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**PUBLICATIONS OF LOS ALAMOS RESEARCH
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INTRODUCTION

Los Alamos National Laboratory, which is operated for the US Department of Energy (DOE) by the University of California, was founded in 1943 as part of the wartime Manhattan Project at the site of the Los Alamos Ranch School, a boys' preparatory school in the mountains of northern New Mexico. 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, Los Alamos now devotes about one-half of its total effort to unclassified research, exploring several peaceful applications of nuclear, conventional, and alternative forms of energy. Los Alamos 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 activities at Los Alamos are 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; and 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 the Los Alamos Meson Physics Facility, where physics experiments are carried out and where production of a variety of radi isotopes for medical use is under way, an 800-MeV, 1-mA-beam linear accelerator produces 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, ZT-40, is a toroidal reversed-field pinch device for controlled thermonuclear research involving magnetic confinement of hot plasmas for fusion research. A Central Computing Facility with four Cray-1s, two Cray X-MPs, four CDC 7600s, three Cyber 825s, and one Cyber 855 assists in the Laboratory's research.

The Laboratory as of 1984 employed approximately 7500 persons, about one-third of whom are scientists and engineers. The total operating costs of the Laboratory, excluding construction, are about \$640 million per year. The investment in DOE-owned buildings and capital equipment at Los Alamos is over \$920 million.

PREFACE

The Los Alamos Libraries' continuing program of locating, recording, and announcing publications of Los Alamos-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, Vols. I and II), "Publications of Los Alamos Research, 1977-1981" (LA-9435-MS, Vols. I and II), "Publications of Los Alamos Research 1982" (LA-9800-MS), and "Publications of Los Alamos Research 1983" (LA-10155-MS).

This bibliography is a compilation of unclassified publications of work done at Los Alamos National Laboratory for 1984. Publications not included 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 National Laboratory reports, papers released as non-Laboratory reports, journal articles, books, chapters of books, conference papers either published separately or as part of conference proceedings issued as books or reports, papers published in congressional hearings, theses, and US patents. Publications by Los Alamos 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, and 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 when 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 Los Alamos 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.

The author and numeric 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 numeric index, the LA- and LA-xxxx-MS, etc., numbers of reports are interfiled.

A Keyword-in-Context index included in earlier compilations is not provided.

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The Libraries gratefully acknowledge the assistance of members of the Laboratory's Administrative Data Processing Division for assistance with the computerized system for handling publication information.

2. BIOLOGY AND MEDICINE

- 2-1
ALTERATIONS IN THE METABOLISM OF BENZO(A)PYRENE IN SYRIAN HAMSTER EMBRYO (SHE) CELLS PRETREATED WITH PHENOLIC ANTIOXIDANTS.
TIC,
1983. 16P. MN (LA-UR-83-3093)
STRNISTE, GARY F. (LS-3)
OKINAKA, RICHARD T. (LS-3)
CHEN, DAVID JEN-CHI (LS-3)
- 2-2
ANNUAL REPORT OF THE LIFE SCIENCES DIVISION, 1983.
LOS ALAMOS,
1984. 117P. (LA-10058-PR)
ENGER, M. DUANE (LS-DO)
STAFFORD, CAROLYN G. (LS-DO)
KARL, SHEILA K. (LS-DO)
- 2-3
APPROACH TO SINGLE MOLECULE DETECTION BY LASER - INDUCED FLUORESCENCE. LASER-BASED ULTRASENSITIVE SPECTROSCOPY AND DETECTION, 5TH, 1983, SAN DIEGO. PROC., P.71-3. SPIE, 1983. (621.366/L343BA/1983)
ALSO PUBLISHED IN:
TIC,
1983. 4P. MN (LA-UR-83-2665)
DOVICH, NORMAN J. (CNC-2)
MARTIN, JOHN C. (LS-4)
JETT, JAMES H. (LS-4)
TRKULA, MITCHELL (CHM-2)
KELLER, RICHARD A. (CHM-2)
- 2-4
ASSIGNMENT OF GENES ENCODING METALLOTHIONEINS I AND II TO CHINESE HAMSTER CHROMOSOME 3 - EVIDENCE FOR THE ROLE OF CHROMOSOME REARRANGEMENT IN GENE AMPLIFICATION.
MOL. CELL. BIOL.,
V.4, P.2932-5. 1984.
STALLINGS, R. L.
MUNK, A. CHRISTINE (LS-3)
LONGMIRE, JERRY L. (LS-3)
HILDEBRAND, CARL E. (LS-3)
CRAWFORD, BRIAN D. (LS-3)
- 2-5
ATTEMPTED INDUCTION OF RESISTANCE TO MELPHALAN BY PRETREATING CHINESE HAMSTER CELLS WITH SUBTOXIC DOSES OF THE DRUG.
LOS ALAMOS,
1984. 10P. (LA-10176-MS)
KAYE, M. F.
TOBEY, ROBERT A. (LS-4)
- 2-6
BIOPHYSICS OF CELL SURFACE MOTILITY. CELL SURFACE DYNAMICS — CONCEPTS AND MODELS, A.S. PERELSON, C. DELISI, F.W. WIEGEL, EDS., P.495-537. DEKKER, 1984.
DEMBO, MICAH (T-10)
HARLOW, FRANCIS H. (T-3)
ALT, WOLFGANG
- 2-7
CARBIB 13-ENRICHED SUBSTRATES FOR IN SITU AND IN VIVO METABOLIC PROFILING STUDIES BY CARBON 13 NMR. STABLE ISOTOPES IN NUTRITION, 1983, WASHINGTON. PROC., P.157-73. ACS, 1984. (612.3/S775IS/1983)
BRAINARD, JAMES R. (INC-4)
HUTSON, JUDITH C (INC-4)
LONDON, ROBERT E. (INC-4)
MATWIYOFF, NICHOLAS A. (INC-DO)
- 2-8
CELL - CELL ADHESION - PARAMETERS AND POSSIBLE MECHANISMS. CELL SURFACE DYNAMICS - CONCEPTS AND MODELS, A.S. PERELSON, C. DELISI, F.W. WIEGEL, EDS., P.459-87. MARCEL DEKKER, 1984.
BONGRAND, PIERRE
BELL, GEORGE I. (T-DO)
- 2-9
CELL ADHESION - COMPETITION BETWEEN NONSPECIFIC REPULSION AND SPECIFIC BONDING.
BIOPHYS. J.,
V.45, P.1051-63. 1984.
BELL, GEORGE I. (T-DO)
DEMBO, MICAH (T-10)
BONGRAND, PIERRE
- 2-10
CELLULAR AUTOMATA IN CYTOSKELETAL LATTICES.
PHYSICA,
V.10D, P.168-73. 1984.
SMITH, STEVEN A. (C-6)
WATT, RICHARD C.
HAMEROFF, STUART R.
- 2-11
CHANGES IN HISTONE 1 CONTENT AND CHROMATIN STRUCTURE OF CELLS BLOCKED IN EARLY S PHASE BY 5-FLUORODEOXYURIDINE AND APHIDICOLIN.
BIOCHEMISTRY,
V.23, P.5024-8. 1984.
D'ANNA, JOSEPH A. (LS-1)
TOBEY, ROBERT A. (LS-1)
- 2-12
CHROMOSOME POLYMORPHISM INVOLVING HETEROCHROMATIC BLOCKS IN CHINESE HAMSTER CHROMOSOME 9. CYTOGENET. CELL GENET.,
V.38, P.257-64. 1984.
RAY, FRANK A. (LS-4)
BARTHOLDI, MARTY FRANK (LS-4)
KRAEMER, PAUL M. (LS-4)
CRAM, L. SCOTT (LS-4)
- 2-13
CONSTRUCTION AND ANALYSIS OF DNA SEQUENCE LIBRARIES FROM FLOW - SORTED CHROMOSOMES - PRACTICAL AND THEORETICAL CONSIDERATIONS. NUCLEIC ACIDS RES.,
V.12, P.4019-32. 1984.
GRIFFITH, JEFFREY KNOWLES (LS-3)
CRAM, L. SCOTT (LS-4)
CRAWFORD, BRIAN D. (LS-3)
JACKSON, PAUL J. (LS-4)
SCHILLING, J.
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JETT, JAMES H. (LS-4)
WILDER, MARK E. (LS-4)
- 2-14
COULTER VOLUME CELL SORTING TO IMPROVE THE PRECISION OF RADIATION SURVIVAL ASSAYS.
RADIAT. RES.,
V.97, P.608-14. 1984.
FREYER, JAMES P. (LS-1)
WILDER, MARK E. (LS-4)
RAJU, MUDUNDI R. (LS-1)
- 2-15
COUNTERSTAINING HUMAN CHROMOSOMES FOR FLOW KARYOLOGY. CYTOMETRY,
V.5, P.580-3. 1984.
MEYNE, JULIANNE (LS-4)
BARTHOLDI, MARTY FRANK (LS-4)
TRAVIS, GAYLE LEE (LS-4)
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- 2-16
CULTIVATION OF MURINE BONE MARROW MACROPHAGES IN SPONGES - A METHOD THAT PERMITS RECOVERY OF VIABLE CULTURED CELLS.
J. IMMUNOL. METHODS,
V.75, P.149-58. 1984.
AKPORIAYE, EMMANUEL T.
STEWART, S. J. (LS-4)
STEWART, CARLETON (LS-4)

