTER, WILLIAM G.
PATTERSON, C. W. (T-7)
DA PAIXAO, FERNANDO J.

50-49
GAMMA SPECTRA FROM URANIUM -233,
URANIUM -235, AND PLUTONIUM -239
DURING THERMAL NEUTRON IRRADIATION.
LASL
1978. 13P. (LA-7451-MS)
BENDT, PHILIP J. (P-2)
JURNEY, EDWARD T. (P-DO)

50-50
GENERALIZED LANGEVIN THEORY OF GAS /
SOLID - SURFACE DYNAMICS. A FORMULATION
FOR THERMAL DESORPTION.
J. CHEM. PHYS.
V.68, P.3158-61. 1978.
DOLL, JIMMIE D. (CNC-2)

50-51
HIGH RESOLUTION SPECTROSCOPY OF
THE OSMIUM TETRAOXIDE STRETCHING
FUNDAMENTAL AT 961 CM/SUP -1/.
J. CHEM. PHYS.
V.69, P.1513-21. 1978.
MC DOWELL, ROBIN S. (AP-4)
RADZIEMSKI, LEON J., JR. (AP-4)
FLICKER, HERBERT J. (AP-DOT)
GALBRAITH, HAROLD W. (T-12)
KENNEDY, R. CRAIG (AP-3)
NERESON, NORRIS G. (AP-4)
KROHN, BURTON J. (T-12)
ALDRIDGE, JACK P. (AP-4)
KING, JOE DAVID (AP-4)
FOX, KENNETH

50-52
HIGH-J ASSIGNMENTS IN THE 10.5
MICROMETER SULFUR HEXAFLUORIDE
SPECTRUM. IDENTIFICATION OF THE
LEVELS PUMPED BY CARBON DIOXIDE
P(12) AND P(22).
OPT. LETT.
V.2, P.97-9. 1978.
MC DOWELL, ROBIN S. (AP-4)
GALBRAITH, HAROLD W. (T-12)
CANTRELL, CYRUS D., III (T-12)
NERESON, NORRIS G. (AP-4)
MOULTON, PETER F.
HINKLEY, E. DAVID

50-53
IMPROVED CALCULATION OF THE
MUONIC HELIUM LAMB SHIFT.
PHYS. REV.
V.18A, P.324-7. 1978.
BORIE, E.
RINKER, GEORGE A., JR. (L-6)

- 50-54
IMPROVED PAULI HAMILTONIAN FOR LOCAL
POTENTIAL PROBLEMS.
PHYS. REV.
V.18B, P.2701-11. 1978.
WOOD, JOHN H. (CMB-5)
BORING, A. MICHAEL (T-12)
- 50-55
INFRARED SPECTROSCOPY IN SUPERSONIC
MOLECULAR BEAMS. NU 3 BAND OF SULFUR
HEXAFLUORIDE AT 10.6 MICROMETERS.
APPL. SPECTROSC.
V.32, P.287-9. 1978.
KIM, KYU C. (AP-4)
HOLLAND, REDUS F. (AP-4)
FILIP, HENRY (AP-4)
- 50-56
INHIBITION OF HOMOGENEOUS CONDENSATION
OF SULFUR HEXAFLUORIDE BY VIBRATIONAL
EXCITATION.
CHEM. PHYS. LETT.
V.54, P.253-7. 1978.
KIM, KYU C. (AP-4)
FILIP, HENRY (AP-4)
PERSON, W. B. (AP-4)
- 50-57
INTER-VALENCE-BAND ABSORPTION
IN ELECTRON-HOLE DROPLETS.
PHYS. REV. LETT.
V.41, P.1249-53. 1978.
SILVER, RICHARD N. (T-11)
ALDRICH, CHARLES H. (M-6)
- 50-58
INTERMOLECULAR POTENTIAL ENERGY
SURFACES FROM ELECTRON GAS METHODS
III. ANGLE, DISTANCE, AND VIBRATIONAL
DEPENDENCE OF THE ARGON -
CARBON MONOXIDE INTERACTION.
J. CHEM. PHYS.
V.69, P.3268-78. 1978.
PARKER, GREGORY A. (T-12)
PACK, RUSSELL T. (T-12)
- 50-59
INVESTIGATION OF THE MULTIPLE - PHOTON
DISSOCIATION OF SULFUR CHLORIDE
PENTAFLUORIDE WITH A REAL TIME
CHLORINE - ATOM DIAGNOSTIC.
J. CHEM. PHYS.
V.69, P.1196-9. 1978.
KARL, ROBERT R. (AP-3)
LYMAN, JOHN L. (AP-3)
- 50-60
INVESTIGATION OF URANIUM PLASMA
EMISSION FROM 1050 TO 6000 ANGSTROMS.
LASL
1978. 152P. THESIS, UNIV.
OF FLORIDA, GAINESVILLE,
1977. (LA-7101-T)
MACK, JOSEPH M., JR. (J-15)
- 50-61
IONIZATION ENERGY LOSS OF
RELATIVISTIC ELECTRONS IN
THIN SILICON DETECTORS.
PHYS. REV. LETT.
V.40, P.1242-4. 1978.
OGLE, WILLIAM (WPC-2)
GOLDSTONE, PHILIP D. (L-1)
GRUHN, CHARLES R. (E-10)
MAGGIORE, CARL J. (E-10)
- 50-62
LASER - INDUCED TIME - RESOLVED EMISSION
OF ELECTRONICALLY - EXCITED URANIUM
HEXAFLUORIDE.
CHEM. PHYS. LETT.
V.54, P.554-6. 1978.
WAMPLER, FRED B. (AP-3)
OLDENBORG, RICHARD C. (AP-3)
RICE, WALTER W. (AP-2)
- 50-63
LASER INDUCED FLUORESCENCE OF
GASEOUS URANIUM HEXAFLUORIDE IN
THE A-X BAND.
J. CHEM. PHYS.
V.69, P.2181-7. 1978.
OLDENBORG, RICHARD C. (AP-3)
RICE, WALTER W. (AP-2)
WAMPLER, FRED B. (AP-3)
- 50-64
LIFETIME AND QUENCHING RATE
CONSTANTS FOR KR(2)F AND KR(2).
APPL. PHYS. LETT.
V.32, P.649-51. 1978.
QUIGLEY, G. P. (AP-3)
HUGHES, WILLIAM M. (Q-8)
- 50-65
LIFETIME SATURATION OF SULFUR
DIOXIDE (3B1) MOLECULES. EVALUATION
OF CHEMICAL AND PHYSICAL QUENCHING
CHANNELS IN ALKANES.
J. CHEM. PHYS.
V.69, P.2569-73. 1978.
WAMPLER, FRED B. (AP-3)
OLDENBORG, RICHARD C. (AP-3)
RICE, WALTER W. (AP-2)
KARL, ROBERT R. (AP-3)
- 50-66
LINKED - CLUSTER PERTURBATION THEORY
FOR CLOSED AND OPEN - SHELL
SYSTEMS. DERIVATION OF EFFECTIVE
PI - ELECTRON HAMILTONIANS.
ELECTRONIC STRUCTURE AND
PROPERTIES OF POLYMERS. 1977.
NATO ADVANCED STUDY INSTITUTE,
NAMUR, BELGIUM. PROC., QUANTUM
THEORY OF POLYMERS, P.137-67.
D. REIDEL, 1978.
BRANDOW, BAIRD H. (T-11)

- 50-67
LOCAL METHOD FOR DIGITALLY
RESTORING MOTION - BLURRED IMAGES.
IEEE, TRANS. ACOUST. SPEECH,
SIGNAL PROCESSING, V. ASSP-26,
P. 256-63. 1978.
HYMAN, JAMES M.
SANDERSON, JAMES G., JR. (C-8)
- 50-68
LOW - LYING STATES OF ARGON +
KRYPTON +, XENON +. I. POTENTIAL
CURVES WITH AND WITHOUT SPIN -
ORBIT COUPLING.
J. CHEM. PHYS.
V. 68, P. 402-14. 1978.
WADT, WILLARD R. (T-12)
- 50-69
LOW ENERGY E-DIATOMIC MOLECULAR
SCATTERING. AN EXACT STATIC -
EXCHANGE CLOSE-COUPLING METHOD.
BULL. AM. PHYS. SOC.,
V. 23, P. 1082. 1978.
COLLINS, LEE A. (T-4)
ROBE, W. DEREK (T-4)
- 50-70
LOW ENERGY E-MOLECULAR ION
SCATTERING. STATIC EXCHANGE AND
COUPLED ELECTRONIC STATE
CALCULATIONS.
BULL. AM. PHYS. SOC.,
V. 23, P. 1082. 1978.
ROBB, W. DEREK (T-4)
COLLINS, LEE A. (T-4)
- 50-71
MEASUREMENT AND MODEL INDEPENDENT
ANALYSIS OF THE X RAYS OF
MUONIC SAMARIUM -150 AND
SAMARIUM -152.
PHYS. REV.
V. 18C, P. 1474-96. 1978.
YAMAZAKI, Y. (P-2)
SHERA, E. BROOKS (P-2)
HOEHN, MARTHA V. (P-2)
STEFFEN, ROLF M.
- 50-72
MEASUREMENT OF 16 MICROMETER
EMISSION OF A TWO PHOTON EXCITED
AMMONIA LASER.
J. APPL. PHYS.
V. 49, P. 2983. 1978.
FLICKER, HERBERT J. (AP-DOT)
HOLLAND, REDUS F. (AP-4)
BISCHEL, W. K.
PLUMMER, H.
RHODES, CHARLES K.
- 50-73
MEASUREMENTS OF SOME LINE POSITIONS AND
STRENGTHS IN THE NU -4 REGION OF
SULFUR HEXAFLUORIDE.
J. CHEM. PHYS.,
V. 69, P. 1764-9. 1978.
PERSON, WILLIS B. (T-12)
KIM, KYU C. (AP-4)
- 50-74
MECHANISM AND RATES OF ROTATIONAL
RELAXATION OF CARBON DIOXIDE (001)
IN HELIUM AND ARGON.
J. CHEM. PHYS.,
V. 69, P. 2823-32. 1978.
PRESTON, RICHARD K.
PACK, RUSSELL T. (T-12)
- 50-75
METHOD OF GENERALIZED COORDINATES AND
AN APPLICATION TO RAYLEIGH-TAYLOR
INSTABILITY.
PHYS. FLUIDS,
V. 21, P. 736-44. 1978.
DIENES, JOHN K. (T-3)
- 50-76
MOBILITY OF ALPHA PARTICLES IN
HELIUM.
PHYS. REV.,
V. 18A, P. 1009-11. 1978.
WADEHRA, JOGINDRA (T-4)
COHEN, JAMES S. (T-12)
BARDSLEY, JAMES N. (T-4)
- 50-77
MOLECULAR BEAM PHOTOIONIZATION
STUDY OF ACETONE AND ACETONE-D6.
J. CHEM. PHYS.,
V. 69, P. 3150-8. 1978.
TROT, WAYNE M. (CNC-2)
BLAIS, NORMAND C. (CNC-2)
WALTERS, EDWARD A.
- 50-78
MOLECULAR DYNAMICS OF SHOCK WAVES IN
ONE - DIMENSIONAL CHAINS.
PHYS. REV.,
V. 18E, P. 1593-1608. 1978.
HOLIAN, BRAD LEE (T-11)
STRAUB, GALEN K. (T-14)
- 50-79
NITROGEN -15 MAGNETIC RESONANCE
OF AQUEOUS IMIDAZOLE AND ZINC (II)
IMIDAZOLE COMPLEXES. EVIDENCE FOR
HEXACOORDINATION.
INORG. CHEM.,
V. 17, P. 2288-93. 1978.
ALEI, MOHAMMED, JR. (CNC-4)
MORGAN, LEON O. (CNC-4)
WAGEMAN, WILLIAM E. (CNC-4)

50-80
NONLINEAR OPTICAL PROPERTIES OF
INDIUM ANTIMONIDE - HOT -ELECTRON
EFFECTS.
PHYS. REV.
V.17B, P.3936-45. 1978.
NEE, T. W.
CANTRELL, CYRUS D., III (L-DOT)
SCOTT, J. F.
SCULLY, MARLAN O.

50-81
NOVEL ZERO TIME DETECTOR FOR HEAVY ION
SPECTROSCOPY.
NUCL. INSTRUM. METHODS,
V.148, P.503-9. 1978.
BOWMAN, J. DAVID (MP-4)
HEFFNER, ROBERT H. (MP-3)

50-82
NU /SUB 4/ FUNDAMENTAL OF
THREE ISOTOPIC SPECIES OF
CARBON TETRAFLUORIDE.
J. MOL. SPECTROSC.
V.70, P.288-93. 1978.
JONES, LLEWELLYN H. (CNC-4)
KROHN, BURTON J. (T-12)
KENNEDY, R. CRAIG (AP-4)

50-83
NUCLEAR CHARGE DISTRIBUTIONS
DEDUCED FROM THE MUONIC ATOMS
OF THORIUM -232, URANIUM -235,
URANIUM -238, AND PLUTONIUM -239.
PHYS. REV.
V.17C, P.1433-55. 1978.
CLOSE, DONALD A. (Q-1)
MALANIFY, JOHN J. (P-11)
DAVIDSON, JOHN P.

50-84
NUCLEAR MAGNETIC RESONANCE STUDIES
ON BACTERIAL DIHYDROFOLATE
REDUCTASE CONTAINING METHYL-
CARBON -13 LABELED METHIONINE.
BIOCHEMISTRY,
V.17, P.2284-93. 1978.
BLAKLEY, RAYMOND L.
COCCO, LENNIE
LONDON, ROBERT E. (CNC-4)
WALKER, THOMAS E. (CNC-4)
MATWIYOFF, NICHOLAS A. (CNC-4)

50-85
ON MAGNETIC TRANSITIONS AND THE
INTERPRETATION OF THE PARTIAL WAVE
PARAMETER IN THE CS AND IOS
APPROXIMATIONS IN MOLECULAR
SCATTERING THEORY.
J. CHEM. PHYS.
V.69, P.4419-30. 1978.
KHARE, V.
KOURI, D. J.
PACK, RUSSELL T. (T-12)

50-86
ON THE CONSTRUCTION OF THE R-MATRIX
FOR THREE-DIMENSIONAL, REACTIVE
ATOM - DIATOM SCATTERING.
APPLICATION TO H + H2.
TIC,
1977. 42P. MN (LA-UR-78-966)
STECHEL, ELLEN B.
WALKER, ROBERT B. (T-12)
LIGHT, JOHN C.

50-87
ON THE INFLUENCE OF MOLECULAR
STRUCTURE UPON THE COLLISIONLESS
LASER PHOTODISSOCIATION OF
SULFUR HEXAFLUORIDE.
MULTIPHOTON PROCESSES. 1977.
INTERNATIONAL CONF., UNIV. OF
ROCHESTER, NY. PROC., P.307-30.
J.H. EBERLY, ED. WILEY, 1978.
(541.35/M961P)
CANTRELL, CYRUS D., III (T-12)
GALBRAITH, HAROLD W. (T-12)
ACKERHALT, JAY R. (T-12)

50-88
ON THE RATE AND ACTIVATION ENERGY OF
THE BROMINE ATOM + BROMINE
MOLECULE ATOM - EXCHANGE REACTION.
CHEM. PHYS. LETT.
V.55, P.424-7. 1978.
THOMPSON, DONALD L. (CNC-2)

50-89
OXYGEN -18 ISOTOPE EFFECTS IN THE
ELECTRONIC SPECTRUM OF UO2F2.
II. TEMPERATURE EFFECTS.
INORG. NUCL. CHEM. LETT.,
V.14, P.333-5. 1978.
DE POORTER, GERALD L. (AP-3)
ROFER-DE POORTER, CHERYL K. (AP-)

50-90
PHENOMENOLOGICAL CONSTRAINTS ON
BROKEN SUPERSYMMETRY.
PHYS. LETT.
V.78B, P.110-5. 1978.
GOLDMAN, TERRENCE J. (T-8)

50-91
PION - INDUCED SPALLATION OF COPPER
ACROSS THE (3,3) RESONANCE.
PHYS. REV.
V.18C, P.1426-35. 1978.
ORTH, CHARLES J. (CNC-11)
DROPSKY, BRUCE J. (CNC-11)
WILLIAMS, ROBERT A. (CNC-11)
GIESLER, GREGG CARL (CNC-11)
HUDIS, JEROME

50-92
PLASMON - PLASMON INTERACTIONS.
PHYS. REV. LETT.
V.40, P.257-60. 1978.
DUBOIS, DONALD F. (T-11)
GOLDMAN, MARTIN VAN

50-93
POLYHALIDE PHOTOFRAGMENT SPECTRA.
II. ULTRAVIOLET PHOTODISSOCIATION
DYNAMICS OF URANIUM HEXAFLUORIDE.
J. CHEM. PHYS.,
V.68, P.4195-4201, 1978.
KROGER, PETER M.
RILEY, STEPHEN J.
KWEI, GEORGE H. (CNC-2)