- 2-17
DETECTION OF ELEMENTS IN BIOMEDICAL FLUIDS BY LASER - INDUCED BREAKDOWN SPECTROSCOPY.
TIC,
1983. 25P. MN (LA-UR-83-3391)
LOREE, THOMAS R. (CHM-6)
- 2-18
DIFFUSION LIMITED FORWARD RATE CONSTANTS IN TWO DIMENSIONS - APPLICATION TO THE TRAPPING OF CELL SURFACE RECEPTORS BY COATED PITS.
BIOPHYS. J.,
V.46, P.573-86. 1984.
GOLDSTEIN, BYRON (T-10)
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- 2-19
EFFECTS OF CADMIUM ON GLUTATHIONE METABOLISM IN CADMIUM SENSITIVE AND CADMIUM RESISTANT CHINESE HAMSTER CELL LINES.
TOXICOLOGY,
V.29, P.101-7. 1983.
SEAGRAVE, JEANCLARE (LS-3)
HILDEBRAND, CARL E. (LS-3)
ENGER, M. DUANE (LS-3)
- 2-20
ENZYME REGULATION AND GTP BINDING PROTEIN - AN ALGORITHM OF CONTROL THAT INCLUDES PHYSICAL DISPLACEMENT OF AN INHIBITORY PROTEIN.
ADV. CYCL. NUCL. PROT. PHOS. RES.,
V.16, P.381-90. 1984.
YAMAZAKI, AKIO (LS-DO)
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STEIN, PETER J.
WHEELER, GEORGE L. (LS-DO)
BITENSKY, MARK W. (LS-DO)
- 2-21
EQUILIBRIUM THEORY FOR THE CLUSTERING OF BIVALENT CELL SURFACE RECEPTORS BY TRIVALENT LIGANDS - APPLICATION TO HISTAMINE RELEASE FROM BASOPHILS.
BIOPHYS. J.,
V.45, P.1109-22. 1984.
GOLDSTEIN, BYRON (T-10)
PERELSON, ALAN S. (T-10)
- 2-22
EVIDENCE THAT TWO HYDROGEN BONDS COUPLE 2-AMINOPURINE-CYTOSINE BASE MISPAIRS IN DNA - A POSSIBLE OBSERVATION OF A DISFAVORED BASE TAUTOMER.
CELLULAR RESPONSES TO DNA DAMAGE,
1983, KEYSTONE. PROC., P.459-70.
A.R. LISS, 1983.
(574.873/L393RE/1983)
GOODMAN, MYRON F.
RATLIFF, ROBERT L. (LS-3)
- 2-23
FLOW CYTOMETRIC DETERMINATION OF RADIATION-INDUCED CHROMOSOME DAMAGE AND ITS CORRELATION WITH CELL SURVIVAL.
RADIAT. RES.,
V.99, P.F44-51. 1984.
WELLEWEERD, J.
WILDER, MARK E. (LS-4)
CARPENTER, SUSAN G. (LS-1)
RAJU, MUDUNDI R. (LS-1)
- 2-24
FLOW CYTOMETRIC QUANTIFICATION OF RADIATION RESPONSES OF MURINE PERITONEAL CELLS.
BIOLOGICAL DOSIMETRY, 1982, MUNICH.
PROC., P.265-71. SPRINGER-VERLAG,
1984.
ALSO PUBLISHED IN:
TIC,
1982. 20P. MN (LA-UR-82-3658)
TOKITA, NOBUHIKO (LS-1)
RAJU, MUDUNDI R. (LS-1)
- 2-25
FLOW CYTOMETRY.
REV. SCI. INSTRUM.,
V.55, P.1375-97. 1984.
STEINKAMP, JOHN A. (LS-4)
- 2-26
FLOW KARYOLOGY OF SERIALY CULTURED CHINESE HAMSTER CELL LINEAGES.
CYTOMETRY,
V.5, P.534-8. 1984.
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HUMAN VARIATIONS - DELTA CARBON 13 IN ADULT BONE COLLAGEN AND THE RELATION TO DIET IN AN ISOCHRONOUS CARBON 4 (MAIZE) ARCHAEOLOGICAL POPULATION.
LOS ALAMOS,
1984. 188P. (LA-10259-T)
BUMSTED, M. PAMELA (CHM-1)
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IN SITU OXYGEN CONSUMPTION RATES OF CELLS IN V - 79 MULTICELLULAR SPHEROIDS DURING GROWTH.
J. CELL. PHYSIOL.,
V.118, P.53-61. 1984.
FREYER, JAMES P. (LS-1)
TUSTANOFF, E.
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SUTHERLAND, R. M.
- 2-29
IN VIVO STUDIES OF PYRIDINE NUCLEOTIDE METABOLISM IN ESCHERICHIA COLI AND SACCHAROMYCES CEREVISIAE BY CARBON-13 NMR SPECTROSCOPY.
J. BIOL. CHEM.,
V.259, P.2311-20. 1984.
UNKEFER, CLIFFORD, J. (INC-4)
LONDON, ROBERT E. (INC-4)
- 2-30
INFORMATION STORAGE IN DNA SEQUENCES.
TIC,
1983. 24P. MN (LA-UR-83-1308)
BURKS, CHRISTIAN (T-10)
- 2-31
INSTRUMENT FOR VIRUS IDENTIFICATION BY POLARIZED LIGHT SCATTERING - A PRELIMINARY REPORT.
TIC,
1984. 11P. MN (LA-UR-84-1841)
SALZMAN, GARY C. (LS-DO)
GREGG, CHARLES T. (LS-DO)
- 2-32
KINETICS OF CELL-MEDIATED CYTOTOXICITY STOCHASTIC AND DETERMINISTIC MULTISTAGE MODELS.
MATH. BIOSCI.,
V.70, P.161-84. 1984.
PERELSON, ALAN S. (T-10)
MACKEN, CATHERINE A.
- 2-33
KINETICS OF ROULEAU FORMATION. II. REVERSIBLE REACTIONS.
BIOPHYS. J.,
V.45, P.805-23. 1984.
SAMSEL, RICHARD W.
PERELSON, ALAN S. (T-10)
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LIGHT ACTIVATION OF A COMPLEX MIXTURE. EFFECTS OF UV EXCISION REPAIR ON THE MODULATION OF GENOTOXIC AND MOLECULAR EVENTS IN CHINESE HAMSTER CELLS.
PHOTOCHEM. PHOTOBIOI.,
V.39, P.353-8. 1984.
OKINAKA, RICHARD T. (LS-3)
BINGHAM, JUDY MARIE (LS-3)
MAC INNES, MARK A. (LS-3)
STRNISTE, GARY F. (LS-3)
- 2-35
LIGHT ACTIVATION OF GENOTOXIC COMPONENTS IN NATURAL AND SYNTHETIC CRUDE OILS. LIFE SCIENCES SYMPOSIUM, 5TH, 1982, GATLINBURG, PROC., P.475-90.
BUTTERWORTH, 1984.
ALSO PUBLISHED IN:
TIC,
1982, 31P, MN (LA-UR-82-3127)
STRNISTE, GARY F. (LS-3)

- 2-36
MECHANISM OF ACTIVATION OF LIGHT-ACTIVATED PHOSPHODIESTERASE AND EVIDENCE FOR HOMOLGY WITH HORMONE-ACTIVATED ADENYLATE CYCLASE.
ADV. CYCL. NUCL. PROT. PHOS. RES., V. 17, P.227-37. 1984.
BITENSKY, MARK W. (LS-DO)
YAMAZAKI, AKIO (LS-DO)
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J. IMMUNOL., V.132, P.2190-97. 1984.
PERELSON, ALAN S. (T-10)
MACKEN, CATHERINE A.
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BONAVIDA, BENJAMIN
- 2-38
MODIFICATION OF DAVYDOV SOLITONS BY THE EXTRINSIC HYDROGEN-NITROGEN-CARBON EQUALS OXYGEN GROUP.
TIC, 1983. 30P. MN (LA-UR-83-2253)
LAYNE, SCOTT P. (CNLS)
- 2-39
MOLECULAR AND SOMATIC CELL GENETIC ANALYSIS OF METAL RESISTANCE MECHANISMS IN MAMMALIAN CELLS.
TIC, 1983. 20P. MN (LA-UR-83-2677)
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HILDEBRAND, CARL E. (LS-3)
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- 2-40
MULTISTAGE MODEL FOR THE ACTION OF CYTOTOXIC T LYMPHOCYTES IN MULTICELLULAR CONJUGATES.
J. IMMUNOL., V.132, P.1614-24. 1984.
MACKEN, CATHERINE A.
PERELSON, ALAN S. (T-10)
- 2-41
NEWBORN HUMAN SKIN FIBROBLASTS SENESCE IN VITRO WITHOUT ACQUIRING ADULT GROWTH FACTOR REQUIREMENTS.
EXP. CELL RES., V.154, P.310-4. 1984.
WHARTON, W. R. (LS-4)
- 2-42
NONLINEAR DYNAMICS OF GLOBULAR PROTEINS. INTERNATIONAL CONFERENCE ON NONLINEAR ELECTRODYNAMICS IN BIOLOGICAL SYSTEMS 1983, LOMA LINDA. PROC., P.143-54. PLENUM, 1984.
ALSO PUBLISHED IN:
TIC, 1983. 13P. MN (LA-UR-83-2252)
LOMDAHL, PETER S. (CNLS)
- 2-43
NONLINEAR ELECTRODYNAMICS IN CYTOSKELETAL PROTEIN LATTICES.
TIC, 1983. 18P. MN (LA-UR-83-2431)
HAMEROFF, STUART R.
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- 2-44
PARTICULATE OIL SHALE INHALATION AND PULMONARY INFLAMMATORY RESPONSE IN RATS.
TIC, 1983. 23P. MN (LA-UR-83-3583)
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PERIODIC STRUCTURALLY SIMILAR OLIGOMERS ARE FOUND ON ONE SIDE OF THE AXES OF SYMMETRY IN THE LAC, TRP, AND GAL OPERATORS.
J. BIOMOL. STRUCT. DYN., V.2, P.387-94. 1984.
NUSSINOV, RUTH (T-10)
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- 2-46
PHOTOTRANSFORMATION OF POLYCYCLIC AROMATIC HYDROCARBONS INTO STABLE, MUTAGENIC COMPONENTS.
TIC, 1983. 13P. MN (LA-UR-83-3110)
OKINAKA, RICHARD T. (LS-3)
NICKOLS, JOYCE W. (LS-3)
WHALEY, THOMAS W. (LS-5)
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- 2-47
POSSIBLE MECHANISM FOR GENERAL ANESTHESIA.
LOS ALAMOS SCI., SPRING, NO.10, P.23-31. 1984.
LAYNE, SCOTT P. (CNLS)
- 2-48
PREPARATION AND CHARACTERIZATION OF LUNG CELL SUSPENSIONS FROM TWO RODENT SPECIES.
LOS ALAMOS, 1984. 11P. (LA-10179-MS)
WILSON, JULIE S. (LS-1)
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- 2-49
PREPARATION OF HISTONE VARIANTS AND HIGH-MOBILITY GROUP PROTEINS BY REVERSED-PHASE HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY.
J. CHROMATOGR., V.297, P.147-65. 1984.
GURLEY, LAWRENCE R. (LS-1)
D'ANNA, JOSEPH A. (LS-1)
BLUMENFELD, M.
VALDEZ, JOSEPH G. (LS-1)
SEBRING, ROBERT, J. (LS-1)
DONAHUE, D. K.
PRENTICE, DAVID A. (LS-1)
SPALL, W. DALE (LS-1)
- 2-50
PRESERVATION OF FC BETA RECEPTOR MEDIATED PARTICLE PHAGOCYTOSIS AND BINDING WITH RAT ALVEOLAR MACROPHAGES ADHERED TO A PLASTIC SUBSTRATE IN A SERUM FREE SYSTEM.
IMMUNOL. COMMUN., V.13, P.313-23. 1984.
LEHNERT, BRUCE E. (LS-1)
MORROW, PAUL E.
- 2-51
RADIOFREQUENCY AND MAGNET TECHNOLOGY IN MEDICAL NMR.
TIC, 1984. 6P. MN (LA-UR-84-1122)
FUKUSHIMA, EIICHI (INC-4)
- 2-52
RAPID MICROBIAL IDENTIFICATION BY CIRCULAR INTENSITY DIFFERENTIAL SCATTERING.
TIC, 1984. 28P. MN (LA-UR-84-1796)
GREGG, CHARLES T. (LS-DO)
SALZMAN, GARY C. (LS-DO)
- 2-53
REGULATION OF MONONUCLEAR PHAGOCYTE PROLIFERATION. RETICULOENDOTHELIAL SYSTEM, S. M. REICHARD AND J. P. FILKINS, EDS., P.37-53. PLENUM, 1984.
STEWART, C. C. (LS-4)
- 2-54
SELECTION, ISOLATION, AND CHARACTERIZATION OF CADMIUM-RESISTANT DATURA INNOXIA SUSPENSION CULTURES.
PLANT PHYSIOL., V.75, P.914-8. 1984.
JACKSON, PAUL J. (LS-4)
ROTH, E. JILL
MC CLURE, PETER R. (LS-6)
NARANJO, CLEO M. (LS-3)

2-55
SOFT X RAYS AS A TOOL TO INVESTIGATE
RADIATION - SENSITIVE SITES IN
MAMMALIAN CELLS.

SCIENCE WITH SOFT X-RAYS, 1983,
UPTON. PROC., P.172-9. SPIE, 1984.
(621.361/S416W1/1983)

ALSO PUBLISHED IN:

TIC,

1983. 9P. MN (LA-UR-83-3156)

BRENNER, DAVID J. (MP-3)

ZAIDER, MARCO (MP-3)

2-56
SOLITONS IN BIOLOGY.

LOS ALAMOS SCI.,

SPRING, NO.10, P.3-21. 1984.

LOMDAHL, PETER S. (CNLS)

LAYNE, SCOTT P. (CNLS)

BIGIO, IRVING J. (CHM-5)

2-57
SOLITONS IN SYNTHETIC AND BIOLOGICAL
POLYMERS.

INTERNATIONAL CONFERENCE ON NONLINEAR
ELECTRODYNAMICS IN BIOLOGICAL SYSTEMS

1983, LOMA LINDA. PROC., P.155-73.

PLENUM, 1984.

ALSO PUBLISHED IN:

TIC,

1983. 22P. MN (LA-UR-84-0429)

BISHOP, ALAN R. (T-11)

2-58
STATISTICAL PENETRATION OF DIFFUSE LIGHT
INTO VEGETATIVE CANOPIES - EFFECT ON
PHOTOSYNTHETIC RATE AND UTILITY FOR
CANOPY MEASUREMENT.

AGRIC. METEOROL.,

V.30, P.327-41. 1984.

GUTSCHICK, VINCENT P. (LS-6)

2-59
TOXICOLOGICAL STUDY OF UNISET
(UV - 990 - 22 - 1).

LOS ALAMOS,

1984. 5P. (LA-10239-MS)

LONDON, JERRY E. (LS-1)

SMITH, DAVID M. (LS-1)

2-60
TUMORIGENICITY ASSAYS IN NUDE MICE-
ANALYSIS OF THE IMPLANTED GELATIN
SPONGE METHOD.

WORKSHOP ON IMMUNE-DEFICIENT
ANIMALS, 1982, CHEXBRES.

PROC., P.214-9. KARGER, 1984.

ALSO PUBLISHED IN:

TIC,

1982. 16P. MN (LA-UR-82-3146)

KRAEMER, PAUL M. (LS-4)

TRAVIS, GAYLE LEE (LS-4)

SAUNDERS, GEORGE C. (LS-4)

RAY, FRANK A. (LS-4)

STEVENSON, ANITA P. (LS-4)

BAME, KAREN (LS-4)

CRAM, L. SCOTT (LS-4)

2-61
WHAT IS A SOLITON?
LOS ALAMOS SCI.,
SPRING, NO.10, P.27-31. 1984.
LOMDAHL, PETER S. (CNLS)

2-62
X - RAY IMAGING OF BIOLOGICAL SPECIMENS.
INTERNATIONAL CONFERENCE ON LASERS,
1983, SAN FRANCISCO. PROC., P.635-40.
STS PRESS, 1983.

SOLEM, JOHNDALE C. (T-DO)