50-94
POSITIVE MUONS IN ALUMINUM. SELF-
TRAPPING AND DIFFUSION.
BULL. AM. PHYS. SOC.,
V.23, P.358, 1978.
SHAW, MILTON S. (T-14)

50-95
POTENTIAL CONSTANTS AND
DISSOCIATION PATHWAYS.
J. MOL. STRUCT.,
V.46, P.35-42, 1978.
JONES, LLEWELLYN H. (CNC-4)
RYAN, ROBERT R. (CNC-4)

50-96
POTENTIAL CONSTANTS OF CARBON
TETRAFLUORIDE.
J. CHEM. PHYS.,
V.69, P.833-8, 1978.
JONES, LLEWELLYN H. (CNC-4)
KENNEDY, R. CRAIG (AP-3)
EKBERG, SCOTT A. (CNC-4)

50-97
PREPARATION AND PROPERTIES OF
TETRABUTYL-AMMONIUM
URANIUM(V) HEXACHLORIDE.
J. INORG. NUCL. CHEM.,
V.40, P.1885-7, 1978.
BEATTIE, WILLARD H. (AP-4)
MAIER, WILLIAM B., II (AP-4)
HOLLAND, REDUS F. (AP-4)

50-98
Q-BRANCH SPECTRUM OF THE 011DO-0000
TRANSITION OF ¹³C CARBON DIOXIDE.
J. MOL. SPECTROSC.,
V.69, P.330-2, 1978.
REISFELD, MARTIN J. (AP-3)
FLICKER, HERBERT J. (AP-DOT)

50-99
QUASICLASSICAL TRAJECTORY STUDY OF
THE ENERGY TRANSFER IN CARBON
DIOXIDE - RARE GAS SYSTEMS.
J. CHEM. PHYS.,
V.68, P.455-72, 1978.
SUZUKAWA, HENRY H., JR.
WOLFSBERG, MAX (CNC-2)
THOMPSON, DONALD L. (CNC-2)

50-100
QUENCHING OF ELECTRONICALLY -
EXCITED URANIUM HEXAFLUORIDE
EMISSION BY SELECTED ORGANICS.
CHEM. PHYS. LETT.,
V.54, P.557-9, 1978.
WAMPLER, FRED B. (AP-3)
OLDENBORG, RICHARD C. (AP-3)
RICE, WALTER W. (AP-2)

50-101
QUENCHING OF ELECTRONICALLY - EXCITED
URANIUM HEXAFLUORIDE BY SELECTED
INORGANICS.
CHEM. PHYS. LETT.,
V.54, P.560-1, 1978.
WAMPLER, FRED B. (AP-3)
OLDENBORG, RICHARD C. (AP-3)
RICE, WALTER W. (AP-2)

50-102
QUENCHING OF ELECTRONICALLY EXCITED
URANIUM HEXAFLUORIDE.
AMERICAN CHEMICAL SOCIETY.
NATIONAL MEETING, 1978 (MAR.)
175TH, ANAHEIM, CA. ABSTRACTS OF
PAPERS, PHYS 144.
WAMPLER, FRED B. (AP-3)
OLDENBORG, RICHARD C. (AP-3)
RICE, WALTER W. (AP-2)

50-103
R MATRIX METHOD "APPLICATION
TO ATOMS AND IONS."
PHYSICS OF ELECTRONIC AND
ATOMIC COLLISIONS, 1977, 10TH
INTERNATIONAL CONFERENCE, PARIS.
PROC. ELECTRONIC AND ATOMIC
COLLISIONS, P.231-55.
NORTH-HOLLAND, 1978.
ROBB, W. DEREK (T-4)

50-104
R-MATRIX METHOD. APPLICATIONS
TO ELECTRON - MOLECULE COLLISIONS.
PHYSICS OF ELECTRONIC AND
ATOMIC COLLISIONS, 1977, 10TH
INTERNATIONAL CONFERENCE, PARIS.
PROC. ELECTRONIC AND ATOMIC
COLLISIONS, P.257-69.
NORTH-HOLLAND, 1978.
SCHNEIDER, BARRY (T-12)

50-105
R-MATRIX SOLUTION OF COUPLED
EQUATIONS FOR INELASTIC SCATTERING.
J. CHEM. PHYS.,
V.69, P.3518-31, 1978.
STECHEL, ELLEN B.
WALKER, ROBERT B. (T-12)
LIGHT, JOHN C.

50-106
RADIATIVE LIFETIME AND QUENCHING
OF KRYPTON FLUORIDE.
APPL. PHYS. LETT.,
V.32, P.627-9. 1978.
QUIGLEY, G. P. (AP-3)
HUGHES, WILLIAM M. (Q-8)

50-107
RAPID ACCURATE CALCULATION OF
JWKB PHASE SHIFTS.
J. CHEM. PHYS.,
V.68, P.1841-3. 1978.
COHEN, JAMES S. (T-12)

50-108
RATE COEFFICIENTS AND INELASTIC MOMENTUM
TRANSFER CROSS SECTIONS FOR ELECTRONIC
EXCITATION OF NITROGEN BY ELECTRONS.
J. APPL. PHYS.,
V.49, P.3855-62. 1978.
CARTWRIGHT, DAVID C. (T-12)

50-109
RELATIVISTIC AND NONRELATIVISTIC
EFFECTIVE CORE POTENTIALS FOR XENON.
APPLICATIONS TO XENON FLUORIDE,
XENON AND XENON +.
J. CHEM. PHYS.,
V.68, P.1752-9. 1978.
WADT, WILLARD R. (T-12)
HAY, P. JEFFREY (T-12)
KAHN, LUIS R.

50-110
RELATIVISTIC EFFECTS IN AB INITIO
EFFECTIVE CORE POTENTIALS FOR MOLECULAR
CALCULATIONS. APPLICATIONS TO THE
URANIUM ATOM.
J. CHEM. PHYS.,
V.68, P.2386-97. 1978.
KAHN, LUIS R.
HAY, P. JEFFREY (T-12)
COWAN, ROBERT D. (T-4)

50-111
RESONANT PULSE EXCITATION LEADING
TO IONIZATION.
PHYS. REV.,
V.17A, P.293-9. 1978.
ACKERHALT, JAY R. (T-12)

50-112
ROTATIONALLY AND VIBRATIONALLY INELASTIC
SCATTERING IN THE ROTATIONAL IOS
APPROXIMATION. ULTRASIMPLE CALCULATION
OF TOTAL (DIFFERENTIAL, INTEGRAL AND
TRANSPORT) CROSS SECTIONS FOR
NONSPHERICAL MOLECULES.
J. CHEM. PHYS.,
V.68, P.1585-1601. 1978.
PARKER, GREGORY A.
PACK, RUSSELL T. (T-12)

50-113
SCATTERING THEORY AND EFFECTIVE MEDIUM
APPROXIMATIONS TO HETEROGENEOUS
MATERIALS.

TIC,
1977. 14P. MN (LA-UR-77-2063)
ALSO PUBLISHED IN:
ELECTRICAL TRANSPORT AND OPTICAL
PROPERTIES OF INHOMOGENEOUS MEDIA.
1977. CONF. OHIO STATE UNIV.
PAPERS, P.84-98. J. C. GARLAND, ED.
AIP, 1978. (530.41/E38T)
GUBERNATIS, JAMES E. (T-11)

50-114
SELF - CONSISTENT FIELD ELECTRONIC
STRUCTURE CALCULATIONS FOR COMPRESSED
MAGNESIUM OXIDE.
J. PHYS. CHEM. SOLIDS,
V.39, P.255-7. 1978.
LIBERMAN, DAVID A. (T-4)

50-115
SINGLE PHOTON TRANSITION MOMENTS IN
EXCITED STATES OF SPHERICAL TOP
MOLECULES.
OPT. LETT.,
V.3, P.154-5. 1978.
GALBRAITH, HAROLD W. (T-12)

50-116
SORTING OF A MURINE GRANULOCYTIC
PROGENITOR CELL BY USE OF LASER
LIGHT SCATTERING MEASUREMENTS.
TIC,
1977. 12P. MN (LA-UR-78-953)
VISSER, JAN W. M.
CRAM, L. SCOTT (H-10)
MARTIN, JOHN C. (H-10)
SALZMAN, GARY C. (H-10)
PRICE, BRANDON J. (H-10)

50-117
STUDIES OF THE PH DEPENDENCE OF
CARBON -13 SHIFTS AND CARBON - CARBON
COUPLING CONSTANTS OF (URANIUM
CARBON -13) ASPARTIC AND
-GLUTAMIC ACIDS.
J. AM. CHEM. SOC.,
V.100, P.3723-9. 1978.
LONDON, ROBERT E. (CNC-4)
WALKER, THOMAS E. (CNC-4)
KOLLMAN, VICTOR H. (H-11)
MATWIYOFF, NICHOLAS A. (CNC-4)

50-118
STUDY OF THE NICKEL-59 (TRITON,
PROTON) NICKEL-61 REACTION.
PHYS. REV.,
V.18C, P.2511-19. 1978.
NANN, H.
FLYNN, EDWARD R. (P-7)
HANSON, DAVID L. (P-7)
RAMAN, S.

50-119
STUDY OF USES OF A PROTON
STORAGE RING.
LAST,
1978. 42P. (LA-7490-MS)
NAGLE, DARRAGH E. (MP-DO) COMP.

50-120
SU(2S+1) TIMES ZETA (R) AND
SPIN STATISTICAL WEIGHTS FOR
TETRAHEDRAL XY(4), TRIGONAL
BIPYRAMIDAL XY(5),
OCTAHEDRAL XY(6).
J. CHEM. PHYS.,
V.68, P.1677-82. 1978.
GALBRAITH, HAROLD W. (T-12)

50-121
T-MATRIX FORMULATION OF THE STATISTICAL
MECHANICS OF ELECTRONS AND HOLES IN
SEMICONDUCTORS.
BULL. AM. PHYS. SOC.,
V.23, P.423. 1978.
SILVER, RICHARD N. (T-11)
ALDRICH, CHARLES H. (M-6)

50-122
THEORETICAL PREDICTION OF
VIBRATIONAL ENHANCEMENT FOR
DISSOCIATIVE CHARGE TRANSFER IN THE
IONIZED HELIUM HYDROGEN SYSTEM.
J. CHEM. PHYS.,
V.68, P.13-21. 1978.
PRESTON, RICHARD K. (T-12)
THOMPSON, DONALD L. (CNC-2)
MC LAUGHLIN, DONALD R. (CNC-2)

50-123
THEORETICAL STUDIES OF THE LOW -
LYING ELECTRONIC STATES OF
GALLIUM KRYPTON, INCLUDING
EXTRAPOLATION TO INDIUM KRYPTON
AND THALLIUM KRYPTON.
J. CHEM. PHYS.,
V.69, P.2672-81. 1978.
DUNNING, THOMAS H., JR. (CNC-2)
VALLEY, MARCY
TAYLOR, HOWARD S.

50-124
THEORY OF INELASTIC COLLISIONS BETWEEN
LOW - LYING EXCITED AND GROUND - STATE
NEON ATOMS.
PHYS. REV.,
V.17A, P.1343-56. 1978.
COHEN, JAMES S. (T-12)
COLLINS, LEE A. (T-4)
LANE, NEAL F.

50-125
THEORY OF SPIN - ORDER - DEPENDENT
HOPPING ACTIVATION ENERGY IN
NICKEL OXIDE.
BULL. AM. PHYS. SOC.,
V.23, P.331. 1978.
BRANDOW, BAIRD H. (T-11)

50-126
VARIATIONAL CALCULATIONS OF RESONANT
STATES OF H₂-.
J. PHYS. B,
V.11, P.3645-54. 1978.
BARDSLEY, JAMES N. (T-4)
COHEN, JAMES S. (T-12)

50-127
VELOCITY DEPENDENCE OF ANGULAR
DISTRIBUTIONS IN GAS/SOLID -
SURFACE COLLISIONS. RELATIONSHIP
TO THE INTERACTION POTENTIAL.
J. CHEM. PHYS.,
V.69, P.3458-61. 1978.
BRADY, JOHN W., JR. (CNC-2)
DOLL, JIMMIE D. (CNC-2)
THOMPSON, DONALD L. (CNC-2)

50-128
VIBRATIONAL ANALYSIS OF SULFUR
HEXAFLUORIDE SPECTRA AND
AND IMPLICATIONS FOR COLLISIONLESS
MULTIPLE PHOTON EXCITATION
MODELLING.
BULL. AM. PHYS. SOC.,
V.23, P.1098. 1978.
GALBRAITH, HAROLD W. (T-12)

50-129
VIBRATIONAL ANHARMONICITY CONSTANTS FOR
SULFUR HEXAFLUORIDE. I. A 16 MICRON
DIODE LASER STUDY OF TRANSITIONS IN
THE NU -4 REGION.
J. CHEM. PHYS.,
V.69, P.2117-25. 1978.
PERSON, WILLIS B. (T-12)
KIM, KYU C. (AP-4)

51-1
ADJOINT MONTE CARLO TREATMENT OF
THE EQUATIONS OF RADIATIVE
TRANSFER FOR POLARIZED LIGHT.
J. COMPUT. PHYS. 1978.
V.26, P.119-38. 1978.
CARTER, LELAND L. (TD-6)
HORAK, HENRY G. (J-10)
SANDFORD, MAXWELL T. (J-10)

51-2
ANOMALOUS CEPHEID MASSES.
SKY TELESCOPE,
V.55, P.115-8. 1978.
COX, ARTHUR N. (T-DOT)

51-3
CEPHEID MASSES AND CEPHEID WINDS.
ASTROPHYS. J. 1978.
V.222, P.621-6. 1978.
COX, ARTHUR N. (T-DOT)
MICHAUD, GEORGES
HODSON, STEPHEN W. (T-DOT)

51-4
CHARACTERISTIC ELECTRON VARIATIONS
ACROSS SIMPLE HIGH-SPEED SOLAR
WIND STREAMS.
J. GEOPHYS. RES.,
V.83, P.5285-95. 1978.
FELDMAN, WILLIAM C. (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
GOSLING, JOHN T. (P-4)
LEMONS, DON S. (P-4)

51-5
CHARACTERISTICS OF ENERGETIC
ELECTRONS IN THE VICINITY OF
THE BOUNDARY LAYER AT VELA ORBIT.
J. GEOPHYS. RES.,
V.83, P.2584-96. 1978.
PALMER, IAN D.
HONES, EDWARD W., JR. (P-4)

51-6
CHARACTERISTICS OF LATE - TIME
STRIATIONS OBSERVED DURING
OPERATION STRESS.
TIC
1978. 14P. MN (LA-UR-77-2835)
WOLCOTT, JOHN H. (J-10)
SIMONS, DAVID J.
EASTMAN, TIMOTHY E.
FITZGERALD, THOMAS JOSEPH

51-7
COMMENT ON "ON HOT TENUOUS PLASMAS,
FIREBALLS, AND BOUNDARY LAYERS
IN THE EARTH'S MAGNETOTAIL"
BY L. A. FRANK, K. L. ACKERSON
AND R. P. LEPPING.
J. GEOPHYS. RES.,
V.83, P.1183-6. 1978.
HONES, EDWARD W., JR. (P-4)

51-8
DETECTION OF NUCLEAR EXPLOSIONS
FROM SATELLITES AND SPACE PHYSICS
RESEARCH.
LASL
MINI-REVIEW. 1977. 4P.
(LASL-77-22)
CONNER, JERRY P. (P-4)

51-9
DOUBLE - MODE CEPHEID PERIOD RATIOS
FROM LINEAR AND NONLINEAR THEORY.
ASTROPHYS. J.,
V.220, P.996-1000. 1978.
COX, ARTHUR N. (T-DOT)
HODSON, STEPHEN W. (T-DOT)
KING, DAVID S.

51-10
EFFECTS OF A LONG ENTRANCE APERTURE
UPON THE AZIMUTHAL RESPONSE OF
SPHERICAL SECTION ELECTROSTATIC
ANALYZERS.
REV. SCI. INSTRUM.,
V.49, P.1260-8. 1978.
GOSLING, JOHN T. (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
FELDMAN, WILLIAM C. (P-4)

51-11
EFFECTS OF ROTATION AND CONVECTION ON
DOUBLE MODE AND BUMP CEPHEIDS.
ASTROPHYS. J.,
V.223, P.982-5. 1978.
DEUPREE, ROBERT G. (J-15)

51-12
ELECTRON COOLING BY EXCITATION
OF CARBON DIOXIDE.
J. GEOPHYS. RES.,
V.83, P.1172-4. 1978.
MORRISON, MICHAEL A. (T-12)
GREENE, ARTHUR E. (T-12)

51-13
ELECTRON HEATING WITHIN INTERACTION
ZONES OF SIMPLE HIGH-SPEED SOLAR
WIND STREAMS.

J. GEOPHYS. RES.,
V.83, P.5297-5303, 1978.
FELDMAN, WILLIAM C. (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
GOSLING, JOHN T. (P-4)
LEMONS, DON S. (P-4)

51-14
ENERGETIC PLASMA IONS WITHIN THE
EARTH'S MAGNETOSHEATH.

GEOPHYS. RES. LETT.,
V.5, P.953-5, 1978.
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
GOSLING, JOHN T. (P-4)
PASCHMANN, GOTZ
SCKOPKE, N.

51-15
ENHANCEMENT OF SOLAR CORONA AND
COMET DETAILS.

OPT. ENG.,
V.17, P.661-5, 1978.
MATUSKA, WALTER (J-15)
JANNEY, DONALD H. (M-8)
FARRELL, JOHN ALDEN (AT-2)
KELLER, CHARLES F. (J-15)

51-16
EVOLUTION OF THE SOLAR "CONSTANT".
URANIUM MILL TAILINGS
MANAGEMENT, 1978. SYMP., FORT
COLLINS, CO. PROC., P.111-39.
NEWMAN, MICHAEL J. (T-DOT)

51-17
FINAL REPORT. NEW RESEARCH INITIATIVES
PROGRAM, PROJECT W-219, CHEMISTRY IN
COMET COMAE.

LASL,
1978. 6P. (LA-7096-MS)
HUEBNER, WALTER F. (T-4)

51-18
FLUCTUATIONS OF QUASARS AND
OTHER ASTRONOMICAL SOURCES.
FINAL REPORT ON NEW RESEARCH
INITIATIVES PROGRAM W-210.

LASL,
1978. 28P. (LA-7092-MS)
TERRELL, JAMES (P-4)

51-19
HELIUM ABUNDANCE IN GALACTIC
GLOBULAR CLUSTERS.

PUBL. ASTRON. SOC. PACIFIC,
V.90, P.53-6, 1978.
DEUPREE, ROBERT G. (T-DOT)
EOLL, JOHN G. (TD-2)
HODSON, STEPHEN W. (T-DOT)
WHITAKER, RODNEY W. (J-9)

51-20
HIGH - RESOLUTION ENERGETIC PARTICLE
MEASUREMENTS AT 6.6 RE, 2. HIGH -
ENERGY PROTON DRIFT ECHOES.

J. GEOPHYS. RES.,
V.83, NO.A10, P.4857-62, 1978.
BELIAN, RICHARD D. (P-4)
BAKER, DANIEL N. (P-4)
HIGBIE, PAUL R. (P-4)
HONES, EDWARD W., JR. (P-4)

51-21
HIGH - RESOLUTION ENERGETIC PARTICLE
MEASUREMENTS AT 6.6 RE, 1. ELECTRON
MICROPULSATIONS.

J. GEOPHYS. RES.,
V.83, NO.A10, P.4851-5, 1978.
HIGBIE, PAUL R. (P-4)
BELIAN, RICHARD D. (P-4)
BAKER, DANIEL N. (P-4)

51-22
HIGH - RESOLUTION ENERGETIC PARTICLE
MEASUREMENTS AT 6.6 RE, 3. LOW -
ENERGY ELECTRON ANISOTROPIES AND
SHORT - TERM SUBSTORM PREDICTIONS.

J. GEOPHYS. RES.,
V.83, NO.A10, P.4863-8, 1978.
BAKER, DANIEL N. (P-4)
HIGBIE, PAUL R. (P-4)
HONES, EDWARD W., JR. (P-4)
BELIAN, RICHARD D. (P-4)

51-23
INTERSTELLAR COLONIZATION.
J. BR. INTERPLANET. SOC.,
V.31, P.103-7, 1978.
JONES, ERIC M. (J-9)

51-24
ION - ACOUSTIC - LIKE INSTABILITIES
IN THE SOLAR WIND.
J. GEOPHYS. RES.,
V.83, P.2504-10, 1978.
GARY, S. PETER (CTR-6)

51-25
ISEE-C SOLAR WIND PLASMA EXPERIMENT.
IEEE TRANS. GEOSCI. ELECTRON.,
V.GE-16, P.160-2, 1978.
BAME, SAMUEL J., JR. (P-4)
ASBRIDGE, JOHN R. (P-4)
FELTHAUSER, HARRY E. (P-4)
GLORE, JAMES P. (P-4)
HAWK, H. L.
CHAVEZ, J.

- 51-26
ISEE-1 AND ISEE-2 FAST PLASMA
EXPERIMENT AND THE ISEE-1 SOLAR
WIND EXPERIMENT.
IEEE TRANS. GEOSCI. ELECTRON.,
V. GE-16, P. 216-20. 1978.
BAME, SAMUEL J., JR. (P-4)
ASBRIDGE, JOHN R. (P-4)
FELTHAUSER, HARRY E. (P-4)
GLORE, JAMES P. (P-4)
PASCHMANN, GOTZ
HEMMERICH, P.
LEHMANN, K.
ROSENBAUER, H.
- 51-27
KIMBERLITES ON MARS.
KIMBERLITE CONFERENCE. 1977.
2ND INTERNATIONAL, SANTA FE, NM.
EXTENDED ABSTRACTS, 1 PAGE.
THE CONFERENCE, 1977.
(549/K491 1977 A)
MC GETCHIN, THOMAS R. (G-6)
SMYTH, JOSEPH R. (G-6)
- 51-28
LAGOPEDO - TWO F-REGION IONOSPHERIC
DEPLETION EXPERIMENTS.
TIC,
1977. 5P. MN (LA-UR-77-2743)
PONGRATZ, MORRIS B. (J-10)
SMITH, GORDON M. (J-10)
SUTHERLAND, C. DEXTER (J-10)
ZINN, JOHN (J-10)
- 51-29
LONG TERM VARIATIONS OF SELECTED
SOLAR WIND PROPERTIES. IMP 6, 7
AND 8 RESULTS.
J. GEOPHYS. RES.,
V. 83, NO. A5, P. 2177-89. 1978.
FELDMAN, WILLIAM C. (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
GOSLING, JOHN T. (P-4)
- 51-30
MAGNETOSHEATH DISTORTION OF
PITCH ANGLE DISTRIBUTIONS OF
SOLAR PROTONS.
J. GEOPHYS. RES.,
V. 83, P. 30-8. 1978.
PALMER, IAN D.
HIGBIE, PAUL R. (P-4)
- 51-31
MODEL OF COMET COMAE, I. GAS PHASE
CHEMISTRY IN ONE DIMENSION.
ASTROPHYS. J.,
V. 223, P. 638-54. 1978.
GIGUERE, PAUL T. (T-4)
HUEBNER, WALTER F. (T-4)
- 51-32
MODEL OF THE FORMATION OF ELLIPTICAL
GALAXIES.
ASTROPHYS. AND SPACE SCI.,
V. 54, P. 365-78. 1978.
BROWN, WILBUR K. (TD-7)
- 51-33
OBSERVATIONS OF TWO DISTINCT
POPULATIONS OF BOW SHOCK IONS IN
THE UPSTREAM SOLAR WIND.
GEOPHYS. RES. LETT.,
V. 5, P. 957-60. 1978.
GOSLING, JOHN T. (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
PASCHMANN, GOTZ
SCKOPKE, N.
- 51-34
OBSERVATORY REPORT.
BULL. AM. ASTRON. SOC.,
V. 10, P. 209-17. 1978.
COX, ARTHUR N. (T-DOT)
- 51-35
PHOTOGRAPHS OF THE ORION NEBULA
IN HYDROGEN ALPHA, HYDROGEN BETA
AND HELIUM I LAMBDA 10830.
ASTRON. ASTROPHYS.,
V. 67, P. 435-6. 1978.
GOW, CHARLES E. (J-9)
SANDFORD, MAXWELL T. (J-9)
HONEYCUTT, R. KENT
- 51-36
PHOTOMETRIC STUDY OF THE M51
SYSTEM.
ASTROPHYS. J.
SUPPL. SERIES, V. 38,
P. 147-84. 1978.
BURKHEAD, MARTIN S. (J-15)
- 51-37
PLASMA SHEET PRESSURE ANISOTROPIES.
J. GEOPHYS. RES.,
V. 83, P. 3166-72. 1978.
STILES, GARDINER S.
HONES, EDWARD W., JR. (P-4)
BAME, SAMUEL J., JR. (P-4)
ASBRIDGE, JOHN R. (P-4)
- 51-38
POWER SPECTRUM OF THE SOLAR WIND SPEED
FOR PERIODS GREATER THAN 10 DAYS.
J. GEOPHYS. RES.,
V. 83, P. 4353-7. 1978.
FENIMORE, EDWARD (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
FELDMAN, WILLIAM C. (P-4)
GOSLING, JACK T. (P-4)

51-39
PROCESSES AT THE MAGNETOTAIL
BOUNDARY - COMMENTS ON 'ON HOT
TENUOUS PLASMAS, FIREBALLS, AND
BOUNDARY LAYERS IN THE EARTH'S
MAGNETOTAIL' BY L.A. FRANK,
K.L. ACKERSON, AND R.P. LEPPING.
J. GEOPHYS. RES.,
V.83, NO.A5, P.2216-27. 1978.
HONES, EDWARD W., JR. (P-4)

51-40
PULSATION MODAL BEHAVIOR OF CLASSICAL
CEPHEIDS IN THE HR DIAGRAM.
INTERNATIONAL ASTRONOMICAL UNION.
SYMPOSIUM NO.80. HR DIAGRAM.
1977. SYMPOSIUM, WASHINGTON, D.C.
PROCEEDINGS, P.237-40.
A. G. DAVIS PHILIP, ED.
D. REIDEL, 1978.
COX, ARTHUR N. (T-DOT)
HODSON, STEPHEN W. (T-DOT)

51-41
REMARKABLE EXTENT OF THE
CIRCUMSTELLAR GAS SHELL SURROUNDING
BETELGEUSE.
ASTROPHYS. J.,
V.219, P.532-7. 1978.
BERNAT, A. P.
HONEYCUTT, R. KENT
KEPHART, J. E.
GOW, CHARLES E. (J-9)
SANDFORD, MAXWELL T. (J-9)
LAMBERT, D. L.

51-42
SHOCK - ASSOCIATED ENERGETIC PROTON
EVENTS AT LARGE HELIOCENTRIC DISTANCES.
J. GEOPHYS. RES.,
V.83, NO.A5, P.2037-46. 1978.
PALMER, IAN D. (P-4)
GOSLING, JOHN T. (P-4)

51-43
SOLAR OPACITY AND EQUATION OF STATE.
TIC
1978. 27P. MN (LA-UR-78-196)
HUEBNER, WALTER F. (T-4)

51-44
SOLAR WIND STREAM INTERFACES.
J. GEOPHYS. RES.,
V.83, P.1401-12. 1978.
GOSLING, JOHN T. (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)
FELDMAN, WILLIAM C. (P-4)

51-45
SOME CHARACTERISTICS OF RAPIDLY FLOWING
MAGNETOTAIL PLASMAS - FURTHER COMMENTS
ON 'ON HOT TENUOUS PLASMAS,
FIREBALLS, AND BOUNDARY LAYERS
IN THE EARTH'S MAGNETOTAIL' BY
L.A. FRANK, K.L. ACKERSON, AND
R.P. LEPPING.
J. GEOPHYS. RES.,
V.83, P.3358-64. 1978.
HONES, EDWARD W., JR. (P-4)

51-46
SOME INITIAL SIGNS IN THE PLASMA SHEET
OF SUBSTORM ONSET.
J. GEOMAG. GEOELECTR.,
V.30, P.191. 1978.
HONES, EDWARD W., JR. (P-4)

51-47
SOME OBSERVATIONS OF A SUBSYNOPTIC
SCALE DISTURBANCE.
LASL,
1978. 12P. (LA-7394-MS)
BARR, SUMNER (G-8)
CLEMENTS, WILLIAM E. (G-8)
ARCHULETA, JOHN A. (H-8)

51-48
SUPERNOVA RADIO PULSE SEARCHES
AND POSSIBLE IMPROVEMENTS IN
SENSITIVITY.
ASTROPHYS. J.,
V.220, P.1076-86. 1978.
MEIKLE, W. PETER S.
COLGATE, STIRLING A. (T-DOT)

51-49
THEORETICAL LIGHT AND VELOCITY
CURVES FOR CEPHEID VARIABLES.
LASL,
1978. 13P. (LA-7598-MS)
ADAMS, THOMAS F. (J-15)
DAVIS, CECIL G. (J-15)
KELLER, CHARLES F. (J-15)

51-50
THEORETICAL MODELS OF 10-DAY
CEPHEIDS.
ASTROPHYS. J.,
V.221, P.929-36. 1978.
DAVIS, CECIL G. (J-15)
DAVISON, DAVID K.

51-51
THREE-DIMENSIONAL DYNAMICS OF
PROTOSTELLAR EVOLUTION.
ASTROPHYS. J.,
V.225, P.1005-20. 1978.
COOK, THOMAS L. (J-9)
HARLOW, FRANCIS H. (T-3)

51-52
TORDO I POLAR CUSP BARIUM PLASMA
INJECTION EXPERIMENT.
J. GEOPHYS. RES.,
V.83, P.1565-75. 1978.
WESCOTT, EUGENE M.
STENBAEK-NIELSEN, H. C.
DAVIS, T. NEIL
JEFFRIES, ROBERT A. (J-10)
ROACH, WILLIAM H. (J-12)

51-53
TRIPLE MODE CEPHEID MASSES.
ASTROPHYS. J.,
V.224, P.607-3. 1978.
COX, ARTHUR N. (T-DOT)
KING, DAVID S.
HODSON, STEPHEN W. (T-DOT)

51-54
UNUSUAL ASPECT OF SOLAR WIND
SPEED VARIATIONS DURING SOLAR
CYCLE 20.
J. GEOPHYS. RES.,
V.82, P.3311-4. 1977.
GOSLING, JOHN T. (P-4)
ASBRIDGE, JOHN R. (P-4)
BAME, SAMUEL J., JR. (P-4)

51-55
VIBRATIONAL POPULATIONS OF THE
EXCITED STATES OF NITROGEN
UNDER AURORAL CONDITIONS.
J. GEOPHYS. RES.,
V.83, P.517-31. 1978.
CARTWRIGHT, DAVID C. (T-12)

52-1

ALGORITHM FOR THE DISCRETE REZONING
OF LAGRANGIAN MESHES.

J. COMPUT. PHYS.

V.26, P.277-84. 1978.

HORAK, HENRY G. (J-10)

JONES, ERIC, M. (J-10)

KODIS, JOHN W. (J-10)

SANDFORD, MAXWELL T. (J-10)

52-2

ANALYSIS OF A RESONANT - CAVITY
MEASUREMENT OF THE VELOCITY OF LIGHT.

STANFORD UNIV., CALIF.

MICROWAVE LAB. 1956. 123P.

M.L. REPORT NO.343. (AFOSR TN-56-325)

JANNEY, DONALD H.

52-3

ANOMALOUS RESISTIVITY MAXIMA
IN SOME MAGNETIC SYSTEMS.

SOLID STATE COMMUN.

V.26, P.831-4. 1978.

TING, C. S.

HUANG, CHAO-YUAN (Q-10)

52-4

BREAKUP OF AN ACCELERATED SHELL
OWING TO RAYLEIGH - TAYLOR
INSTABILITY.

LASL,

1978. 13P. (LA-7291-MS)

SUYDAM, BERGEN R. (T-7)

52-5

BROADENING OF A SPECTRUM LINE BY
FINITE SPECTROMETER RESOLUTION.

LASL,

1978. 73P. (LA-7401)

ENGLEMAN, ROLF, JR. (CMB-1)

52-6

CASE OF THE PHANTOM PHASES IN
SOLID HYDROGEN.

J. LOW TEMP. PHYS.

V.31, P.423-8. 1978.

MILLS, ROBERT L. (Q-10)

52-7

CATALOG OF TWO-DIMENSIONAL VORTEX
PATTERNS.

LASL,

1978. 40P. (LA-7384-MS)

CAMPBELL, LAURENCE J. (Q-10)

ZIFF, ROBERT M. (Q-10)

52-8

CHEMICAL TRACERS IN HYBLA GOLD
WORKING ROOM. FINAL REPORT.

LASL,

1978. 12P. (LA-7097-MS)

KILLIAN, BARBARA GERMAIN (J-9)

MC QUEEN, JOHN H. (J-DO-T)

52-9

COST OF SPLITTING IN MONTE CARLO
TRANSPORT.

LASL,

1978. 9P. (LA-7189-MS)

EVERETT, CORNELIUS J. (TD-6)

CASHWELL, EDMOND D. (TD-6)

52-10

DERIVED THERMODYNAMIC PROPERTIES
FOR FLUID N-T₂ IN THE RANGE 75-
300 K AND 2-20 KBAR.

LASL,

1978. 14P. (LA-7071-MS)

LIEBENBERG, DONALD H. (Q-10)

MILLS, ROBERT L. (CMB-5)

BRONSON, JOHN C. (Q-10)

52-11

DIFFUSION COEFFICIENT DETERMINATION
USING A SIZE VARIATION TECHNIQUE.

J. APPL. PHYS.

V.49, P.4583-5. 1978.

STARK, WALTER A., JR. (CMB-3)

52-12

DIRECT MEASUREMENT OF CESTUM
ABSORPTION ISOBARS ON
POLYCRYSTALLINE TANTALUM.