3. CHEMICAL HIGH EXPLOSIVES

- 3-1
APPLICATION OF SLAPPER DETONATOR TECHNOLOGY TO THE DESIGN OF SPECIAL DETONATION SYSTEMS.
TIC,
1984. 29P. MN (LA-UR-84-0391)
MEYERS, W. H. (M-7)
- 3-2
BURNING TOPOLOGY IN THE SHOCK -INDUCED REACTION OF HETEROGENEOUS EXPLOSIVES. SHOCK WAVES IN CONDENSED MATTER, 1983, SANTA FE. PROC., P.601-4.
ELSEVIER, 1984.
WACKERLE, JERRY D. (M-1)
ANDERSON, ALLAN B. (M-1)
- 3-3
COMPARISON OF THE SHOCK AND STATIC COMPRESSION CURVES FOR FOUR SOLID EXPLOSIVES.
J. ENERG. MATER.,
V.1, P.275-86. 1983.
DICK, JERRY JOEL (M-3)
- 3-4
EFFECT OF CRYSTAL ORIENTATION ON SHOCK INITIATION SENSITIVITY OF PENTAERYTHRITOL TETRANITRATE EXPLOSIVE.
APPL. PHYS. LETT.,
V.44, P.859-61. 1984.
DICK, JERRY JOEL (M-3)
- 3-5
EUTECTIC EXPLOSIVES CONTAINING AMMONIUM NITRATE. FINAL REPORT - OCTOBER 1979 THROUGH SEPTEMBER 1981.
LOS ALAMOS,
1984. 14P. (LA-09973-MS)
STINECIPHER, MARY M. (M-1)
- 3-6
EVALUATION OF THE FUNDAMENTAL RESEARCH ON EXPLOSIVES (FRE) PROGRAM.
LOS ALAMOS,
1984. 19P. (LA-10152-MS)
RIVERA, THOMAS (M-1)
RABIE, RONALD L. (M-1)
- 3-7
HIGH - TEMPERATURE - STABLE DETONATORS.
LOS ALAMOS,
1984. 6P. (LA-10172-MS)
DINEGAR, ROBERT H. (M-7)
- 3-8
MODEL FOR COMPUTING LATE DETONATIONS INITIATED IN PROPELLANTS BY IMPACT (XDT REACTIONS).
LOS ALAMOS,
1984. 42P. (LA-10270-MS)
KARPP, ROBERT R. (M-4)
- 3-9
NONPRIMARY - EXPLOSIVE, HOT - WIRE DETONATOR.
LOS ALAMOS,
1984. 7P. (LA-10173-MS)
DINEGAR, ROBERT H. (M-7)
- 3-10
OIL/HIGH EXPLOSIVE COMPATIBILITY STUDY SELECTION OF SAFING FLUIDS FOR DAMAGED EXPLOSIVES ASSEMBLIES.
PROPELLANTS EXPLOS. PYROTECH.,
V.9, P.7-11. 1984.
HARRIS, BETTY W. (M-1)
- 3-11
OPTICAL DIAGNOSTICS FOR CONDENSED PHASE SHOCK - COMPRESSED MOLECULAR SYSTEMS.
TIC,
1983. 69P. MN (LA-UR-83-2847)
SCHMIDT, STEPHEN C. (M-6)
MOORE, DAVID S. (CHM-4)
SHANER, J. W. (M-6)
- 3-12
SCALE UP OF HIGH EXPLOSIVE 5,7 DINITRO - 1 - PICRYLBENZOTRIAZOLE.
LOS ALAMOS,
1984. 99P. (LA-09961-T)
SANCHEZ, J. A. (M-1)
- 3-13
SHOCK INITIATION OF DETONATION IN A DILUTE EXPLOSIVE.
PHYS. FLUIDS,
V.27, P.94-105. 1984.
FICKETT, WILDON (M-3)
- 3-14
SHORT - DURATION SHOCK INITIATION OF TRIAMINOTRINITROBENZENE (TATB) SHOCK WAVES IN CONDENSED MATTER, 1983, SANTA FE. PROC., P.531-4.
ELSEVIER, 1984.
SEITZ, WENDELL LEE (WX-2)
- 3-15
THREE - DIMENSIONAL COMPUTER MODELING OF A SHOCK RECOVERY EXPERIMENT.
TIC,
1983. 5P. MN (LA-UR-83-2138)
RABIE, RONALD L. (M-1)
VORTHMAN, JOHN E. (M-1)
DIENES, JOHN K. (T-3)
- 3-16
THREE - DIMENSIONAL HYDRODYNAMIC HOT-SPOT MODEL APPLIED TO PETN, HMX, TATB, AND NQ.
LOS ALAMOS,
1984. 38P. (LA-10203-MS)
MADER, CHARLES L. (T-14)
KERSHNER, JAMES D. (T-14)
- 3-17
THREE - DIMENSIONAL MODELING OF INERT METAL - LOADED EXPLOSIVES.
J. ENERG. MATER.,
V.1, P.293-324. 1983.
MADER, CHARLES L. (T-14)
KERSHNER, JAMES D. (T-14)
PIMBLEY, GEORGE H. (T-14)
- 3-18
TOXICOLOGICAL STUDY OF THE HIGH EXPLOSIVE FORMULATION IMIDAZO(4,5-D)IMIDAZOLE-2,5(1H,3H) DIONE, TETRAHYDRO-1,4-DINITRO.
LOS ALAMOS,
1984. 5P. (LA-09999-MS)
LONDON, JERRY E. (LS-1)
SMITH, DAVID M. (LS-1)

4. CHEMICAL SEPARATIONS PROCESSES FOR PLUTONIUM AND URANIUM

4-1

ATOMIC SPECTRUM OF PLUTONIUM.
ATOMIC SPECTRUM OF PLUTONIUM, J.
BLAISE, M. FRED & R.G. GUTMACHER.
612 P. ARGONNE NATIONAL LABORATORY,
1984. (ANL-83-95)
BLAISE, JEAN
FRED, MARK
GUTMACHER, R. G. (Q-4)

4-2

MATERIALS SCIENCE AND TECHNOLOGY (MST)
DIVISION NUCLEAR MATERIALS PROCESS
TECHNOLOGY GROUP (MST-12) CHEMICAL
PROCESS RESEARCH AND DEVELOPMENT REPORT.
LOS ALAMOS,
1984. 25P. (LA-10061-SR)
CLIFTON, DAVID G. (MST-12)

4-3

NONAQUEOUS PROCESSING METHODS.
LOS ALAMOS,
1984. 11P. (LA-10169-MS)
COOPS, M. S.
BOWERSOX, DAVID F. (MST-11)

5. CHEMISTRY

- 5-1
ACCOMPLISHMENTS AND PROMISE OF
TRANSPUTONIUM RESEARCH.
PHYS. TODAY,
V.37, NO.3, P.35-41. 1984.
KELLER, O. L.
HOFFMAN, DARLEANE C. (INC-DO)
PENNEMAN, ROBERT A. (INC-4)
CHOPPIN, GREGORY R. (INC-4)
- 5-2
AIR - STABLE REFERENCE MATERIAL FOR
MEASUREMENT OF THE OXYGEN - TO - METAL
(O/M) RATIO OF NUCLEAR FUEL
TIC,
1983. 6P. MN (LA-UR-83-2613)
HAMMOND, C. F. (CHM-1)
HONNELL, RICHARD E. (MST-6)
REIN, JAMES E. (CHM-1)
- 5-3
ANALYSIS OF MOLECULAR HYDROGEN
USING SPONTANEOUS RAMAN SPECTROSCOPY.
CONFERENCE ON ANALYTICAL CHEMISTRY
IN ENERGY TECHNOLOGY, 26TH, 1983,
KNOXVILLE. PROC., P.355-6. ELSEVIER,
1984.
VEIRS, KIRK D. (CHM-2)
ROSENBLATT, GERD M. (CHM-DO)
- 5-4
ANALYTIC RESULTS FOR FINITE SYSTEMS OF
RINGED FLORY POLYMERS.
CAN. J. CHEM.,
V.62, P.1262-4. 1984.
SPOUGE, JOHN L. (T-10)
- 5-5
ANALYTICAL CAPABILITIES OF RIMS
ABSOLUTE SENSITIVITY AND ISOTOPIC
ANALYSIS.
SYMPOSIUM ON RESONANCE, IONIZATION,
MASS SPECTROSCOPY, 1984, KNOXVILLE.
PROC., P.81-5. INSTITUTE OF PHYSICS,
1984.
ALSO PUBLISHED IN:
TIC,
1984. 6P. MN (LA-UR-84-1325)
NOGAR, NICHOLAS S. (CHM-2)
DOWNEY, STEPHEN W. (CHM-2)
MILLER, CHARLES M. (INC-7)
- 5-6
APPLICATIONS OF SCANNING ELECTRON
MICROSCOPY TO THE STUDY OF MINERAL
MATTER IN PEAT.
TIC,
1983. 17P. MN (LA-UR-83-2578)
RAYMOND, ROBERT, JR. (ESS-2)
ANDREJKO, MICHAEL J.
BARDIN, S. W. (ESS-2)
- 5-7
CALCULATED PROPERTIES OF MATRIX ISOLATED
MUONIUM IN SOLID XENON.
J. CHEM. PHYS.,
V.81, P.2400-2. 1984.
ETTERS, RICHARD D. (M-6)
DERBYSHIRE, M.
- 5-8
CHEMISTRY DIVISION-
ORGANIZATIONAL PROFILE.
LOS ALAMOS,
1984. 5P. (LALP-84-041)
CHALLEM, JACK (IS-1)
- 5-9
COMPARISONS OF CLASSICAL AND QUANTUM
DYNAMICS FOR INITIALLY LOCALIZED
STATES.
J. CHEM. PHYS.,
V.80, P.5036-48. 1984.
DAVIS, MICHAEL J.
HELLER, ERIC J. (T-12)
- 5-10
CONSIDERATIONS FOR THE INSTALLATION OF
AN INDUCTIVELY COUPLED PLASMA FOR THE
ANALYSIS OF RADIOACTIVE SAMPLES.
CONFERENCE ON ANALYTICAL CHEMISTRY
IN ENERGY TECHNOLOGY, 26TH, 1983,
KNOXVILLE. PROC., P.213-6. ELSEVIER,
1984.
APEL, CHARLES T. (CMB-1)
GALLIMORE, DAVID L. (CHM-1)
- 5-11
CONSIDERATIONS FOR THE INSTALLATION OF
AN INDUCTIVELY COUPLED PLASMA FOR THE
ANALYSIS OF RADIOACTIVE SAMPLES.
TIC,
1983. 6P. MN (LA-UR-83-2905)
APEL, CHARLES T. (CHM-1)
GALLIMORE, DAVID L. (CHM-1)
- 5-12
CONTROLLED - POTENTIAL - COULOMETRIC
DETERMINATION OF URANIUM AT A
PLATINUM ELECTRODE.
TIC,
1983. 5P. MN (LA-UR-83-2970)
SAPONARA, NIJOLE M. (CHM-1)
JACKSON, DARRYL D. (CHM-1)
- 5-13
COVERAGE STUDY OF THE SELF-DIFFUSION
AND CHEMICAL DIFFUSION CONSTANTS FOR
DISORDERED OVERLAYERS OF XENON ON
TUNGSTEN (110).
SURF. SCI.,
V.139, P.478-90. 1984.
VALONE, STEVEN M. (CNC-2)
DOLL, JIMMIE D. (CHM-2)
- 5-14
DEPENDENCE OF REACTION ATTRIBUTES,
INCLUDING DIFFERENTIAL CROSS SECTIONS
AND RESONANCE FEATURES, ON CHANGES IN
THE POTENTIAL ENERGY SURFACE FOR THE
FLUORINE PLUS DEUTERIUM REACTION.
J. CHEM. PHYS.,
V.80, P.246-53. 1984.
WALKER, ROBERT B. (T-12)
BLAIS, NORMAND C. (CHM-2)
TRUHLAR, DONALD G.
- 5-15
DESOLVATION METHOD FOR ASSESSMENT OF
CRYSTALLIZATION ENERGIES AND ION
CROWDING IN RARE-EARTH PERCHLORATES,
CHLORIDES, AND NITRATES.
INORG. CHEM.,
V.23, P.2430-5. 1984.
ONSTOTT, EDWARD I. (CHM-2)
BROWN, LAURA B.
PETERSON, EUGENE J. (CHM-1)
- 5-16
DISPROPORTIONATION AND POLYMERIZATION
OF PLUTONIUM(IV) IN DILUTE AQUEOUS
SOLUTIONS.
MATERIALS RESEARCH SOCIETY SYMPOSIA,
1983, BOSTON. PROC., P.867-72.
ELSEVIER, 1984.
ALSO PUBLISHED IN:
TIC,
1983. 8P. MN (LA-UR-83-3295)
NEWTON, THOMAS W. (INC-2)
RUNDBERG, VIRGINIA L. (INC-11)
- 5-17
EFFECTS OF PHOSPHORIC ACID
CONCENTRATION ON OXYGEN REDUCTION
KINETICS AT PLATINUM.
J. ELECTRO. SOC.,
V.131, P.823-8. 1984.
HSUEH, K. L.
GONZALEZ, E. R.
SRINIVASAN, S. (E-11)
CHIN, D. T.
- 5-18
EFFICIENT FORWARD CONVERSION IN A
RAMAN GENERATOR.
TIC,
1984. 14P. MN (LA-UR-84-0635)
CARLSTEN, JOHN L. (CHM-6)
TELLE, JOHN M. (CHM-6)
WENZEL, ROBERT G. (CHM-6)