J. APPL. PHYS.

V.49, P.238-44. 1978.

COLLIER, ROBERT K. (Q-11)

BACKUS, C. E.

JACOBSON, D. L.

52-13

DISTRIBUTED APERTURE EFFECT
IN LASER RODS WITH NEGATIVE LENSES.

APPL. OPT.

V.17, P.1537-40. 1978.

BARNES, NORMAN P. (AP-2)

SCALISE, STANLEY J.

52-14

EFFECT OF ELECTRICAL STATE ON
MECHANICAL AND ELECTRICAL
RESPONSE OF A FERROELECTRIC
CERAMIC PZT 95/5 TO IMPACT
LOADING.

J. APPL. PHYS.

V.49, P.2494-8. 1978.

DICK, JERRY JOEL (M-3)

VORTHMAN, J. E.

52-15
ELECTRON TRANSPORT CODE
THEORETICAL BASIS.

LASL,
1978. 8P. (LA-7227-MS)
DUBI, ARIE (T-1)
HOROWITZ, Y. S.

52-16
EPR PARADOX REVISITED.

PHYS. REP.,
V. 43, P. 499-508. 1978.
CANTRELL, CYRUS D., III (L-DOT)
SCULLY, MARLAN O. (L-DO)

52-17
EQUATION OF STATE OF FLUID
TRITIUM DEDUCED FROM P-V-T AND
ULTRASONIC-VELOCITY MEASUREMENTS
ON HYDROGEN AND DEUTERIUM
TO 20 KBAR.

J. APPL. PHYS.,
V. 49, P. 5502-6. 1978.
MILLS, ROBERT L. (Q-10)
LIEBENBERG, DONALD H. (Q-10)
BRONSON, JOHN C. (Q-10)

52-18
EQUATION OF STATE OF FLUID N-D2 FROM
P-V-T AND ULTRASONIC VELOCITY
MEASUREMENTS TO 20 KBAR.

J. CHEM. PHYS.,
V. 68, P. 2663-8. 1978.
MILLS, ROBERT L. (Q-10)
LIEBENBERG, DONALD H. (Q-10)
BRONSON, JOHN C. (Q-10)

52-19
EXACT WAVE - FUNCTION
NORMALIZATION CONSTANTS FOR THE
 $B \tanh Z - U/(\cosh Z)$ -SQUARED
POTENTIAL AND POSCHL-TELLER
POTENTIALS.

PHYS. REV.,
V. 17A, P. 1273-83. 1978.
NIETO, MICHAEL MARTIN (T-8)

52-20
FINITE DIFFERENCE METHODS IN
MULTI-DIMENSIONAL TWO - PHASE
FLOW.

TIC,
1977. 19P. MN (LA-UR-77-2378)
TRAVIS, JOHN R. (T-3)

52-21
GEMINATE RECOMBINATION OF ALPHA -
PARTICLE EXCITED CARRIERS IN
LIQUID ARGON.

PHYS. REV. LETT.,
V. 40, P. 407-9. 1978.
GRUHN, CHARLES R. (E-10)
EDMISTON, MICHAEL (E-10)

52-22
GENERAL ANALYSIS AND ILLUSTRATIVE
EXAMPLES OF FREE DRAINAGE OF NEWTONIAN
AND NON-NEWTONIAN FILMS WITH TIME -
DEPENDENT RHEOLOGICAL PARAMETERS.

TIC,
1977. 25P. MN (LA-UR-77-2014)
PENDERGRASS, JOHN H. (L-5)

52-23
HIGH - PRESSURE GASES IN
DIAMOND CELLS.

PHYS. LETT.,
V. 67A, P. 162-4. 1978.
LIEBENBERG, DONALD H. (Q-10)
MILLS, ROBERT L. (Q-10)
BRONSON, JOHN C. (Q-10)
SCHMIDT, LEROY C. (SD-5)

52-24
HIGH BANDWIDTH RADIATION DIAGNOSTICS
WITH SCINTILLATORS AND FIBER
OPTICS.

LASER AND ELECTROOPTICAL SYSTEMS.
1978. OSA/IEEE CONFERENCE,
SAN DIEGO, CA. DIGEST OF
TECHNICAL PAPERS, NO. TUGG4,
P. 20. OSA, 1978.
(621.36/L343E 1978)
GOLOB, JOHN E. (E-3)
LIEBER, ALBERT (J-14)
LOONEY, LARRY D. (J-14)
LYONS, PETER B. (J-14)
FRANKS, L.
LUTZ, S.
NELSON, M. A.
ROBICHAUD, R. E.

52-25
HIGH ENERGY NEUTRON DOSIMETRY
FOR THE FUSION PROGRAM.

REACTOR DOSIMETRY. 1977.
(OCT.) ASTM-EURATOM SYMP. 2ND,
PALO ALTO. PROC. DOSIMETRY
METHODS FOR FUELS, CLADDING,
AND STRUCTURAL MATERIALS.
P. 1059-68. (NUREG/CP-0004 V.3)
BARR, DONALD W. (CNC-11)
NORRIS, ANDREW E. (CNC-11)

52-26
HOMOGENEOUS NUCLEATION - A
PROBLEM IN NONEQUILIBRIUM QUANTUM
STATISTICAL MECHANICS.

LASL,
1978. 277P. THESIS, UNIV. OF NM,
ALBUQUERQUE, 1978. (LA-7441-T)
LARSON, ALVIN R. (L-5)

52-27
HYDRODYNAMIC APPROACH TO ELECTRON HOLE
DROPLET NUCLEATION AND STABILITY.

PHYS. REV.,
V. 17B, P. 3955-71. 1978.
SILVER, RICHARD N. (T-11)

52-28
HYDRODYNAMIC MODEL FOR ELECTRON
HOLE DROPLETS.
SOLID STATE COMMUN.,
V.25, P.891-4. 1978.
SILVER, RICHARD N. (T-11)

52-29
INITIAL VALUE PROBLEM FOR RAYLEIGH -
TAYLOR INSTABILITY OF VISCOUS FLUIDS.
PHYS. FLUIDS,
V.21, P.1674-87. 1978.
MENIKOFF, RALPH (T-DOT)
MJOLNESS, RAYMOND C. (T-3)
SHARP, DAVID H. (T-8)
ZEMACH, CHARLES (T-DOT)
DOYLE, B. J.

52-30
INTERACTION OF EXPLOSIVE - DRIVEN
AIR SHOCKS WITH WATER AND PLEXIGLAS.
LASL,
1978. 22P. (LA-7454)
SLAUGHTER, JILTON D. (T-8)
OLINGER, BARTON W. (M-6)
KERSHNER, JAMES D. (T-14)
MADER, CHARLES L. (T-14)
BOWMAN, ALLEN L. (T-14)

52-31
INVESTIGATION OF HYPERSCALING IN THE
CONTINUOUS SPIN ISING MODEL.
BULL. AM. PHYS. SOC.,
V.23, P.341. 1978.
BAKER, GEORGE A., JR. (T-11)
KINCAID, JOHN M. (T-11)

52-32
JET TARGET INTENSE NEUTRON SOURCE.
TIC,
1977. 6P. MN (LA-UR-77-2398)
ALSO PUBLISHED IN:
ENGINEERING PROBLEMS OF FUSION
RESEARCH. 1977. SYMP. 7TH,
KNOXVILLE, TN. PROC., V.2,
P.1435-9. M.S. LUBELL, ED.
IEEE, 1977. (537/S989EN 1977)
MEIER, KARL L. (P-14)

52-33
LASL NIOBIUM(3)GERMANIUM
CONDUCTOR DEVELOPMENT, OCTOBER 1-
DECEMBER 31, 1977.

LASL,
1978. 12P. (LA-7204-PR)
MALEY, MARTIN P. (Q-10) COMP.

52-34
LASL NIOBIUM(3)GERMANIUM CONDUCTOR
DEVELOPMENT, JANUARY 1-
MARCH 31, 1978.

LASL,
1978. 22P. (LA-7356-PR)
MALEY, MARTIN P. (Q-10) COMP.

52-35
LIMB-DARKENING OPACITY EXPERIMENT
USING A LASER-HEATED PLASMA.
LASL,
1978. 13P. (LA-7484-MS)
HOFFMAN, NELSON M. (J-15)
MILLER, L. W. (J-15)
MACK, JOSEPH M., JR. (J-15)

52-36
LIMITS OF VALIDITY FOR THE
VAILOV ENERGY STRAGGLING
CALCULATION.
COMPUT. PHYS. COMMUN.,
V.13, P.317-21. 1978.
JARMIE, NELSON (P-9)
PINDZOLA, MICHAEL S.
BICHSEL, H.

52-37
LOW TEMPERATURE PHYSICS AND
ENGINEERING QUARTERLY PROGRESS
OCTOBER 1-DECEMBER 31, 1977.
LASL,
1978. 50P. (LA-7249-PR)
KELLER, WILLIAM E. (Q-10) COMP.

52-38
LOW TEMPERATURE PHYSICS AND
ENGINEERING QUARTERLY PROGRESS
REPORT, JULY 1-MARCH 31, 1978.
LASL,
1978. 43P. (LA-7374-PR)
KELLER, WILLIAM E. (Q-10) COMP.

52-39
LOW TEMPERATURE PHYSICS AND
ENGINEERING QUARTERLY PROGRESS
REPORT, APRIL 1-JUNE 30, 1978.
LASL,
1978. 49P. (LA-7448-PR)
KELLER, WILLIAM E. (Q-10) COMP.

52-40
LOW TEMPERATURE PHYSICS AND ENGINEERING
QUARTERLY PROGRESS REPORT, JULY 1 -
SEPTEMBER 30, 1977.
LASL,
1978. 35P. (LA-7134-PR)
KELLER, WILLIAM E. (Q-10) COMP.

52-41
MARGINAL DENSITIES OF RADially
SYMMETRIC DENSITIES IN TWO AND
THREE DIMENSIONS.
LASL,
1978. 18P. (LA-7283-MS)
EVERETT, CORNELIUS J. (TD-6)
CASHWELL, EDMOND D. (TD-6)

52-42
MOMENT GENERATED RADIATIVE
TRANSFER FUNCTIONS FOR RELATIVISTIC
MAXWELLIAN ELECTRONS.
J. QUANT. SPECTROSC. RADIAT. TRANSFER
V.19, P.163-8. 1978.
WIENKE, BRUCE R. (T-1)

52-43
MUTUAL (ISOTHERMAL) DIFFUSION
IN BINARY HARD SPHERE MIXTURES.
THE EFFECTS OF THE ONSAGER
RECIPROCITY RELATIONS.
PHYS. LETT.
V.64A, P.429-32. 1978.
KINCAID, JOHN M. (T-11)

52-44
NEW METHOD OF SAMPLING THE KLEIN -
NISHINA PROBABILITY DISTRIBUTION
FOR ALL INCIDENT PHOTON ENERGIES
ABOVE 1 KEV (A REVISED COMPLETE
ACCOUNT).
LASL,
1978. 13P. (LA-7188-MS)
EVERETT, CORNELIUS J. (TD-6)
CASHWELL, EDMOND D. (TD-6)

52-45
NOTE ON THE ROUNDOFF ERROR IN THE
NUMEROV ALGORITHM.
J. COMPUT. PHYS.
V.28, P.426-32. 1978.
FRIAR, JAMES L. (T-5)

52-46
NUMBER OF SOLUTIONS OF A LINEAR
INEQUALITY (A KNAPSACK PROBLEM).
LASL,
1978. 8P. (LA-7287-MS)
EVERETT, CORNELIUS J. (TD-6)
STEIN, PAUL R. (T-7)

52-47
NUMERICAL CALCULATION OF HIGH -
SPEED MULTIPHASE FLOW.
BULL. AM. PHYS. SOC.,
V.23, P.1006. 1978.
COOK, THOMAS L. (J-15)
DEMUTH, RUTH B. (T-3)
HARLOW, FRANCIS H. (T-3)

52-48
NUMERICAL SIMULATION OF HYDRODYNAMIC
IMPACT LOADS ON CYLINDERS.
NUCL. SCI. ENG.
V.68, P.143-8. 1978.
NICHOLS, BILL D. (T-3)
HIRT, CYRIL W., JR. (T-3)

52-49
OBSERVATION OF VARIABLE MODES OF
HEAT TRANSFER TO LIQUID HELIUM
DURING DESTRUCTION OF
SUPERCONDUCTIVITY BY CURRENT.
BULL. AM. PHYS. SOC.,
V.23, P.416. 1978.
WEINSTOCK, H.
OVERTON, WILLIAM C., JR. (Q-10)

52-50
OBSERVATION OF WIDE N-S
INTERFACES DURING DESTRUCTION
OF SUPERCONDUCTIVITY BY
CURRENT.
BULL. AM. PHYS. SOC.,
V.23, P.358. 1978.
OVERTON, WILLIAM C., JR. (Q-10)
BARTLETT, ROGER J. (Q-10)
CARLSON, RICHARD V. (Q-10)
WEINSTOCK, H.

52-51
ON THE EXISTENCE OF COMPLEX RELAXATION
LENGTHS IN AN ABSORBING MEDIUM.
TRANSP. THEORY AND STAT.
PHYS., V.7, P.25-32.
1978.
LARSEN, EDWARD W. (T-1)

52-52
PERFORMANCE CHARACTERISTIC OF
DISCHARGE EXCITED EXCIMER
LASERS.
TIC,
1977. 12P. MN (LA-UR-77-328)
SZE, ROBERT C. (AP-2)
SCOTT, PETER B. (AP-2)
LOREE, THOMAS R. (AP-2)

52-53
POLARIZATION POTENTIALS AND
ELEMENTARY EXCITATIONS IN LIQUID
HELIUM -3.
J. LOW TEMP. PHYS.,
V.32, P.689-715. 1978.
ALDRICH, CHARLES H. (M-6)
PINES, DAVID

52-54
POLARIZATION POTENTIALS AND ELEMENTARY
EXCITATIONS IN LIQUID HELIUM -3.
BULL. AM. PHYS. SOC.,
V.23, P.316-7. 1978.
PINES, DAVID
ALDRICH, CHARLES H. (M-6)

52-55
POSITION SENSITIVE GAS
PROPORTIONAL CHAMBERS.
IEEE TRANS. NUCL. SCI.,
V.NS-25, P.141-3. 1978.
MORRIS, CHRISTOPHER L. (MP-10)
THIESSEN, HENRY A. (MP-10)
HOFFMANN, G. W. (MP-10)

52-56
PREDICTION OF MONTE CARLO ERRORS BY A
THEORY GENERALIZED TO TREAT TRACK
LENGTH ESTIMATORS.

NUCL. SCI. ENG.,
V.65, P.273-81, 1978.
BOOTH, THOMAS E. (TD-9)
AMSTER, HARVEY J.

52-57
PREIONIZATION OF PULSED GAS
LASERS BY RADIOACTIVE SOURCE.

IEEE J. QUANTUM ELECTRON.,
V.QE-14, P.75-6, 1978.
BIGIO, IRVING J. (L-2)

52-58
RBEQER - A FORTRAN PROGRAM FOR THE
COMPUTATION OF RBES, QERS, SURVIVAL
RATIOS, AND THE EFFECTS OF FRACTIONATION
USING THE THEORY OF DUAL RADIATION
ACTION.

LASL,
1978. 19P. (LA-7196-MS)
ZAIDER, MARCO (MP-3)
DICELLO, JOHN F., JR. (MP-3)

52-59
RECENT DEVELOPMENTS IN THE SESAME
EQUATION - OF - STATE LIBRARY.

LASL,
1978. 19P. (LA-7130)
BENNETT, BARD I., JR. (T-4)
JOHNSON, JAMES D. (T-4)
KERLEY, GERALD I. (T-4)
ROOD, GERALD T. (T-4)

52-60
RELATION IN THE ISING MODEL OF THE
LEE-YANG BRANCH POINT AND CRITICAL
BEHAVIOR.

J. APPL. PHYS.,
V.49, P.1360-2, 1978.
BAKER, GEORGE A., JR. (T-11)
MOUSSA, PIERRE

52-61
SHEAR-LAYER INSTABILITY IN
CYLINDRICAL IMPLOSIONS OF
ROTATING FLUIDS.

LASL,
1978. 19P. (LA-7432-MS)
MJOLSNES, RAYMOND C. (T-3)
RUPPEL, HANS M. (T-3)

52-62
SIMPLE DERIVATION OF THE DIFFUSION
EQUATION FROM THE FOKKER-PLANCK
EQUATION USING PERTURBATION
METHODS.

AM. J. PHYS.,
V.46, P.392-3, 1978.
D'ARRUDA, JOSE
LARSEN, EDWARD W. (T-1)

52-63
SIMULTANEOUS MEASUREMENT IN FLUID
N-D (SUB 2) OF P, V, T AND SOUND
VELOCITY TO 20 KBAR.

TIC,
1977. 16P. MN (LA-UR-77-739)
ALSO PUBLISHED IN:
THERMOPHYSICAL PROPERTIES.
1977. 7TH SYMPOSIUM, GAITHERSBURG,
MD. PROC., P.503-6. A. CEZAIRLIYAN,
ED. ASME, 1977.
LIEBENBERG, DONALD H. (Q-10)
MILLS, ROBERT L. (Q-10)
BRONSON, JOHN C. (Q-10)

52-64
STRUCTURE FACTOR OF A ONE - DIMENSIONAL
SHOULDERED HARD - SPHERE FLUID.

PHYS. LETT.,
V.65A, P.131-4, 1978.
KINCAID, JOHN M. (T-11)
STELL, GEORGE

52-65
STUDIES OF LASER DRIVEN SHOCK
WAVES IN ALUMINUM.

PHYS. REV. LETT.,
V.40, P.1391-4, 1978.
VEESER, LYNN R. (P-3)
SOLEM, JOHNDALE C. (P-3)

52-66
SUPERFLUID DISPERSIONS. PHASE 1 -
PRELIMINARY STUDY, OCTOBER 1976-
SEPTEMBER 1977.

LASL,
1978. 43P. (LA-7192-PR)
CAMPBELL, LAURENCE J. (Q-10)
DISATNIK, Y. (Q-10)
ZIFF, ROBERT M. (Q-10)

52-67
THEORETICAL ASSESSMENT OF RADIATION
DAMAGE EFFECTS IN A PROPOSED
GAMMA RAY LASER SYSTEM.

LASL,
1978. 89P. THESIS,
RENNSELAER POLYTECHNIC INST., 1977.
(LA-7099-T)
SCHWENN, HAROLD R. (P-3)

52-68
THEORY OF AC AND DC ELECTRIC
CONDUCTIVITY BY NONINTERACTING
ELECTRONS IN CORRELATED ARRAYS
OF FIXED SCATTERERS.

PHYS. REV.,
V.17B, P.598-606, 1978.
VISSCHER, WILLIAM M. (T-11)

52-69
THREE - DIMENSIONAL SHOCK - CHANGE
RELATIONS FOR REACTIVE FLUIDS.

LASL,
1978. 23P. (LA-7253)
RABIE, RONALD L. (WX-7)
WACKERLE, JERRY D. (WX-7)

52-70
TIME DEPENDENCE OF THE COMPTON
CURRENT AND ENERGY DEPOSITION FROM
SCATTERED GAMMA RAYS.

LASL,
1978. 14P. (LA-7386-MS)
MALIK, JOHN S. (J-DOT)
CASHWELL, EDMOND D. (TD-6)
SCHRANDT, ROBERT G. (TD-6)

52-71
VNAP - A COMPUTER PROGRAM FOR
COMPUTATION OF TWO-DIMENSIONAL,
TIME-DEPENDENT COMPRESSIBLE,
VISCOUS, INTERNAL FLOW.

LASL,
1978. 172P. (LA-7326)
CLINE, MICHAEL C. (T-3)

52-72
WAVENUMBER CALIBRATION OF TUNABLE
DIODE LASERS USING ETALONS.

APPL. OPT.
V. 17, P. 851-2. 1978.
FLICKER, HERBERT J. (AP-DO)
ALDRIDGE, JACK P. (AP-3)
FILIP, HENRY (AP-3)
NERESON, NORRIS G. (AP-3)
REISFELD, MARTIN J. (AP-3)
WEBER, WILLES H.

53-1
AMPLITUDE ANALYSIS OF PION-NUCLEUS
SCATTERING.

PHYS. REV.
V.18C, P.2782-4, 1978.
GIBBS, WILLIAM R. (T-5)
GIBSON, BENJAMIN F. (T-5)
STEPHENSON, GERARD J., JR. (T-5)

53-2
ANALOG STATES, NUCLEAR.
MCGRAW-HILL ENCYCLOPEDIA OF
SCIENCE AND TECHNOLOGY. 4TH ED. V.1,
P.406B-406D. MCGRAW-HILL, 1977.
(RE 503/M147E4)
STEIN, NELSON (P-9)

53-3
ANALYSIS OF ELASTIC SCATTERING
OF 0.8 GEV POLARIZED PROTONS FROM
TIN -116 AND TIN -124.

PHYS. LETT.
V.76B, P.383-7, 1978.
HOFFMANN, G. W. (MP-10)
BLANPIED, GARY S.
COKER, WILLIAM R.
LILJESTRAND, R.
RAY, LANDON (T-5)
SPENCER, JAMES E. (MP-4)
THIESSEN, HENRY A. (MP-10)
HINTZ, N. M.
OOTHOUT, M. A.
BAUER, T. S.
IGO, G.
PAULETTA, G.
SOUKUP, J.
WHITTEN, C. A., JR.
NANN, H.
SETH, KAMAL K.
GLASHAUSSER, C.
MC DANIELS, DAVID K.
TINSLEY, J.
VARGHESE, PHILIP

53-4
ANALYSIS OF 0.8 GEV POLARIZED
PROTON ELASTIC SCATTERING FROM
LEAD -208, ZIRCONIUM -90, NICKEL -58
AND CARBON -12.

PHYS. REV.
V.18C, P.1756-60, 1978.
RAY, LANDON (T-2)
HOFFMANN, G. W. (MP-10)
BLANPIED, GARY S. (MP-10)
COKER, WILLIAM R.
LILJESTRAND, R. (MP-10)

53-5
ANALYZING POWER IN PROTON NUCLEUS
ELASTIC SCATTERING AT 0.8 GEV.

PHYS. REV. LETT.
V.40, P.1256-9, 1978.
HOFFMANN, G. W. (MP-10)
BLANPIED, GARY S. (MP-10)
COKER, WILLIAM R.
LILJESTRAND, R. (MP-10)
HINTZ, N. M.
OOTHOUT, M. A.
BAUER, T. S.
IGO, G.
PAULETTA, G.
SOUKUP, J.
WHITTEN, C. A., JR.
MADLAND, DAVID G. (T-2)
PRATT, JOHN C. (MP-10)
RAY, LANDON (T-5)
SPENCER, JAMES E. (MP-10)
THIESSEN, HENRY A. (MP-10)
NANN, H.
SETH, KAMAL K.
GLASHAUSSER, C.
MC DANIELS, DAVID K.
TINSLEY, J.
VARGHESE, PHILIP

53-6
ANALYZING POWERS FOR D+D REACTIONS
FROM 13.39 TO 17.00 MEV.

LASL
1978. 10P. (LA-7545-MS)
BROWN, RONALD E. (P-7)
CORRELL, FRANCIS D. (P-7)
HAGLUND, R. F., JR. (P-9)
HARDEKOPF, ROBERT A. (P-7)
JARMIE, NELSON (P-7)
OHLSEN, GERALD G. (P-7)
SCHMELZBACH, PIERRE

53-7
APPLICATION OF A LIBRARY OF
PROCESSED ENDF/B-IV FISSION - PRODUCT
AGGREGATE DECAY DATA IN THE
CALCULATION OF DECAY - ENERGY SPECTRA.

LASL
1978. 114P. (LA-7483-MS)
LABAUVE, RAPHAEL J. (T-2)
ENGLAND, TALMADGE R. (T-2)
GEORGE, DENISE C. (T-2)
STAMATELATOS, MICHAEL G.

53-8
APPLIED NUCLEAR DATA RESEARCH
AND DEVELOPMENT, APRIL 1 - JUNE 30,
1978.

LASL
1978. 45P. (LA-7482-PR)
BAXMAN, CLAIRE I. (T-2) COMP.
YOUNG, PHILLIP G., JR. (T-2) COMP.

53-9
APPLIED NUCLEAR DATA RESEARCH AND
DEVELOPMENT, OCTOBER 1-
DECEMBER 31, 1977.
LASL,
1978. 50P. (LA-7200-PR)
BAXMAN, CLAIRE I. (T-2) COMP.
YOUNG, PHILLIP G., JR. (T-2) COMP.

53-10
APPLIED NUCLEAR DATA RESEARCH AND
DEVELOPMENT, JANUARY 1 - MARCH 31, 1978.
LASL,
1978. 28P. (LA-7301-PR)
BAXMAN, CLAIRE I. (T-2) COMP.
YOUNG, PHILLIP G., JR. (T-2) COMP.

53-11
BEAM PROFILE MONITOR.
LASL,
1978. 3P. AND PLATES.
(LA-7142)
KRAUSSE, GEORGE J., III (MP-4)
GRAM, PETER A. M. (MP-4)

53-12
BISMUTH -210M (DEUTERON, PROTON)
BISMUTH -211 REACTION AT 20 MEV.
PHYS. REV.
V.18C, P.1223-7. 1978.
HANSEN, OLE
COFFIN, J. P.
FLYNN, EDWARD R. (P-9)
STEIN, NELSON (P-9)
SHELLINE, RAYMOND K.

53-13
CALCULATION OF NUCLEAR LEVEL
DENSITIES FOR IRON -56, COBALT -59,
NICKEL -60, COPPER -61, NICKEL -62,
COPPER -63, AND COPPER -65.
NUCL. SCI. ENG.,
V.66, P.334-48. 1978.
FORD, GEORGE P. (CNC-11)

53-14
CALCULATION OF RADIATIVE SINGLE
CHARGE TRANSFER CROSS SECTIONS FOR
COLLISIONS OF MOLECULAR HELIUM ION 2+
WITH HELIUM AT LOW ENERGY.
PHYS. REV.
V.18A, P.1004-8. 1978.
COHEN, JAMES S. (T-12)
BARDSELY, JAMES N. (T-4)

53-15
CALIBRATION OF A DETECTOR FOR PULSED
NEUTRON SOURCES.
LASL,
1978. 8P. (LA-7022-MS)
VEESER, LYNN R. (P-3)
HEMMENDINGER, ARTHUR (P-3)
SHUNK, EDWARD R. (P-3)

53-16
CARBON -14 (TRITON, PROTON)
CARBON -16 REACTION AT 23 MEV.
PHYS. REV.
V.17C, P.1919-23. 1978.
SERCELY, R. R.
PETERSON, R. J.
FLYNN, EDWARD R. (P-7)

53-17
CHARACTERISTICS, STABILITY, AND
SHORT-WAVELENGTH PHENOMENA IN
TWO-PHASE FLOW EQUATION SYSTEMS.
NUCL. SCI. ENG.,
V.66, P.93-102. 1978.
RAMSHAW, JOHN D. (T-3)
TRAPP, JOHN A.

53-18
CHARGE AND DOUBLE CHARGE
EXCHANGE IN PION-NUCLEUS
SCATTERING.
HIGH ENERGY PHYSICS AND NUCLEAR
STRUCTURE. 1977. INTERNATIONAL
CONFERENCE. 7TH, ZURICH. PROC.,
P.153-73. M. LOCHER, ED.
BIRKHAUSER VERLAG, BASEL, 1978.
(539.7/H638E 7TH)
SPENCER, JAMES E. (MP-4)

53-19
CHARGE ASYMMETRY IN HELIUM THREE -
HYDROGEN THREE AND THE NEUTRON -
PROTON MASS DIFFERENCE.
PHYS. REV.
V.17C, P.1456-60. 1978.
FRIAR, JAMES L. (T-5)
GIBSON, BENJAMIN F. (T-5)

53-20
COMPARISON OF DISLOCATION PINNING BY
NEUTRONS AND ELECTRONS.
BULL. AM. PHYS. SOC.,
V.23, P.289. 1978.
GOLDSTONE, JOYCE A. (CMB-8)
PARKIN, DON M. (CMB-8)
SIMPSON, H. MITCHELL

53-21
CORRELATIONS AND SELF - CONSISTENCY IN
PION SCATTERING. (II)
NUCL. PHYS.,
V.305A, P.461-84. 1978.
JOHNSON, MIKKEL (MP-DO)
KEISTER, B. D. (MP-DO)

53-22
COULOMB ENERGIES IN S-SHELL NUCLEI
AND HYPERNUCLEI.
PHYS. REV.
V.18C, P.908-13. 1978.
FRIAR, JAMES L. (T-5)
GIBSON, BENJAMIN F. (T-5)

53-23
COUPLED - CHANNELS ANALYSIS OF
INELASTIC PROTON SCATTERING FROM
CARBON -12 AT 0.8 GEV.
PHYS. REV. LETT.
V.40, P.1547-9. 1978.
RAY, L. (T-5)
BLANPIED, GARY S. (MP-10)
COKER, WILLIAM R.
LILJESTRAND, R. (MP-10)
HOFFMANN, G. W. (MP-10)

53-24
CROSS SECTIONS FOR GAMMA - RAY
PRODUCTION BY 14-MEV NEUTRONS.
NUCL. SCI. ENG.
V.65, P.49-64. 1978.
DRAKE, DARRELL M. (P-3)
ARTHUR, EDWARD D. (T-2)
SILBERT, MYRON G. (P-3)

53-25
DEEP INELASTIC PION - INDUCED
NUCLEAR REACTIONS IN THE ISOBAR
MODEL.
PHYS. REV.
V.17C, P.195-214. 1978.
GINOCCHIO, JOSEPH N. (T-5)

53-26
DETECTION OF THE NEW ISOTOPES, 12.3-
MINUTE CALIFORNIUM -256 AND 43-
MINUTE MENDELEVIVM -258.
TIC
1977. 35P. MN (LA-UR-77-2901)
HOFFMAN, DARLEANE C. (CNC-11)
WILHELMY, JERRY B. (CNC-11)
WEBER, JOSEF (CNC-11)
DANIELS, WILLIAM R. (CNC-11)
HULET, E. K.
LANDRUM, J. H.
LOUGHEED, R. W.
WILD, J. F.

53-27
DIFFERENCES BETWEEN LASL- AND ANL -
PROCESSED CROSS SECTIONS.
LASL
1978. 161P. (LA-7197-MS)
KIDMAN, RUSSELL B. (T-2)
MAC FARLANE, ROBERT E. (T-2)
BECKER, MARTIN

53-28
DIFFERENTIAL PRODUCTION CROSS
SECTIONS OF MULTIPLY CHARGED
FRAGMENTS IN 800 MEV PROTON -
INDUCED SPALLATION OF CARBON,
ALUMINUM, AND NICKEL.
LASL
1978. 173P. THESIS, WASHINGTON
STATE UNIV., PULLMAN, 1978.
(LA-7464-T)
LUCKSTEAD, STEVEN C.

53-29
DYNAMICAL CONSTRAINTS ON THE
COUPLINGS OF THE GROUND STATE
MESONS. AN ESTIMATE OF THE PHI
YIELDS PI GAMMA DECAY.
PHYS. REV.
V.17D, P.1389-94. 1978.
ONEDA, S.
RNO, JUNG S.
SLAUGHTER, MILTON D. (T-DO)

53-30
EFFECT OF PION DISTORTION ON THE
ASYMMETRY IN PRODUCTION OF
POSITIVE PIONS BY POLARIZED PROTONS
REACTIONS ON LIGHT NUCLEI.
PHYS. REV.
V.17C, P.837-41. 1978.
YOUNG, STEPHEN K. (T-5)
GIBBS, WILLIAM R. (T-5)

53-31
EFFECT OF SHORT-RANGE CORRELATIONS
IN THE SECOND ORDER PION - CARBON
OPTICAL POTENTIAL.
NUCL. PHYS.
V.A302, P.493-510. 1978.
GARCILAZO, HUMBERTO (T-5)

53-32
ELASTIC SCATTERING OF POSITIVE PIONS ON
OXYGEN -16 AT 40.0 AND 49.7 MEV.
PHYS. REV.
V.17C, P.1395-1401. 1978.
MALBROUGH, DONALD J.
DARDEN, C. W.
EDGE, R. D.
MARKS, THOMAS
PREEDOM, BARRY M.
BURMAN, ROBERT L. (MP-4)
MOINESTER, M. A. (MP-4)
REDWINE, ROBERT P. (MP-4)
BERTRAND, F. E.
CLEARY, T. P.
GROSS, E. E.
LUDEMANN, C. A.
GOTOW, K.

53-33
ELASTIC SCATTERING OF 162 MEV PIONS
BY NUCLEI.
PHYS. REV. LETT.
V.40, P.1539-42. 1978.
ZEIDMAN, B.
OLMER, C.
GEESAMAN, D. F.
BOUDRIE, RICHARD L.
SIEMSSSEN, R. H.
AMANN, JAMES F. (MP-10)
MORRIS, CHRISTOPHER L. (MP-10)
THIESSEN, HENRY A. (MP-10)
BURLESON, G.
DEVEREUX, M.
SEGEL, R. E.
SWENSON, L. W.

53-34
EMISSION OF SODIUM -24 FRAGMENTS IN
THE INTERACTION OF GOLD -197 WITH
INTERMEDIATE-ENERGY PIONS AND
PROTONS.

PHYS. REV.
V.18C, P.2231-40. 1978.
PORILE, NORBERT T.
DROPSKY, BRUCE J. (CNC-11)
WILLIAMS, ROBERT A. (CNC-11)

53-35
ENERGY LEVELS OF IRON -60
POPULATED BY THE IRON -58
(TRITON, PROTON) IRON -60 REACTION.

PHYS. REV.
V.18C, P.102-7. 1978.
NORMAN, ERIC B.
DAVIDS, CARY N.
MOSS, CALVIN E. (Q-2)

53-36
ENERGY RESOLUTION CONSIDERATIONS
IN LIQUID IONIZATION CHAMBERS.