- 5-19
ELECTROCHEMISTRY AS A BASIS FOR RADIOCHEMICAL GENERATOR SYSTEMS. RADIONUCLIDE GENERATORS, NEW SYSTEMS FOR NUCLEAR MEDICINE APPLICATIONS, 1983, SEATTLE. PROC., P.169-75. ACS, 1984. (616.07/R129GE/1983)
BENTLEY, GLENN E. (INC-3)
STEINKRUGER, FREDERICK J (INC-3)
WANEK, PHILIP M. (INC-3)
- 5-20
ELECTROPHILIC RADIOBROMINATIONS OF HIPURIC ACID - AN EXAMPLE OF THE UTILITY OF ARYLTRIMETHYLSILANE INTERMEDIATES.
J. LABELLED COMPD., V.21, P.415-27. 1984.
WILBUR, D. SCOTT (INC-3)
SVITRA, ZITA V. (INC-3)
- 5-21
EQUILIBRIUM PRESSURES OVER THE SYSTEMS BISMUTH TRISULFATE-DIBISMUTHMONOXYDISULFATE AND DISBISMUTHMONOXYDISULFATE-DIBISMUTHDIOXYMOSULFATE - SLOW TRANSFORMATION BETWEEN TWO CRYSTALLINE FORMS OF DIBISMUTHMONOXYDISULFATE.
J. CHEM. PHYS., V.80, P.3408-19. 1984.
JONES, WESLEY M. (CHM-2)
- 5-22
EVALUATION OF THE INTRODUCTION OF STABLE NUCLIDES OF BROMINE INTO HIGH SPECIFIC ACTIVITY RADIOBROMINATIONS.
J. LABELLED COMPD. RADIOPHARM., V.21, P.767-78. 1984.
WILBUR, D. SCOTT (INC-3)
GARCIA, SAMMY R. (INC-5)
ADAM, M. J.
RUTH, T. J.
- 5-23
EVALUATION OF THE RELIABILITY OF SEVERAL TECHNIQUES FOR THE MEASUREMENT OF THE VOLUME FRACTION OF SECOND PHASE MATERIAL.
LOS ALAMOS, 1984. 14P. (LA-10133-MS)
JOHNSON, KAYE ALLAN (MST-13)
- 5-24
EXPERIMENTAL STUDY OF THE DYNAMICS OF THE HYDROGEN PLUS DEUTERIUM GOING TO HYDROGEN DEUTERIUM PLUS DEUTERIUM REACTION AT COLLISION ENERGIES OF 0.55 AND 1.30 EV.
J. CHEM. PHYS., V.81, P.1298-1313. 1984.
GERRITY, DANIEL P. (CHM-2)
VALENTINI, JAMES J. (CHM-2)
- 5-25
EXPLOSIVE DOUBLE SALTS AND PREPARATION. PATENTED
NOV. 6, 1984, FILED 1982.
(U.S.PATENT-4,481,048)
CADY, HOWARD H. (M-1)
LEE, KIEN Y. (M-1)
- 5-26
FLOWING AFTERGLOW STUDY OF URANIUM TETRABOROHYDRIDE.
CHEM. PHYS. LETT., V.112, P.169-72. 1984.
BABCOCK, LUCIA M. (CHM-2)
HERD, CHARLES R.
STREIT, GERALD E. (CHM-2)
- 5-27
FLOWING AFTERGLOW STUDY OF URANOCENE.
CHEM. PHYS. LETT., V.112, P.173-5. 1984.
BABCOCK, LUCIA M. (CHM-2)
HERD, CHARLES R.
STREIT, GERALD E. (CHM-2)
- 5-28
HIGH PRECISION ISOTOPIC ANALYSIS OF NANOGRAM QUANTITIES OF PLUTONIUM.
LOS ALAMOS, 1984. 12P. (LA-10013-MS)
PERRIN, RICHARD E. (INC-7)
KNOBELOCH, GORDON W. (INC-11)
ARMUJO, VONCILLE M. (INC-11)
EFURD, DEWARD W. (INC-7)
- 5-29
HIGH-RESOLUTION SPECTRA OF THE 1(1,1) COMING FROM $\alpha(0,0)$ ROTATIONAL TRANSITION OF WATER IN ARGON AND KRYPTON MATRICES.
CHEM. PHYS. LETT., V.105, P.547-50. 1984.
FRY, HERBERT A. (INC-4)
JONES, LLEWELLYN H. (INC-4)
SWANSON, BASIL I. (INC-4)
- 5-30
INFRARED LASER SPECTROSCOPY USING A LONG PATHLENGTH ABSORPTION CELL.
TIC, 1983. 16P. MN (LA-UR-83-1568)
KIM, KYU C. (CHM-4)
BRIESMEISTER, RICHARD A. (CHM-4)
- 5-31
ISOTOPE AND NUCLEAR CHEMISTRY DIVISION ANNUAL REPORT FY 1983.
LOS ALAMOS, 1984. 280P. (LA-10130-PR)
HOFFMAN, DARLEANE C. (INC-DO)
HEIKEN, JODY H. (INC-DO)
LINDBERG, HELEN A. (INC-DO)
- 5-32
LARGE SCALE ISOLATION OF 82 STRONTIUM FOR GENERATOR PRODUCTION. RADIONUCLIDE GENERATORS, NEW SYSTEMS FOR NUCLEAR MEDICINE APPLICATIONS, 1983, SEATTLE. PROC., P. 123-34. ACS, 1984. (616.07/R129GE/1983)
ALSO PUBLISHED IN:
TIC, 1983. 18P. MN (LA-UR-83-0939)
THOMAS, K. E. (INC-3)
BARNES, JOHN W. (INC-3)
- 5-33
LARGE-SCALE ISOLATION OF STRONTIUM 82 FOR GENERATOR PRODUCTION. RADIONUCLIDE GENERATORS, NEW SYSTEMS FOR NUCLEAR MEDICINE APPLICATIONS, 1983, SEATTLE. PROC., P.1614-24. ACS, 1984. (616.07/R129GE/1983)
THOMAS, K. E. (CNC-3)
BARNES, JOHN W. (CNC-3)
- 5-34
LASER - INDUCED FLUORESCENCE OF FLOWING SAMPLES AS AN APPROACH TO SINGLE-MOLECULE DETECTION IN LIQUIDS.
ANAL. CHEM., V.56, P.348-54. 1984.
DOVICH, NORMAN J. (CNC-2)
MARTIN, JOHN C. (LS-4)
JETT, JAMES H. (LS-4)
TRKULA, MITCHELL (CHM-2)
KELLER, RICHARD A. (CHM-2)
- 5-35
LASER DIAGNOSTICS OF MATERIALS AND CHEMISTRY.
PURE APPL. CHEM., V.56, P.1555-67. 1984.
ALSO PUBLISHED IN:
TIC, 1984. 36P. MN (LA-UR-84-0711)
HARTFORD, ALLEN, JR. (CHM-DO)
- 5-36
LASER PHOTODISSOCIATION OF PLUTONIUM HEXAFLUORIDE AND TRANSIENT PRODUCT ABSORPTION IN THE VISIBLE.
CHEM. PHYS. LETT., V.110, P.417-9. 1984.
KIM, KYU C. (MST-11)
CAMPBELL, GEORGE M. (MST-11)
- 5-37
LIMITED TRYPSIN PROTEOLYSIS OF PHOTORECEPTOR GTP-BINDING PROTEIN LIGHT- AND GTP-INDUCED CONFORMATIONAL CHANGES.
J. BIOL. CHEM., V.259, P.516-25. 1984.
HALLIDAY, KAREN R.
STEIN, PETER J.
CHERNOFF, NAOMI
WHEELER, GEORGE L. (LS-DO)
BITENSKY, MARK W. (LS-DO)
- 5-38
LONG PATH LENGTH TEMPERATURE CONTROLLED ABSORPTION CELL FOR SPECTROSCOPIC STUDIES OF RADIOACTIVE COMPOUNDS.
APPL. SPECTROSC., V.38, P.35-8. 1984.
BRIESMEISTER, RICHARD A. (CHM-4)
READ, GARY WILLIS (AP-1)
KIM, KYU C. (CHM-4)
FITZPATRICK, JOHN R. (MST-11)

- 5-39
LOW VALENT ACTINIDES AS HYDROGENATION CATALYSTS.
J. CATAL.,
V.85, P.536-7. 1984.
MOODY, DAVID C. (CNC-4)
PAINE, ROBERT T., JR.
- 5-40
LOW-TEMPERATURE SYNTHESIS OF PLUTONIUM HEXAFLUORIDE USING DIOXYGEN DIFLUORIDE.
J. AM. CHEM. SOC.,
V.106, P.2726. 1984.
MALM, JOHN G.
ELLER, P. GARY (INC-4)
ASPREY, LARNED B. (CNC-3)
- 5-41
MEASUREMENT OF THE CARBON (A 3 II) AND CARBON (X 1 SIGMA PLUS G) DISAPPEARANCE RATES WITH OXYGEN FROM 298 TO 1300 KELVIN.
CHEMISTRY OF COMBUSTION PROCESSES,
1983, SEATTLE. PROC., P.257-66.
ACS, 1984.
(541.361/C517CO/1983)
BAUGHUM, STEVEN L. (CHM-4)
OLDENBORG, RICHARD C. (CHM-4)
- 5-42
METHOD OF MAKING FINE-GRAINED TRIAMINOTRINITROBENZENE.
PATENTED
NOV. 6, 1984, FILED 1983.
(U.S.PATENT-4,481,371)
BENZIGER, THEODORE M. (WX-2)
- 5-43
METHOD OF PRODUCING COPPER 67.
PATENTED
DEC. 11, 1984, FILED 1983.
(U.S.PATENT-4,487,738)
O'BRIEN, HAROLD A. (INC-3)
BARNES, JOHN W. (INC-3)
TAYLOR, WAYNE A. (INC-3)
THOMAS, K. E. (INC-3)
BENTLEY, GLENN E. (INC-3)
- 5-44
METHOD OF SEPARATING THORIUM FROM PLUTONIUM.
PATENTED
JUL. 10, 1984, FILED 1982.
(U.S.PATENT-4,459,268)
CLIFTON, DAVID G. (MST-12)
BLUM, THOMAS W. (MST-12)
- 5-45
MONTE CARLO FOURIER PATH INTEGRAL METHODS IN CHEMICAL DYNAMICS.
J. CHEM. PHYS.,
V.81, P.3536-41. 1984.
DOLL, JIMMIE D. (CHM-2)
- 5-46
NEW PHASES AND CHEMICAL REACTIONS IN SOLID CARBON MONOXIDE UNDER PRESSURE.
J. PHYS. CHEM.,
V.88, P.3176-9. 1984.
KATZ, ALLEN I.
SCHIFERL, DAVID (M-6)
MILLS, ROBERT L. (P-10)
- 5-47
ORIENTATIONAL ORDERING AND SITE STRUCTURE OF SILICON TETRAFLUORIDE TRAPPED IN RARE GAS SOLIDS.
J. CHEM. PHYS.,
V.81, P.5268-71. 1984.
JONES, LLEWELLYN H. (INC-4)
SWANSON, BASIL I. (INC-4)
EKBERG, SCOTT A. (INC-4)
- 5-48
ORIENTATIONAL ORDERING AND SITE-SELECTIVE PHOTOCHEMISTRY OF URANIUM HEXAFLUORIDE ISOLATED IN ARGON MATRICES.
J. PHYS. CHEM.,
V.88, P.1285-6. 1984.
JONES, LLEWELLYN H. (INC-4)
SWANSON, BASIL I. (INC-4)
EKBERG, SCOTT A. (CNC-4)
- 5-49
ORIGIN OF THE CHEMICAL ELEMENTS AND THE OKLO PHENOMENON.
REVIEW.
GEOCHIM. COSMOCHIM. ACTA,
V.48, P.601. 1984.
CURTIS, DAVID B. (INC-7)
- 5-50
OSCILLATOR STRENGTHS FOR NEUTRAL ATOMIC URANIUM.
J. OPT. SOC. AM.,
V.1B, P.300-5. 1984.
ALSO PUBLISHED IN:
LOS ALAMOS CONFERENCE ON OPTICS '83,
PROC., P. 419-26. SPIE, 1983.
(535/L879OP/1983)
BIENIEWSKI, THOMAS M. (CMB-1)
- 5-51
PLUTONIUM - 240 HALF LIFE DETERMINED BY ISOTOPE-DILUTION MASS SPECTROMETRIC MEASUREMENT OF GROWN-IN URANIUM-236.
INT. J. APPL. RADIAT. ISOT.,
V.35, P.163-9. 1984.
BECKMAN, RICHARD J. (S-1)
MARSH, SINCLAIR F. (CHM-1)
ABERNATHEY, ROBERT M. (CHM-1)
REIN, JAMES E. (CMB-1)
- 5-52
PYROCHEMICAL PROCESS FOR EXTRACTING PLUTONIUM FROM AN ELECTROLYTE SALT.
PATENTED
JUL. 10, 1984, FILED 1982.
(U.S.PATENT-4,459,153)
MULLINS, LAWRENCE J., JR. (MST-13)
CHRISTENSEN, DANA CARL (MST-13)
- 5-53
QUALITY ASSURANCE FOR ENVIRONMENTAL ANALYTICAL CHEMISTRY - 1983.
LOS ALAMOS,
1984. 183P. (LA-10115-MS)
GLADNEY, E. S. (HSE-8)
BURNS, COLLEEN E. (HSE-8)
PERRIN, DANIEL R. (HSE-8)
ROBINSON, RICHARD D. (H-8)
RAYBOLD, NANCY A. (INC-7)
- 5-54
QUALITY ASSURANCE FOR ENVIRONMENTAL ANALYTICAL CHEMISTRY - 1982.
LOS ALAMOS,
1984. 91P. (LA-09950-MS)
GLADNEY, E. S. (HSE-8)
BURNS, COLLEEN E. (HSE-8)
PERRIN, DANIEL R. (HSE-8)
ROBINSON, RICHARD D. (H-8)
KNAB, DARYL (H-8)
- 5-55
QUANTIFICATION OF ORIENTATIONAL ORDERING OF SULFUR HEXAFLUORIDE IN SOLID XENON MATRICES.
J. CHEM. PHYS.,
V.80, P.2980-2. 1984.
JONES, LLEWELLYN H. (INC-4)
SWANSON, BASIL I. (INC-4)
- 5-56
QUENCHING OF BACKWARD STIMULATED RAMAN SCATTERING BY BROADBAND FORWARD RAMAN RADIATION.
OPT. LETT.,
V.9, P.294-6. 1984.
SLATKINE, MICHAEL (CHM-5)
BIGIO, IRVING J. (CHM-5)
- 5-57
RAPID AND PRECISE ALPHA-PARTICLE SPECTROMETRY FOR PLUTONIUM MATERIALS.
NUCL. INSTRUM. METHODS PHYS. RES.,
V.223, P.528-30. 1984.
MATLACK, GEORGE M. (CHM-1)
BUBERNAK, JOSEPH (CHM-1)
- 5-58
REACTION OF SULFUR DIOXIDE WITH TRANSITION-METAL HYDRIDES - SYNTHESIS AND STRUCTURE OF (MU-HYDROGEN)₂ OSMIUM 3(CARBON OXIDE)₁₀ (MU-SULFUR DIOXIDE) ORGANOMETALLICS,
V.3, P.1434-8. 1984.
JARVINEN, GORDON D. (INC-4)
RYAN, ROBERT R. (INC-4)