TIC
1977. 5P. MN (LA-UR-77-2357)
ALSO PUBLISHED IN:
IEEE TRANS. NUCL. SCI.,
V. NS-25, P.352-3. 1978.
EDMISTON, MICHAEL (E-10)
GRUHN, CHARLES R. (E-10)

53-37
ERRATUM. THRESHOLD CHARGED PION
PHOTOPRODUCTION AND RADIATIVE PION
CAPTURE. II. PI MINUS PLUS DEUTERON
GOES TO PHOTON PLUS TWO NEUTRONS.
(PHYS. REV. C 16, 327. 1977)

PHYS. REV.
V.17C, P.856. 1978.
GIBBS, WILLIAM R. (T-5)
GIBSON, BENJAMIN F. (T-5)
STEPHENSON, GERARD J., JR. (T-5)

53-38
EVALUATION OF N PLUS PLUTONIUM -242
REACTIONS FROM 10 KEV TO 20 MEV.

LASL,
1978. 35P. (LA-7533-MS)
MADLAND, DAVID G. (T-2)
YOUNG, PHILLIP G., JR. (T-2)

53-39
EVALUATION OF THE LUTETIUM -175
(N,2N)LUTETIUM -174, LUTETIUM -175
(N,2N)LUTETIUM -174M, AND
LUTETIUM -175(N,3N)LUTETIUM -173
CROSS SECTIONS FROM THRESHOLD
TO 20 MEV.

LASL,
1978. 31P. (LA-7236-MS)
PHILIS, C.
YOUNG, PHILLIP G., JR. (T-2)
ARTHUR, EDWARD D. (T-2)

53-40
EVALUATION OF THE NEUTRON - INDUCED
REACTIONS FOR URANIUM -233.
TRANS. AM. NUCL. SOC.,
V.28, P.721-2. 1978.
STEWART, LEONA (T-2)
MADLAND, DAVID G. (T-2)
YOUNG, PHILLIP G., JR. (T-2)

53-41
EVENT MATRIX SYSTEM.

LASL,
1978. 3P. (LA-7143)
DALTON, CHARLIE G. (MP-4)

53-42
EXACT CALCULATION OF THE PENETRABILITY
FOR A SIMPLE TWO - DIMENSIONAL HEAVY -
ION FUSION BARRIER.

PHYS. REV.
V.17C, P.111-7. 1978.
KODAMA, T.
NAZARETH, R. A. M. S.
MOLLER, PETER (T-9)
NIX, JAMES R. (T-9)

53-43
EXTRACTING DELTAS FROM
THE DEUTERON.

NUCL. PHYS.
V. A294, P.293-304. 1978.
GOLDHABER, ALFRED S. (T-5)

53-44
FABRICATION, CLADDING, AND HANDLING
OF IRRADIATION TARGETS FOR ISOTOPE
PRODUCTION AT LAMPF.

TRANS. AM. NUCL. SOC.,
V.30, P.808. 1978.
BENTLEY, GLENN (CNC-11)
BARNES, JOHN W. (CNC-11)
DEBUSK, THOMAS P. (CNC-11)
OTT, MARTIN ADOLF (CNC-11)

53-45
FAST NEUTRON CAPTURE CROSS SECTIONS
OF THULIUM -169, IRIIDIUM -191,
IRIDIUM -193, AND LUTETIUM -175 FOR
3 LESS THAN OR EQUAL TO E/SUB N/
LESS THAN OR EQUAL TO 2000 KEV.

LASL,
1978. 2P. (LA-7479-MS)
MACKLIN, R. L.
DRAKE, DARRELL M. (P-3)
MALANIFY, JOHN J. (P-9)

53-46
FISSION PROPERTIES OF EINSTEINIUM
AND FERMIUM.

TIC
1978. 14P. MN (LA-UR-78-499)
HOFFMAN, DARLEANE C. (CNC-11)

53-47
GENERALIZED REBALANCE. A COMMON
FRAMEWORK FOR TRANSPORT
ACCELERATION METHODS.
NUCL. SCI. ENG.,
V.65, P.226-36, 1978.
MILLER, WARREN F., JR. (T-1)

53-48
HALF-LIVES OF STRONTIUM -82 AND
RUBIDIUM -82.
PHYS. REV.,
V.18C, P.2799-2800, 1978.
GRANT, PATRICK M. (CNC-11)
ERDAL, BRUCE R. (CNC-11)
WHIPPLE, RICHARD E. (CNC-11)
DANIELS, REBECCA J. (CNC-11)
O'BRIEN, HAROLD A., JR. (CNC-11)

53-49
HYDRIDING OF TITANIUM CONES FOR A
SPUTTER ION SOURCE.
TIC,
1978, 6P. MN (LA-UR-78-429)
GURSKY, JUDITH C. (P-9)
SHERWOOD, BOYD A. (P-14)

53-50
HYDROGEN -3 AND HELIUM -4 BINDING
ENERGIES IN THE "TRUNCATED
T-MATRIX" APPROXIMATION.
PHYS. REV.,
V.18C, P.1042-4, 1978.
GIBSON, BENJAMIN F. (T-5)
LEHMAN, DONALD R.

53-51
HYDROGEN AND HELIUM PRODUCTION CROSS
SECTIONS FOR ENDF/B-V.
TRANS. AM. NUCL. SOC.,
V.28, P.740-1, 1978.
STEWART, LEONA (T-2)

53-52
IMPACT PARAMETER REPRESENTATION FOR THE
FORWARD AND BACKWARD SCATTERING OF
N-N WITH SPIN.
PHYS. REV.,
V.17D, P.1323-35, 1978.
BHAKAR, BALRAM S. (T-5)

53-53
IMPORTANCE OF NONANALOG NUCLEON
CHARGE EXCHANGE TRANSITIONS IN PION
KNOCKOUT REACTIONS.
PHYS. REV.,
V.18C, P.2785-7, 1978.
SILBAR, RICHARD R. (T-5)
GINOCCHIO, JOSEPH N. (T-5)
STERNHEIM, MORTON M.

53-54
INTEGRAL DECAY - HEAT
MEASUREMENTS AND COMPARISONS TO
ENDF/B-IV AND V.
LASL,
1978, 41P. (LA-7422)
ENGLAND, TALMADGE R. (T-2)
SCHENTER, R. E.
SCHMITTROTH, F.

53-55
INTENSE NEUTRON SOURCE FACILITY -
OCTOBER 1 - DECEMBER 31, 1977.
LASL,
1978, 55P. (LA-7156-PR)
BROWN, MARY C. (P-14) COMP.

53-56
INTENSE NEUTRON SOURCE FACILITY -
JANUARY 1 - MARCH 31, 1978.
LASL,
1978, 32P. (LA-7267-PR)
BROWN, MARY C. (P-14) COMP.

53-57
INTENSE NEUTRON SOURCE FACILITY,
APRIL 1-JUNE 30, 1978.
LASL,
1978, 14P. (LA-7473-PR)
BROWN, MARY C. (P-14) COMP.

53-58
INTERACTION OF FAST NEUTRONS WITH
HELIUM -4, HELIUM -3, AND
HYDROGEN -1. ADDITIONAL AND
IMPROVED DATA.
LASL,
1978, 16P. (LA-7269-MS)
DROSG, MANFRED (P-3)

53-59
LITHIUM -6, TRITON REACTION ON MEDIUM -
MASS NUCLEI AND THE MASS AND SPECTRUM
OF ZINC -61.
PHYS. REV.,
V.17C, P.66-74, 1978.
WOODS, CLIFFORD W. (P-9)
STEIN, NELSON (P-9)
SUNIER, JULES W. (P-9)

53-60
MEASUREMENT OF NP CHARGE EXCHANGE
FOR NEUTRON ENERGIES 150-800 MEV.
PHYS. REV. LETT.,
V.41, P.1200-3, 1978.
BONNER, BILLY E. (P-7)
SIMMONS, JAMES E. (P-7)
HOLLAS, C. L.
NEWSOM, C.
RILEY, P. J.
GLASS, G.
JAIN, MAHAVIR (Q-1)

53-61
METHOD OF IMPROVING POSITION RESOLUTION
OBTAINED FROM DELAY - LINE READOUTS
OF MWPC.

NUCL. INSTRUM. METHODS,
V.153, P.599-600. 1978.
MORRIS, CHRISTOPHER L. (MP-10)
HOFFMANN, G. W. (MP-10)

53-62
MODIFIED ONE-BODY NUCLEAR
DISSIPATION.

PHYS. REV.
V.17C, P.646-53. 1978.
SIERK, ARNOLD J. (T-9)
KONIN, S. E.
NIX, JAMES R. (T-9)

53-63
MODIFIED SURFACE ENERGY METHODS
FOR DERIVING HEAVY ION POTENTIALS.
HEAVY-ION ELASTIC SCATTERING.

1977. SYMPOSIUM, UNIV. OF
ROCHESTER, NY. PAPERS, P.306-20.
THE UNIV., 1977. (539.75/H442I)
SIERK, ARNOLD J. (T-9)

53-64
MULTIGROUP AND FEW - GROUP CROSS
SECTIONS FOR ENDF/B-IV FISSION
PRODUCTS. THE TOAFW COLLAPSING
CODE AND DATA FILE OF 154 - GROUP
FISSION - PRODUCT CROSS SECTIONS.

LASL,
1978. 61P. (LA-7174-MS)
WILSON, WILLIAM B. (T-2)
ENGLAND, TALMADGE R. (T-2)
LABAUVE, RAPHAEL J. (T-2)

53-65
MULTIPLE SCATTERING THEORY. I.
INTRODUCTION TO MULTIPLE
SCATTERING AND THE PION
NUCLEUS.

THEORETICAL METHODS IN
MEDIUM-ENERGY AND HEAVY ION
PHYSICS. K.W. MCVOY, ED.
P.503-10. PLENUM, 1978.
GIBBS, WILLIAM R. (T-5)

53-66
MULTIPLE SCATTERING THEORY. II.
FIXED NUCLEON APPROXIMATION.

THEORETICAL METHODS IN
MEDIUM-ENERGY AND HEAVY ION
PHYSICS. K.W. MCVOY, ED.
P.510-31. PLENUM, 1978.
GIBBS, WILLIAM R. (T-5)

53-67
MULTIPOLE PAIRING STATES AND THE
CORRESPONDENCE BETWEEN TWO - AND FOUR -
PARTICLE TRANSFER REACTIONS.

PHYS. LETT.
V.76B, P.47-50. 1978.
BETTS, RUSSELL R.
STEIN, NELSON (P-9)
SUNIER, JULES W. (P-9)
WOODS, CLIFFORD W. (P-9)

53-68
MUONIC ISOTOPE SHIFTS IN THE STABLE
CALCIUM NUCLEI.

PHYS. LETT.
V.73B, P.131-4. 1978.
WOHLFAHRT, HANS D. (P-2)
SHERA, E. BROOKS (P-2)
HOEHN, MARTHA V. (P-2)
YAMAZAKI, Y. (P-2)
FRICKE, GERHARD
STEFFEN, ROLF M.

53-69
N = 85 NUCLEI. II. DECAY OF 4.15-H
TERBIUM -149/SUP G/ TO LEVELS OF
GADOLINIUM -149.

PHYS. REV.
V.18C, P.1840-56. 1978.
JACKSON, SYDNEY V. (P-2)
STARNER, JOHN W. (P-2)
DANIELS, WILLIAM R. (CNC-11)
BUNKER, MERLE E. (P-12)
MEYER, RICHARD A.

53-70
NEUTRON DEFORMATION PARAMETER
FROM COMPARATIVE STUDY OF
POSITIVE PION AND NEGATIVE
PION INELASTIC SCATTERING.

PHYS. REV. LETT.
V.40, P.17-20. 1978.
IVERSEN, STEVEN (MP-10)
OBST, ANDREW (MP-10)
SETH, KAMAL K. (MP-10)
THIESSEN, HENRY A. (MP-10)
MORRIS, CHRISTOPHER L. (MP-10)
TANAKA, NOBUYUKI (MP-10)
SMITH, ELTON (MP-10)
AMANN, JAMES F. (MP-10)
BOUDRIE, RICHARD L.
BURLESON, G.
DEVEREUX, M.
SWENSON, W.
VARGHESE, PHILIP
BOYER, K.
BRAITHWAITE, WILFRED J.
COTTINGAME, W.
MOORE, C. FRED (MP-10)

53-71
NEUTRON EMISSION FROM ACTINIDE
MUONIC ATOMS.

PHYS. REV.,
V.18C, P.1452-62. 1978.

WILCKE, W.
JOHNSON, M. W.
SCHRODER, W. U.
HUIZENGA, J. R.
PERRY, DENNIS G. (MP-1)

53-72
NEUTRON MULTIPLICITY MEASUREMENTS
OF CALIFORNIUM AND FERMIUM
ISOTOPES.

TIC
1977. 21P. MN (LA-UR-77-2916)
HOFFMAN, DARLEANE C. (CNC-11)
FORD, GEORGE P. (CNC-11)
BALAGNA, JOHN P., JR. (CNC-11)
VEESER, LYNN R. (P-3)

53-73
NEUTRON SPECTRA CHARACTERISTICS
FOR THE INTENSE NEUTRON
SOURCE, INS.

TIC
1977. 17P. MN (LA-UR-77-1054)
BATTAT, MORRIS E. (T-1)
DIERCKX, R.
EMIGH, C. ROBERT (P-14)

53-74
NEW UPPER LIMIT FOR MUON
DECAYING INTO AN ELECTRON
AND TWO GAMMAS.

PHYS. REV. LETT.,
V.41, P.442-5. 1978.
BOWMAN, J. DAVID (MP-4)
CHENG, T. P.
LI, LING-FONG
MATIS, H. S.

53-75
NN QUASINUCLEAR STATES AND THE
BETHE-SALPETER EQUATION.

PHYS. REV.,
V.18D, P.2565-8. 1978.
TJON, JOHN (T-5)

53-76
NONLOCAL CONTRIBUTIONS TO THE
RHO - OMEGA MIXING CHARGE -
SYMMETRY - BREAKING FORCE.

PHYS. REV.,
V.17C, P.1752-62. 1978.
FRIAR, JAMES L. (T-5)
GIBSON, BENJAMIN F. (T-5)

53-77
NUCLEAR DATA DEVELOPMENT AND SHIELD
DESIGN FOR NEUTRONS BELOW 60 MEV.

LASL,
1978. THESIS, TEXAS A & M
UNIV., 1978. 115P. (LA-7159-T)
WILSON, WILLIAM B. (T-2)

53-78
NUCLEAR EXCITATION RATE.

PHYS. REV. LETT.,
V.40, P.1695-8. 1978.
DOOLEN, GARY D. (TD-2)

53-79
NUCLEAR STRUCTURE AND INELASTIC
ELECTRON SCATTERING REACTIONS.
THE SIGNIFICANCE OF
HIGH-MOMENTUM-TRANSFER
DATA AND MESON-EXCHANGE CURRENTS.

PHYS. REV. LETT.,
V.41, P.1453-7. 1978.
DUBACH, JOHN (T-5)
HARTON, WICK C. (T-5)

53-80
NUCLEAR STRUCTURE OF PROMETHIUM -153
STUDIED WITH THE (TRITON,ALPHA)
REACTION.

PHYS. REV.,
V.18C, P.693-706. 1978.
BURKE, D. G.
LOVHOIDEN, G.
FLYNN, EDWARD R. (P-7)
SUNIER, JULES W. (P-9)

53-81
OBSERVATION OF THE NEUTRON
PAIRING VIBRATION IN MERCURY -206.

PHYS. LETT.,
V.76B, P.197-9. 1978.
FLYNN, EDWARD R. (P-7)
HANSON, DAVID L. (P-7)
POORE, RAY V. (P-9)
ORBESEN, STUART D. (P-7)
LIND, D. A.

53-82
ON CROSS SECTIONS FOR ELECTRON
IMPACT IONIZATION OF
MULTICHARGED IONS.

IEEE TRANS. PLASMA SCI.,
V.PS-6, P.71-5. 1978.
BARFIELD, W. DAVID (T-4)

53-83
OSMIUM -188, -190, -192
(TRITON, PROTON) REACTION AT 15 MEV.

PHYS. REV.,
V.17C, P.501-7. 1978.
FLYNN, EDWARD R. (P-9)
BURKE, D. G.

53-84
 PION - INDUCED SINGLE - NUCLEON
 REMOVAL TO DISCRETE FINAL STATES.
 PHYS. REV.
 V.17C, P.227-36. 1978.
 MORRIS, CHRISTOPHER L. (MP-10)
 BOUDRIE, RICHARD L.
 KRAUSHAAR, J. J.
 PETERSON, R. J.
 RISTINEN, R. A.
 SMITH, GREGORY R.
 BOLGER, JOSEPH E.
 BRAITHWAITE, W. J.
 MOORE, C. FRED
 SMITH, L. E.