- 5-59
REDUCTION OF SULFUR DIOXIDE BY BISCYCLOPENTADIENYL METAL DIHYDRIDE (METAL IS MOLYBDENUM OR TUNGSTEN) TO BISCYCLOPENTADIENYL METAL THIOSULFATE AND WATER - MOLECULAR STRUCTURE AND REACTION WITH ACIDS OF AN ORGANOMETALLIC MOLYBDENUM-THIOSULFATE COMPLEX.
INORG. CHEM.,
V.23, P.3181-3. 1984.
KUBAS, GREGORY J. (INC-4)
RYAN, ROBERT R. (INC-4)
- 5-60
RESULTS OF A COOPERATIVE STUDY COMPARING THE PRECISION OF PEAK HEIGHT AND AREA MEASUREMENTS IN LIQUID CHROMATOGRAPHY.
J. CHROMATOGR. SCI.,
V.22, P.425-31. 1984.
MC COY, R. W.
AIKEN, R. L.
PAULS, R. E.
ZIEGEL, E. R.
WOLF, T.
FRITZ, GEORGIA T. (M-1)
MARMION, D. M.
- 5-61
ROLE OF CHLORINE PROMOTERS IN ETHYLENE EPOXIDATION OVER THE SILVER (110) SURFACE.
TIC,
1983. 26P. MN (LA-UR-83-2838)
CAMPBELL, CHARLES TAYLOR (CHM-2)
PAFFETT, MARK THOMAS (E-11)
- 5-62
ROTATIONAL SPECTRA, MOLECULAR STRUCTURES, AND MERCURY 201 NUCLEAR QUADRUPOLE COUPLING CONSTANTS OF MERCURY HYDROGEN CHLORIDE AND MERCURY DEUTERIUM CHLORIDE.
J. CHEM. PHYS.,
V.81, P.5326-34. 1984.
SHEA, J. A.
CAMPBELL, E. J.
- 5-63
SELECTIVE LASER IONIZATION FOR MASS SPECTRAL ISOTOPIC ANALYSIS.
LASER-BASED ULTRASENSITIVE SPECTROSCOPY AND DETECTION, 5TH, 1983, SAN DIEGO. PROC., P.8-12. SPIE, 1983. (621.366/L343BA/1983)
ALSO PUBLISHED IN:
TIC,
1983. 6P. MN (LA-UR-83-2319)
MILLER, CHARLES M. (INC-7)
NOGAR, NICHOLAS S. (CHM-2)
DOWNEY, STEPHEN W. (CHM-2)
- 5-64
SOLUBILITY OF URANIUM HEXAFLUORIDE IN SOME LOW - TEMPERATURE SOLVENTS.
J. CHEM. ENG. DATA,
V.29, P.190-3. 1984.
MAIER, WILLIAM B., II (CHM-4)
BEATTIE, WILLARD H. (AP-4)
- 5-65
SOURCE NOISE REDUCTION IN DIODE LASER SPECTROSCOPY USING THE FARADAY EFFECT.
APPL. OPT.,
V.23, P.2155-8. 1984.
LAGUNA, GLENN A. (CHM-4)
- 5-66
SPECTROPHOTOMETRIC METHOD FOR THE DETERMINATION OF URANIUM IN URINE.
ANAL. CHEM.,
V.56, P.2269-71. 1984.
KRESSIN, IVAN K. (H-5)
- 5-67
SPECTROSCOPY OF SOLUTIONS OF URANIUM (IV) CHLORIDES AT LOW TEMPERATURES BETWEEN 330 AND 2500 NM.
SPECTROCHIM. ACTA,
V.40A, P.897-906. 1984.
BEATTIE, WILLARD H. (CHM-4)
MAIER, WILLIAM B., II (CHM-4)
HOLLAND, REDUS F. (CHM-4)
- 5-68
STRUCTURAL DETERMINATIONS OF SOME CHLOROAZEPINE-2,5-DIONES USING A LANTHANIDE SHIFT REAGENT.
J. HETEROCYCL. CHEM.,
V.21, P.801-6. 1984.
WILBUR, D. SCOTT (INC-3)
- 5-69
STRUCTURES AND TRANSITIONS IN SOLID OXYGEN TO 13 GPa AT 298 K BY X - RAY DIFFRACTION.
J. CHEM. PHYS.,
V.81, P.5068-73. 1984.
OLINGER, BARTON W. (M-6)
MILLS, ROBERT L. (P-10)
ROOF, RAYMOND BRADLEY, JR. (MST)
- 5-70
STUDIES OF IGNITION AND COMBUSTION WAVE PROPAGATION IN EXOTHERMIC CERAMIC SYSTEMS USING HIGH - SPEED PHOTOGRAPHY, HIGH SPEED PHOTOGRAPHY, VIDEOGRAPHY, AND PHOTONICS, 2ND, 1984, SAN DIEGO. PROC., P.24-7. SPIE, 1984. (778.37/H638SP/1984)
MELTON, G. F. (MST-3)
BEHRENS, ROBERT G. (MST-3)
- 5-71
SURFACE SCIENCE STUDY OF SELECTIVE ETHYLENE EPOXIDATION CATALYZED BY THE SILVER(110) SURFACE - STRUCTURAL SENSITIVITY.
TIC,
1983. 17P. MN (LA-UR-83-2689)
ALSO PUBLISHED IN:
J. VAC. SCI. TECHNOL.,
V.A2, P.1024-7. 1984.
CAMPBELL, CHARLES TAYLOR (CHM-2)
- 5-72
SURFACE SELF - DIFFUSION CONSTANTS AT LOW TEMPERATURE - MONTE CARLO TRANSITION STATE THEORY WITH IMPORTANCE SAMPLING.
J. CHEM. PHYS.,
V.80, P.5814-6. 1984.
VOTER, ARTHUR F. (CHM-2)
DOLL, JIMMIE D. (CHM-2)
- 5-73
SURFACE STRUCTURAL DETERMINATION OF URANIUM OXYGEN (111) AND (100) USING RUTHERFORD BACKSCATTERING.
J. VAC. SCI. TECHNOL.,
V.A2, P.1005-6. 1984.
THOMPSON, KENNETH A. (CHM-2)
VALONE, STEVEN M. (MST-3)
ELLIS, WALTON P. (CHM-2)
TAYLOR, THOMAS N. (CHM-2)
MAGGIORE, CARL J. (E-11)
- 5-74
SYNTHESIS OF OXYGEN - 18 ENRICHED PHENOL AND NAPHTHOL FROM 18 OXYGEN.
J. LABELLED COMPD.,
V.21, P.353-60. 1984.
WALKER, THOMAS E. (INC-4)
GOLDBLATT, MAXWELL (CNC-4)
- 5-75
TEMPERATURE DETERMINATIONS IN THE INDUCTIVELY COUPLED PLASMA USING A FOURIER TRANSFORM SPECTROMETER.
SPECTROCHIM. ACTA,
V.39B, P.819-28. 1984.
FAIRES, LYNDA M. (CHM-1)
PALMER, BYRON A. (CHM-1)
ENGLERMAN, ROLF, JR. (CHM-1)
NIEMCZYK, THOMAS M.
- 5-76
TERTIARY PHOSPHINE COMPLEXES OF TRIVALENT URANIUM - PREPARATION AND STRUCTURE OF URANIUM, TRIS [TETRA HYDROBORATE] BIS [BIS(DIMETHYLPHOSPHINO)ETHANE] BORON.
J. CHEM. SOC., CHEM. COMMUN.,
V.8, P.532-4. 1984.
WASSERMAN, HARVEY (INC-4)
MOODY, DAVID C. (INC-4)
RYAN, ROBERT R. (INC-4)
- 5-77
TETRAHYDROBORATE COMPLEXES OF URANIUM WITH 2-(DIPHENYLPHOSPHINO)PYRIDINE.
J. CHEM. SOC., CHEM. COMMUN.,
V.8, P.533-4. 1984.
WASSERMAN, HARVEY (INC-4)
MOODY, DAVID C. (INC-4)
PAINE, ROBERT T., JR.
RYAN, ROBERT R. (INC-4)
SALAZAR, KENNETH V. (INC-4)
- 5-78
THERMAL DESORPTION OF ARGON AND NEON FROM SOLID XENON II. STICKING PROBABILITIES.
J. CHEM. PHYS.,
V.80, P.1681-6. 1984.
ADAMS, JOHN E. (CNC-2)
DOLL, JIMMIE D. (CHM-2)

5-79

THIRD-BODY EFFECTS IN TERMOLUCULAR REACTIONS - HALIDE ION ADDITION TO BORON TRIFLUORIDE AND BORON TRICHLORIDE.

J. PHYS. CHEM.,
V.88, P.5025-31. 1984.
BABCOCK, LUCIA M. (CHM-2)
STREIT, GERALD E. (CHM-2)

5-80

TRANSIENT EFFECTS AND PUMP DEPLETION IN STIMULATED RAMAN SCATTERING.

LOS ALAMOS CONFERENCE ON OPTICS, 1983, LOS ALAMOS AND SANTA FE. PROC., P.201-6. SPIE, 1983.

(535/L879OP/1983)

ALSO PUBLISHED IN:

TIC,
1983. 8P. MN (LA-UR-83-1851)
CARLSTEN, JOHN L. (CHM-6)
WENZEL, ROBERT G. (CHM-6)
DRUHL, K.

5-81

TRANSITION STATE THEORY DESCRIPTION OF SURFACE SELF - DIFFUSION - COMPARISON WITH CLASSICAL TRAJECTORY RESULTS.