53-85
 PION - NUCLEON FORM FACTOR IN THE
 CHEW-LOW THEORY.
 PHYS. REV.
 V.17C, P.247-58. 1978.
 ERMST, DAVID J.
 JOHNSON, MIKKEL (MP-DO)

53-86
 PION DOUBLE - CHARGE EXCHANGE ON
 OXYGEN -16 AND OXYGEN -18.
 PHYS. REV.
 V.17C, P.1774-86. 1978.
 BURMAN, ROBERT L. (MP-4)
 BAKER, MICHAEL P. (Q-1)
 COOPER, MARTIN D. (MP-3)
 HEFFNER, ROBERT H. (MP-3)
 LEE, DAVID M. (MP-3)
 REDWINE, ROBERT P. (MP-4)
 SPENCER, JAMES E. (MP-4)
 MARKS, THOMAS
 MALBROUGH, DONALD J.
 FREEDOM, BARRY M.
 HOLT, ROY J.
 ZEIDMAN, E.

53-87
 POSITIVE PION PLUS DEUTERON YIELDS
 PROTON PLUS PROTON REACTION AT 40,
 50, AND 60 MEV.
 PHYS. REV.
 V.17B, P.1402-8. 1978.
 FREEDOM, BARRY M.
 DARDEN, C. W.
 EDGE, R. D.
 MARKS, THOMAS
 SALTMARSH, M. J.
 GABATHULER, K.
 GROSS, E. E.
 LUDEMANN, C. A.
 BERTIN, P. Y.
 BLECHER, M.
 GOTOW, K.
 ALSTER, JONAS
 BURMAN, ROBERT L. (MP-4)
 PERROUD, J. P.
 REDWINE, ROBERT P. (MP-4)

53-88
 PRESSURE GENERATION DUE TO A
 TEMPERATURE DISCONTINUITY AT A
 LIQUID - LIQUID PLANE INTERFACE.
 PHYS. FLUIDS,
 V.21, P.334-46. 1978.
 COOPER, FREDERICK M. (T-1)
 BLEWETT, PATRICK J. (Q-7)

53-89
 PROMPT NEUTRONS FROM NEUTRON - INDUCED
 FISSION OF NEPTUNIUM -237.
 PHYS. REV.
 V.17C, P.385-7. 1978.
 VEESER, LYNN R. (P-3)

53-90
 PROTON ELASTIC AND INELASTIC
 SCATTERING AT 0.8 GEV FROM CARBON
 -12, -13 AND LEAD 208.
 PHYS. REV.
 V.18C, P.1436-46. 1978.
 BLANPIED, GARY S. (MP-10)
 COKER, WILLIAM R.
 LILJESTRAND, R. (MP-10)
 HOFFMANN, G. W. (MP-10)
 RAY, LANDON (T-5)
 MADLAND, DAVID G. (T-2)
 MORRIS, CHRISTOPHER L. (MP-10)
 PRATT, JOHN C. (Q-2)
 SPENCER, JAMES E. (MP-4)
 THIESSEN, HENRY A. (MP-10)
 KOZLOWSKI, THOMAS (MP-1)
 HINTZ, N. M.
 KYLE, GARY S. (MP-10)
 OOTHOUT, M. A.
 BAUER, T. S.
 IGO, G.
 RIDGE, R. J.
 WHITTEN, C. A., JR.
 LANG, P. M.
 NANN, H.
 SETH, KAMAL K.

53-91
 QUASIELASTIC CHARGE EXCHANGE IN NEUTRON
 DEUTERON YIELDS PROTON PLUS
 NEUTRON PLUS NEUTRON AT 794 MEV.
 PHYS. REV.
 V.17C, P.664-70. 1978.
 BONNER, BILLY E. (P-DOR)
 SIMMONS, JAMES E. (P-DOR)
 WALLACE, JON M. (TD-2)
 EVANS, MICHAEL L. (Q-1)
 GLASS, G.
 HIEBERT, J. C.
 JAIN, MAHAVIR (Q-1)
 NORTHCLIFFE, LEE CONRAD
 BJORK, C. W. (L-10)
 RILEY, P. J.
 CASSAPAKIS, CONSTANTINE G.

53-92
RAPID SPECTRAL AND DECAY - HEAT
CALCULATIONS USING PROCESSED ENDF/B
FISSION - PRODUCT DATA.

TRANS. AM. NUCL. SOC.,
V.28, P.749-50. 1978.
LABAUVE, RAPHAEL J. (T-2)
ENGLAND, TALMADGE R. (T-2)

53-93
RELATIVE INTENSITIES OF GAMMA RAYS FROM
HOLMIUM 166M.

NUCL. INSTRUM. METHODS,
V.150, P.361-3. 1978.
SAMPSON, THOMAS E. (Q-2)

53-94
RELATIVISTIC TWO - FLUID MODEL OF
NUCLEUS - NUCLEUS COLLISIONS.

PHYS. REV.,
V.17C, P.2080-96. 1978.
AMSDEN, ANTHONY A. (T-3)
GOLDHABER, ALFRED S. (T-9)
HARLOW, FRANCIS H. (T-3)
NIX, JAMES R. (T-9)

53-95
REPLY TO "USE OF CHIRAL SYMMETRY IN
PION CONDENSATION CALCULATIONS."

PHYS. REV.,
V.18D, P.1343-6. 1978.
CAMPBELL, DAVID K. (T-8)
DASHEN, ROGER F. (T-8)
MANASSAH, JAMAL T.

53-96
SCATTERING OF POLARIZED
TRITONS BY BERYLLIUM -9 AND
CARBON -12.

PHYS. REV.,
V.17C, P.16-23. 1978.
SCHMELZBACH, PIERRE
HARDEKOPF, ROBERT A. (P-9)
HAGLUND, R. F., JR. (P-9)
OHLSEN, GERALD G. (P-9)

53-97
SCATTERING OF 0.8 GEV PROTONS FROM
LEAD -208, CARBON -12, AND
CARBON -13.

LASL,
1978. 131P. THESIS, UNIV. OF TEXAS
AT AUSTIN, 1978. (LA-7262-T)
BLANPIED, GARY S. (P-10)

53-98
SHAPE TRANSITION BETWEEN N = 40
AND 42 IN THE GALLIUM AND
GERMANIUM ISOTOPES.

UNIV. PARIS SUD, INST. DE
PHYSIQUE NUCLEAIRE, ORSAY. 1977.
7P. AND PLATES. (IPNO-PHM-77-23)
VERGNES, M. N.
ROTBARD, G.
GUILBAUT, F.
ARDOUIN, D.
LEBRUN, C.
FLYNN, EDWARD R. (P-9)
HANSON, DAVID L. (P-9)
ORBESEN, STUART D. (P-9)

53-99
SHIELDING FACTOR METHOD FOR
PRODUCING EFFECTIVE CROSS
SECTIONS. MINX/SPHINX AND THE
CCCC INTERFACE SYSTEM.

TIC,
1978. 13P. MN (LA-UR-78-772)
MAC FARLANE, ROBERT E. (T-2)
WEISBIN, C. R.
PAIK, N. C.

53-100
SPIN DETERMINATION OF RESONANCE
STRUCTURE IN (URANIUM -235 + N)
BELOW 25 KEV.

PHYS. REV.,
V.18C, P.1328-48. 1978.
MOORE, MICHAEL S. (P-3)
MOSES, JOHN D. (P-3)
KEYWORTH, GEORGE A. (P-3)
DABBS, J. W. T.
HILL, N. W.

53-101
STATES IN PLATINUM -197 POPULATED BY
THE (DEUTERON, PROTON), (DEUTERON,
TRITON) AND (NEUTRON, GAMMA)
REACTIONS.

PHYS. REV.,
V.17C, P.2061-70. 1978.
YAMAZAKI, Y. (P-2)
SHELIN, RAYMOND K.
SHERA, E. BROOKS (P-2)

53-102
STATUS OF THE ENDF/B SPECIAL
APPLICATION FILES.

TIC,
1977. 12P. MN (LA-UR-77-2140)
ALSO PUBLISHED IN:
REACTOR DOSIMETRY. 1977.
(OCT.) ASTM-FURATOM SYMP. 2ND,
PALO ALTO. PROC. DOSIMETRY
METHODS FOR FUELS, CLADDING,
AND STRUCTURAL MATERIALS.
P.843-53. (NUREG/CP-0004 V.2)
STEWART, LEONA (T-2)

53-103
 STRUCTURE OF GERMANIUM -78 FROM
 THE GERMANIUM -76 (TRITON, PROTON)
 GERMANIUM -78 REACTION.
 NANTES UNIV., FRANCE. INST. DE
 PHYSIQUE. LAB. DE SPECTROSCOPIE
 NUCLEAIRE AND LOS ALAMOS SCIENTIFIC
 LABORATORY. RAPPORT INTERNE. 1978.
 18P. (LSNM-78-02)
 ALSO PUBLISHED IN:
 PHYS. REV.
 V.18C, P.1201-6. 1978.
 ARDOUIN, D.
 LEBRUN, C.
 GUILBAULT, F.
 REMAUD, B.
 FLYNN, EDWARD R. (P-7)
 HANSON, DAVID L. (P-7)
 ORBESEN, STUART D. (P-7)
 VERGNES, M. N.
 ROTBARD, G.
 KUMAR, K.

53-104
 SYSTEMATICS OF 0 DEGREES NEUTRON
 PRODUCTION BY 800 MEV PROTONS
 ON TARGETS WITH ATOMIC NUMBERS
 FROM 27 TO 238.
 PHYS. REV.
 V.18C, P.1418-25. 1978.
 BONNER, BILLY E. (P-DOR)
 SIMMONS, JAMES E. (P-DOR)
 NEWSOM, C.
 RILEY, P. J.
 GLASS, G.
 HIEBERT, J. C.
 JAIN, MAHAVIR (Q-1)
 NORTHCLIFFE, LEE CONRAD

53-105
 THRESHOLD PION ELECTROPRODUCTION
 AND THE NUCLEAR RESPONSE SURFACE.
 NUCL. PHYS.
 V.306A, P.429-46. 1978.
 HAXTON, WICK C. (T-5)

53-106
 THRESHOLD PION PHOTOPRODUCTION
 AND RADIATIVE PION CAPTURE. III.
 HELIUM -3 GOES TO HYDROGEN -3.
 PHYS. REV.
 V.18C, P.1761-3. 1978.
 GIBBS, WILLIAM R. (T-5)
 GIBSON, BENJAMIN F. (T-5)
 STEPHENSON, GERARD J., JR. (T-5)

53-107
 THRESHOLD PION PHOTOPRODUCTION IN
 CARBON -12 AND THE 15.11 MEV
 M1 FORM FACTOR.
 PHYS. LETT.
 V.76B, P.165-9. 1978.
 HAXTON, WICK C. (T-5)

53-108
 TRIDENT. A NEW TRIANGULAR MESH
 DISCRETE ORDINATES CODE.
 TIC
 1978. 6P. MN (LA-UR-77-2511)
 SEED, THOMAS J. (T-1)
 MILLER, WARREN F., JR. (T-1)
 BOSLER, GERALD E. (T-1)

53-109
 TRITIUM PRODUCTION IN A SPHERE
 OF (6)LID IRRADIATED BY 14 -MEV
 NEUTRONS.
 LASL
 1978. 32P. (LA-7310)
 HEMMENDINGER, ARTHUR (P-3)
 RAGAN, CHARLES E. (P-3)
 SHUNK, EDWARD R. (P-3)
 ELLIS, ALBERT N. (P-3)
 ANAYA, JOSE MANUEL (P-3)
 WALLACE, JON M. (L-6)

53-110
 UNCERTAINTIES IN NEUTRON DENSITIES
 DETERMINED FROM ANALYSIS OF 0.8
 GEV POLARIZED PROTON SCATTERING
 FROM NUCLEI.
 PHYS. REV.
 V.18C, P.2641-55. 1978.
 RAY, ROBERT L. (T-5)
 COKER, WILLIAM R.
 HOFFMANN, G. W. (MP-10)

53-111
 UNIFIED ABSOLUTE DIFFERENTIAL CROSS
 SECTIONS FOR NEUTRON PRODUCTION BY TH
 HYDROGEN ISOTOPES FOR CHARGED PARTICLE
 ENERGIES BETWEEN 6 AND 17 MEV.
 NUCL. SCI. ENG.
 V.67, P.190-220. 1978.
 DROSG, MANFRED (P-3)

53-112
 YET MORE COMPLEXITY IN FISSION.
 BARRIERS FOR NUCLEI WITH N = 150-154.
 PHYS. REV. LETT.
 V.40, P.1010-3. 1978.
 BRITT, HAROLD C. (P-9)
 GAVRON, AVIGDOP I. (P-9)
 GOLDSTONE, PHILIP D. (P-9)
 SCHOENMACKERS, RUDI (P-9)
 WEBER, JOE
 WILHELMY, JERRY B. (CNC-11)

53-113
 $^4\text{He}(D,D)^4\text{He}$ SCATTERING FROM 12
 TO 17 MEV.
 LASL
 1978. 11P. (LA-7378-MS)
 BROWN, RONALD E. (P-7)
 GRUEBLER, WILLI (P-DOR)
 HARDEKOPF, ROBERT A. (P-7)
 CORRELL, FRANCIS D. (P-7)
 JARMIE, NELSON (P-7)
 OHLSEN, GERALD G. (P-7)

54. PHYSICS--PARTICLES AND FIELDS

54-1
CALORIMETRIC FISSION PRODUCT DECAY
HEAT MEASUREMENTS FOR
PLUTONIUM -239, URANIUM -233, AND
URANIUM -235.

LASL,
1978. 21P. (LA-7452-MS)
YARNELL, JOHN L. (P-8)
BENDT, PHILIP J. (P-2)

54-2
CHANGES OF SYMMETRY IN WEAK INTERACTIONS
AT LARGE TRANSVERSE MOMENTA.

PHYS. REV.
V.18D, P.879-83. 1978.
ELIEZER, SHALOM (T-DO)
WEINER, RICHARD (T-DO)

54-3
CHEMILUMINESCENT MEASUREMENT
SENSITIVITY OF A NON-UNIFORM
GAS.

J. QUANT. SPECTROSC. RADIAT. TRANSFER,
V.19, P.397-406. 1978.
EMANUEL, GEORGE

54-4
COHERENT STATES FOR GENERAL
POTENTIALS.

PHYS. REV. LETT.
V.41, P.207-10. 1978.
NIETO, MICHAEL MARTIN (T-8)
SIMMONS, LEONARD M. (T-DO)

54-5
DEPTH DEPENDENT AND TIME
AVERAGED DIFFUSION MODEL FOR
NITROGEN SATURATION/DESATURATION
PROCESSES.

INDIAN J. TECHNOL.,
V.15, P.326-9. 1977.
WIENKE, BRUCE R. (T-1)

54-6
DERIVATION OF THE VIRIAL
EXPANSION WITH APPLICATION TO
EUCLIDEAN QUANTUM FIELD THEORY.

J. MATH. PHYS.,
V.19, P.135-50. 1978.
MENIKOFF, RALPH (T-14)
SHARP, DAVID H. (T-8)

54-7
EFFECTS OF CLASSICAL FIELDS IN MESON
CORRELATIONS.

PHYS. REV.,
V.17D, P.3118-23. 1978.
FOWLER, G. N.
WEINER, RICHARD (T-DO)

54-8
ESTIMATING POPULATION SIZES IN A
MIXTURE OF TWO RADIOACTIVE
POPULATIONS.

LASL,
1978. 25P. (LA-7197)
BEYER, WILLIAM A. (T-7)
QUALLS, CLIFFORD (T-7)

54-9
EXACT CLASSICAL SOLUTIONS TO THE TWO
DIMENSIONAL "SIGMA" MODEL - AN UNUSUAL
APPLICATION OF INVERSE SCATTERING
TECHNIQUES.

TIC,
1976. 36P. MN (LA-UR-76-1924)
ALSO PUBLISHED IN:
ROCKY MT. J. MATH.,
V.8, P.371-92. 1978.
CAMPBELL, DAVID K. (T-8)

54-10
FERMIONS AND BOSONS IN A UNIFIED
FRAMEWORK. I. PHYSICAL FOUNDATIONS.

PHYS. REV.,
V.18D, P.3737-60. 1978.
MACRAE, KENNETH I. (T-8)

54-11
FERMIONS AND BOSONS IN A UNIFIED
FRAMEWORK. II. INTERACTING MODELS.

PHYS. REV.,
V.18D, P.3761-76. 1978.
MACRAE, KENNETH I. (T-8)

54-12
INTERMULTIPLY MIXING OF THE
VECTOR MESONS IN A
NONPERTURBATIVE APPROACH TO
BROKEN SU(4).

PHYS. REV. LETT.,
V.39, P.309-12. 1977.
SLAUGHTER, MILTON D. (T-8)
ONEDA, S.

54-13
IS THE FERMI THEORY OF WEAK
INTERACTIONS A YANG-MILLS THEORY IN
DISGUISE?

PHYS. REV. LETT.,
V.40, P.1620-3. 1978.
COOPER, FREDERICK M. (T-8)
GURALNIK, G. S.
SNYDERMAN, NEAL

54-14
PATH INTEGRAL FORMULATION OF MEAN -
FIELD PERTURBATION THEORY.

ANN. PHYS.,
V.109, P.165-209P. 1977.
BENDER, CARL M.
COOPER, FREDERICK M. (T-8)
GURALNIK, G. S.

54-15
STIMULATED EMISSION AND ABSORPTION
IN CLASSICAL SYSTEMS.

PHYS. REV.,
V.17A, P.1713-20, 1978.
COCKE, W. J. (T-DO)

54-16
VARIATIONAL METHOD FOR BOSON
SCATTERING.

PHYS. REV.,
V.18D, P.1110-2, 1978.
BOLSTERLI, MARK (T-9)

54-17
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PHYS. REV. LETT.,
V.40, P.220-2, 1978.
GOLDMAN, TERRENCE J. (T-8)
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55. RADIOISOTOPE AND RADIATION APPLICATIONS

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GENERAL - PURPOSE HEAT SOURCE
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PROGRAM, AND RADIOISOTOPIC
TERRESTRIAL SAFETY PROGRAM,
DECEMBER 1977.

LASL,
1978, 30P. (LA-7129-PR)
BAKER, RICHARD D. (CMB-DO) COMP.

55-2
GENERAL - PURPOSE HEAT SOURCE
PROJECT, SPACE NUCLEAR SAFETY
PROGRAM, AND RADIOISOTOPIC
TERRESTRIAL SAFETY PROGRAM.

LASL,
1978, 27P. (LA-7256-PR)
BAKER, RICHARD D. (CMB-DO) COMP.

55-3
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LASL,
1978, 19P. (LA-7385-SR)
SNOW, EDWARD CLARK (CMB-5)
ZOECHER, ROY W. (CMB-11)

55-4
GENERAL - PURPOSE HEAT SOURCE
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PROGRAM - JUNE 1978.

LASL,
1978, 35P. (LA-7416-PR)
BAKER, RICHARD D. (CMB-DO) COMP.

55-5
GENERAL - PURPOSE HEAT SOURCE
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PROGRAM, AND RADIOISOTOPIC
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JULY 1978.

LASL,
1978, 32P. (LA-7460-PR)
BAKER, RICHARD D. (CMB-DO) COMP.

55-6
GENERAL - PURPOSE HEAT SOURCE
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PROGRAM, AND RADIOISOTOPIC
TERRESTRIAL SAFETY PROGRAM,
AUGUST 1978.

LASL,
1978, 51P. (LA-7519-PR)
BAKER, RICHARD D. (CMB-DO) COMP.

55-7
GENERAL - PURPOSE HEAT SOURCE PROJECT
SPACE NUCLEAR SAFETY PROGRAM, AND
RADIOISOTOPIC TERRESTRIAL SAFETY
PROGRAM.

LASL,
1978, 33P. (LA-7381-PR)
BAKER, RICHARD D. (CMB-DO) COMP.

55-8
GENERAL - PURPOSE HEAT SOURCE PROJECT,
SPACE NUCLEAR SAFETY PROGRAM, AND
RADIOISOTOPIC TERRESTRIAL SAFETY
PROGRAM, JANUARY 1978.

LASL,
1978, 33P. (LA-7184-PR)
BAKER, RICHARD D. (CMB-DO) COMP.

55-9
GENERAL - PURPOSE HEAT SOURCE PROJECT,
SPACE NUCLEAR SAFETY PROGRAM, AND
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PROGRAM, FEBRUARY 1978.

LASL,
1978, 37P. (LA-7220-PR)
BAKER, RICHARD D. (CMB-DO) COMP.

55-10
GENERAL PURPOSE HEAT SOURCE
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LASL,
1978, 20P (LA-7546-SR)
SNOW, EDWARD CLARK (CMB-5)
ZOECHER, ROY W. (CMB-11)
GRINBERG, I. M.
HULBERT, L. E.

55-11
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TERRESTRIAL SAFETY PROGRAM,
SEPTEMBER 1978.

LASL,
1978, 34P. (LA-7560-PR)
BAKER, RICHARD D. (CMB-DO)

55-12
GENERAL PURPOSE HEAT SOURCE PROJECT
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LASL,
1978, 35P. (LA-7601-PR)
BAKER, RICHARD D. (CMB-DO) COMP.

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56-1
ANALYTICAL METHODS FOR FISSIONABLE
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LASL,
1978. 14P. (LA-7013-PR)
WATERBURY, GLENN R. (CMB-1) COMP.

56-2
CALIFORNIUM -252 BASED
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NUCL. INSTRUM. METHODS,
V.152, P.549-57. 1978.
MENLOVE, HOWARD O. (Q-1)
CRANE, T. W. (Q-1)

56-3
COORDINATED SAFEGUARDS FOR MATERIALS
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CONVERSION, AND FUEL FABRICATION
FACILITIES.
NUCL. MATER. MANAGEMENT,
V.7, P.126-33. 1978.
DAYEM, HASSAN ALY (Q-4)
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DIETZ, RUDOLPH J., JR. (Q-4)
HAKKILA, E. ARNOLD (Q-4)
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SMITH, DARRYL B. (Q-4)

56-4
COORDINATED SAFEGUARDS FOR MATERIALS
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LASL,
1978. PAGED IN SECTIONS.
(LA-7011)
DAYEM, HASSAN ALY (Q-4)
COBB, DONALDD. (Q-4)
DIETZ, RUDOLPH J., JR. (Q-4)
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56-5
CRITICAL REVIEW OF ANALYTICAL
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LASL,
1978. 78P. (LA-7372)
HAKKILA, E. ARNOLD (Q-4)

56-6
DECISION ANALYSIS FOR NUCLEAR
SAFEGUARDS.
NUCLEAR SAFEGUARDS ANALYSIS.
NONDESTRUCTIVE AND ANALYTICAL
CHEMICAL TECHNIQUES. E.A. HAKKILA,
ED. P.34-64. ACS, 1978.
(621.48/N964SA)
SHIPLEY, JAMES P., JR. (Q-4)

56-7
DYNAMIC DEMONSTRATION PROGRAM. PHASE 1
EXPERIENCE.
LASL,
1978. 51P. AND APPEND.
(LA-7126-MS)
AUGUSTSON, RONALD H. (Q-3)

56-8
DYNAMIC MATERIALS CONTROL DEVELOPMENT
AND DEMONSTRATION PROGRAM.
NUCL. MATER. MANAGEMENT,
V.7, P.305-18. 1978.
AUGUSTSON, RONALD H. (Q-3)

56-9
EFFICIENT ANALYSIS OF DYNAMIC
MATERIALS ACCOUNTING DATA.
NUCL. MATER. MANAGEMENT,
V.7, P.355-66. 1978.
SHIPLEY, JAMES P., JR. (Q-4)

56-10
FEASIBILITY OF NONDESTRUCTIVE
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ENRICHMENT PLANTS.

LASL,
1978. 51P. (LA-7212-MS)
WALTON, RODDY B. (Q-1)

56-11
HELIUM -3 DETECTOR DESIGN FOR LOW -
LEVEL TRANSURANIC WASTE ASSAY.
TRANS. AM. NUCL. SOC.,
V.28, P.137-8. 1978.
HENDRICKS, JOHN S. (TD-6)
CLOSE, DONALD A. (H-1)

56-12
INVENTORY AND VERIFICATION OF STORED
NUCLEAR MATERIAL.
NUCL. MATER. MANAGEMENT,
V.7, NO.1, P.77-88. 1978.
ATWATER, HENRY F. (Q-2)
NICHOLSON, NICHOLAS (Q-2)

56-13
INVENTORY VERIFICATION IN LARGE
CRITICAL FACILITIES.
NUCL. MATER. MANAGEMENT,
V.7, P.233-42. 1978.
COBB, DONALD D. (Q-4)
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KERN, EDWARD A. (Q-4)

56-14
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TIC,
1978. 22P. MN (LA-UR-78-1444)
BARON, NORTON

56-15
NEUTRON DETECTOR SUITCASE FOR THE
NUCLEAR EMERGENCY SEARCH TEAM.
LASL,
1978. 6P. (LA-7108)
DOWDY, EDWARD J. (Q-2)
HENRY, CARL N. (Q-2)
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56-16
NEUTRON INTERROGATOR ASSAY SYSTEM
FOR THE IDAHO CHEMICAL PROCESSING
PLANT WASTE CANISTERS AND SPENT
FUEL. PRELIMINARY DESCRIPTION AND
OPERATING PROCEDURES MANUAL.
LASL,
1978. 36P. (LA-7250-M)
MENLOVE, HOWARD O. (Q-1)
ECCLESTON, GEORGE W. (Q-1)
CLOSE, DONALD A. (H-1)
SPEIR, LESLIE GAYLE (Q-1)

56-17
NON-DESTRUCTIVE ASSAY TECHNOLOGY
AND AUTOMATED "REAL-TIME" MATERIALS
CONTROL.
NUCLEAR POWER AND ITS FUEL
CYCLE. 1977. INTERNATIONAL
CONF. SALZBURG, AUSTRIA. PROC.,
V.7, P.597-614. IAEA, 1977.
(338/N964PR)
KEEPIN, G. ROBERT (R-DO)

56-18
NONDESTRUCTIVE ASSAY METHODS FOR
IRRADIATED NUCLEAR FUELS.
LASL,
1978. 35P. (LA-6923)
HSUE, S. T. (Q-1)
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TALBERT, W. L., JR. (Q-14)
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56-19
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TIC,
1978. 12P. MN (LA-UR-78-1648)
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56-20
NUCLEAR SAFEGUARDS APPLICATIONS OF
ENERGY-DISPERSIVE ABSORPTION EDGE
DENSITOMETRY.
AMERICAN CHEMICAL SOCIETY.
NATIONAL MEETING. 1978 (MAR.)
175TH, ANAHEIM, CA. ABSTRACTS OF
PAPERS, NUCL 21.
ALSO PUBLISHED IN:
NUCLEAR SAFEGUARDS ANALYSIS.
NONDESTRUCTIVE AND ANALYTICAL
CHEMICAL TECHNIQUES. E.A. HAKKILA,
ED. P.95-123. ACS, 1978.
(621.48/N964SA)
CANADA, THOMAS R. (Q-1)
LANCNER, D. G. (Q-1)
TAPE, JAMES W. (Q-1)

56-21
NUCLEAR SAFEGUARDS RESEARCH AND
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MAY - AUGUST 1977.
LASL,
1978. 86P. (LA-7030-PR)
SAPIR, JOSEPH L. (Q-DO) COMP.

56-22
NUCLEAR SAFEGUARDS, RESEARCH AND
DEVELOPMENT. PROGRAM STATUS REPORT, -
SEPTEMBER - DECEMBER 1977.
LASL,
1978. 88P. (LA-7211-PR)
SAPIR, JOSEPH L. (Q-DO) COMP.

56-23
ON-LINE ACCOUNTABILITY OF SPECIAL
NUCLEAR MATERIAL (DYMAL).
CUBE SYMPOSIUM. 1978. LOS ALAMOS,
NM. ABST. J.J. RUMINER, COMP.
P.41. LASL, 1978. (LA-7417-C)
FORD, ROBERT F. (E-5)

56-24
PRELIMINARY CONCEPTS - COORDINATED
SAFEGUARDS FOR MATERIALS MANAGEMENT
IN A THORIUM-URANIUM FUEL
REPROCESSING PLANT.
LASL,
1978. 71P. (LA-7411-MS)
HAKKILA, E. ARNOLD (CMB-1)
BARNES, JAMES W. (WX-4)
DAYEM, HASSAN ALY (Q-4)
DIETZ, RUDOLPH J., JR. (Q-4)
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56-25
RECONSTRUCTION OF AN ACCOUNT'S PAST.
NUCL. MATER. MANAGEMENT,
V.6, NO.4, P.55-7. 1978.
WATERMAN, MICHAEL S. (Q-12)
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56-26
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TA-41, LASL.
LASL,
1978. 20P. (LA-6913)
EHRENKRANZ, THEODORE E. (H-3)
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PLASSMANN, E. H. (WX-5)
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TIC,
1977. 8P. MN (LA-UR-77-2420)
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LASL,
1978. 17P. (LA-7337-MS)
SHIPLEY, JAMES P., JR. (Q-4)

56-29
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LASL,
1978. 14P. (LA-6904-MS)
DOUGHERTY, JOHN E. (TD-7)

56-30
TECHNICAL IMPLEMENTATION OF
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TRANS. AM. NUCL. SOC.,
V.30, P.136. 1978.
KEEPIN, G. ROBERT (Q-DO)

56-31
TITLES AND ABSTRACTS OF RECENT
SAFEGUARDS R&D PUBLICATIONS AND
REPORTS.
NUCL. MATER. MANAGEMENT,
V.6, NO.4, P.31-2. 1978.
SAFEGUARDS GROUPS

56-32
TRANSURANIC WASTE ASSAY
INSTRUMENTATION - NEW DEVELOPMENTS
AND DIRECTIONS AT THE LOS ALAMOS
SCIENTIFIC LABORATORY.
NUCL. MATER. MANAGEMENT,
V.7, P.503-14. 1978.
CLOSE, DONALD A. (H-1)
UMBARGER, C. JOHN (H-1)
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AUGMENTED SOLAR ENERGY COLLECTION
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SURFACES. THEORETICAL CALCULATIONS
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LASL,

1978. 36P. (LA-07041)

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57-7

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1978. 17P. MN (LA-UR-78-1051)

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FLOOD LAMP SHAPED CONCENTRATING
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TOTAL SOLAR APPLICATIONS.

CONCENTRATING SOLAR COLLECTORS.

1977. (SEPT.). ERDA CONF.,

ATLANTA. PROC. SOLAR CONCENTRATING

COLLECTORS. P. 5-121-8. THE CONF.,

1977? (621.4776744S)

GRIMMER, DERRICK P. (Q-11)

57-3

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J. VAC. SCI. TECHNOL.,

V. 15, P. 59-64. 1978.

GRIMMER, DERRICK P. (Q-24)

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SOLAR - THERMOCHEMICAL PRODUCTION
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1978. 16P. MN (LA-UR-78-1052)

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SOLAR COLLECTORS FOR COOLING
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1978. 10P. MN (LA-UR-78-929)

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TIC

1978. 26P. MN (LA-UR-78-1297)

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58-1
DENSITY GRADIENT DRIFT INSTABILITIES.
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PHYS. FLUIDS,
V.21, P.1181-7. 1978.
GARY, S. PETER (CTR-6)
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58-2
EFFECTS OF AN AXIAL HEAT FLUX
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PHYS. FLUIDS,
V.21, P.2103-7. 1978.
GARY, S. PETER (CTR-6)
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58-3
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TIC,
1978. 19P. MN (LA-UR-78-1193)
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58-4
ENERGY ANISOTROPY INSTABILITIES IN
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PHYS. FLUIDS,
V.21, P.1790-1802. 1978.
CAYTON, THOMAS (CTR-6)

58-5
FINITE LARMOR RADIUS EQUATIONS
IN AN ARBITRARY NEAR - THETA
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PHYS. FLUIDS,
V.21, P.1218-26. 1978.
PEARLSTEIN, L. D.
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58-6
INFRARED HETERODYNE INTERFEROMETER
FOR MULTICHORD PLASMA DENSITY
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HIGH-TEMPERATURE PLASMA DIAGNOSTICS.
1978. 2ND TOPICAL CONF., SANTA FE,
NM. ABSTRACTS, P.59. (LA-7160-C)
JACOBSON, ABRAHAM R. (CTR-2)

58-7
MICROWAVE ABSORPTION STUDIES
NEAR THE PLASMA FREQUENCY.
TIC,
1978. 5P. MN (LA-UR-78-51)
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58-8
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PHYS. FLUIDS,
V.21, P.1808-17. 1978.
SHANAHAN, WILLIAM R. (T-15)

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LOWER HYBRID DRIFT INSTABILITY.
PHYS. FLUIDS,
V.21, P.1017-25. 1978.
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58-10
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PHYS. FLUIDS,
V.21, P.1509-12. 1978.
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PHYS. FLUIDS,
V.21, P.1207-17. 1978.
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LASL,
1978. 3P. (LA-7127-MS)
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LASL,
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LASL,
1978. 57P. (LA-7538-MS)
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TIC
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LASL,
1978. 22P. (LA-7314-MS)
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RIJNHUIZEN-78-108	39-19
U.S. PATENT-4,075,632	16-13
U.S. PATENT-4,080,273	4-1
U.S. PATENT-4,090,012	16-5
U.S. PATENT-4,095,121	33-14

PUBLICATION TABULATION

A. JOURNAL ARTICLES--
489 articles in 160 journals.

ACTA CRYSTALLOGRAPHICA--2
ADVANCES IN CRYOGENIC
ENGINEERING-3
AMERICAN INDUSTRIAL HYGIENE
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AMERICAN JOURNAL OF PHYSICS-1
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BIOPHYSICAL JOURNAL-3
BRITISH JOURNAL OF CANCER-1

BRITISH JOURNAL OF RADIOLOGY-4
BULLETIN OF THE AMERICAN
ASTRONOMICAL SOCIETY-1
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