J. CHEM. PHYS.,
V.80, P.5832-8. 1984.
VOTER, ARTHUR F. (CHM-2)
DOLL, JIMMIE D. (CHM-2)

5-82

TRITHALLIUM TETRASELENOPHOSPHATE AND TRITHALLIUM TETRATHIOARSENATE BY NEUTRON TIME-OF-FLIGHT DIFFRACTION.

ACTA CRYSTALLOGR.,
V.C40, P.1502-6. 1984.
ALKIRE, RANDALL W. (P-8)
VERGAMINI, PHILLIP J. (P-8)
LARSON, ALLEN C. (INC-4)
MOROSIN, BRUNO

5-83

TWO NEW POTENTIAL ENERGY SURFACES FOR THE FLUORINE PLUS HYDROGEN REACTION.

J. CHEM. PHYS.,
V.80, P.232-9. 1984.
TRUHLAR, DONALD G.
GARRETT, B. C.
BLAIS, NORMAND C. (CHM-2)

5-84

UNTANGLING THE WATER GAS SHIFT FROM FISCHER - TROPSCH - A GORDIAN KNOT?

SYMPOSIUM ON CATALYTIC CONVERSION OF SYNTHETIC GAS AND ALCOHOLS TO CHEMICALS, 1983, WITHE HAVEN. PROC., P.97-118. PLENUM, 1984.

ALSO PUBLISHED IN:

TIC,
1983. 68P. MN (LA-UR-83-0260)
ROFER-DE POORTER, CHERYL K. (ESS-2)

5-85

USE OF OXIDES IN THERMOCHEMICAL WATER-SPLITTING CYCLES FOR SOLAR HEAT SOURCES - COPPER OXIDES.

TIC,
1983. 5P. MN (LA-UR-83-2761)
JONES, WESLEY M. (CHM-2)
BOWMAN, MELVIN G. (CMB-3)

5-86

WAVELENGTHS AND ENERGY LEVELS OF DOUBLY IONIZED URANIUM (U III) OBTAINED USING A FOURIER-TRANSFORM SPECTROMETER.

J. OPT. SOC. AM.,
V.B1, P.609-25. 1984.
PALMER, BYRON A. (CHM-1)
ENGLEMAN, ROLF, JR. (CHM-1)

6. COAL CONVERSION AND UTILIZATION—COAL GASIFICATION

6-1

REVIEW OF VALVE DESIGNS FOR COAL
GASIFICATION LOCKHOPPER SERVICE.

LOS ALAMOS,

1984. 14P. (LA-10024-MS)

CAPPIELLO, CHARLENE C. (WX-4)

BENNETT, JOEL G. (Q-13)

GAC, FRANK D. (MST-6)

8. COAL CONVERSION AND UTILIZATION—ENVIRONMENTAL PROTECTION, WASTE UTILIZATION AND SAFETY

8-1

**ATTENUATION OF CHEMICAL ELEMENTS IN
ACIDIC LEACHATES FROM COAL MINERAL
WASTES BY SOILS.**

LOS ALAMOS,

1984. 14P. (LA-10161-MS)

WANGEN, LAWRENCE E. (CHM-1)

JONES, MARIANNE M. (CHM-1)

9. CRITICALITY STUDIES

- 9-1
ANALYSIS OF CENTRAL WORTHS AND OTHER INTEGRAL DATA FROM THE LOS ALAMOS BENCHMARK ASSEMBLIES.
LOS ALAMOS,
1984. 12P. (LA-10230-MS)
MUIR, DOUGLAS W. (T-2)
- 9-2
ANALYSIS OF THE YIELD AND QUENCH MECHANISM OF THE ARGENTINE ACCIDENT OF SEPTEMBER 23, 1983.
TRANS. AM. NUCL. SOC.,
V.46, P.460. 1984.
FOREHAND, HARRY M., JR. (Q-2)
- 9-3
COMPARISON OF CALCULATIONS AND MEASUREMENTS OF NEUTRON LEAKAGE FROM THE LITTLE BOY REPLICA.
TIC,
1984. 6P. MN (LA-UR-83-3630)
FOREHAND, HARRY M., JR. (Q-2)
WHALEN, PAUL P. (X-DO)
MALENFANT, RICHARD E. (Q-2)
- 9-4
CRITICAL COMMENTARY ON DOSE - RATE EVALUATIONS.
TIC,
1984. 6P. MN (LA-UR-83-3588)
DOWDY, EDWARD J. (Q-2)
MALENFANT, RICHARD E. (Q-2)
PLASSMANN, EUGENE A. (Q-2)
- 9-5
CRITICALITY ACCIDENT EXPERIENCE- HETEROGENEOUS WATER - MODERATED SYTEMS.
TRANS. AM. NUCL. SOC.,
V.46, P.460-2. 1984.
STRATTON, WILLIAM R. (ITO)
- 9-6
EVALUATION OF THE 63 COPPER ACTIVATION FOIL FOR DETERMINING THE NEUTRON DOSE IN THE ENERGY RANGE OF 1 EV TO 1 MEV.
LOS ALAMOS,
1984. 18P. (LA-10074-MS)
EISEN, YOSEF Y. (HSE-1)
VASILJK, DENNIS G. (HSE-1)
BRAKE, RICHARD JOSEPH (HSE-1)
- 9-7
EXPERIMENTS AT LOS ALAMOS NATIONAL LABORATORY WITH THE REPLICA OF THE HIROSHIMA WEAPON.
US-JAPAN JOINT WORKSHOP FOR REASSESSMENT OF ATOMIC BOMB RADIATION DOSIMETRY IN HIROSHIMA AND NAGASAKI WITH SPECIAL REFERENCE TO SHIELDING AND ORGAN DOSES, 2ND, 1983, HIROSHIMA. PROC., P.21-5. RERF, 1984. (539.77/U84RE/2ND/1983)
WHALEN, PAUL P. (X-DO)
SORAN, PATRICK D. (X-6)
MALENFANT, RICHARD E. (Q-2)
FOREHAND, HARRY M., JR. (Q-2)
- 9-8
FIELDABLE COMPUTER SYSTEM FOR DETERMINING GAMMA - RAY PULSE - HEIGHT DISTRIBUTIONS, FLUX SPECTRA, AND DOSE RATES FROM LITTLE BOY.
TIC,
1983. 10P. MN (LA-UR-83-3349)
MOSS, CALVIN E. (Q-2)
LUCAS, MARCIA C. (Q-2)
TISINGER, E. W. (Q-2)
HAMM, MARIANNE E. (Q-2)
- 9-9
GAMMA - RAY DOSIMETRY MEASUREMENTS OF THE LITTLE BOY REPLICA.
TIC,
1984. 8P. MN (LA-UR-83-3530)
PLASSMANN, EUGENE A. (Q-2)
PEDERSON, RAYMOND A. (Q-2)
- 9-10
GAMMA - RAY SPECTRA AND DOSES FROM THE LITTLE BOY REPLICA.
TIC,
1984. 10P. MN (LA-UR-84-1613)
MOSS, CALVIN E. (Q-2)
LUCAS, MARCIA C. (Q-2)
TISINGER, E. W. (Q-2)
HAMM, MARIANNE E. (Q-2)
- 9-11
LANL CRITICALITY SAFETY AUDITS - GOOD AND BAD PRACTICES.
TRANS. AM. NUCL. SOC.,
V.46, P.442. 1984.
SMITH, DAVID R. (HSE-6)
MC LAUGHLIN, THOMAS P. (HSE-6)
- 9-12
LITTLE BOY NEUTRON SPECTRUM BELOW 3 MEV.
TIC,
1984. 11P. MN (LA-UR-84-1523)
EVANS, ALBERT E., JR. (Q-2)
BENNETT, E. F.
YULE, T. J.
- 9-13
LITTLE BOY REPLICATION - JUSTIFICATION AND CONSTRUCTION.
TIC,
1984. 5P. MN (LA-UR-83-3520)
MALENFANT, RICHARD E. (Q-2)
- 9-14
LITTLE BOY REPLICATION - JUSTIFICATION AND CONSTRUCTION.
TIC,
1984. 5P. MN (LA-UR-84-1726)
MALENFANT, RICHARD E. (S-4)
- 9-15
NEUTRON DOSIMETRY OF THE LITTLE BOY DEVICE.
TIC,
1984. 7P. MN (LA-UR-83-3593)
PEDERSON, RAYMOND A. (Q-2)
PLASSMANN, EUGENE A. (Q-2)
- 9-16
NEW INITIATIVES FOR THE LOS ALAMOS CRITICAL ASSEMBLY FACILITY IN TRAINING, SAFETY, AND DESIGN EVALUATION.
TRANS. AM. NUCL. SOC.,
V.46, P.455-6. 1984.
DOWDY, EDWARD J. (Q-2)
- 9-17
PLUTONIUM BUILDUP IN AND RECOVERY FROM A CAUSTIC WASTE TANK.
TRANS. AM. NUCL. SOC.,
V.46, P.465-6. 1984.
MC LAUGHLIN, THOMAS P. (HSE-6)
SMITH, DAVID R. (HSE-6)

10. ELECTRIC ENERGY SYSTEMS—SYSTEMS DEVELOPMENT AND CONTROL

10-1

MARKET STUDY OF INTERNATIONAL NEEDS FOR
NEW ELECTRIC GENERATING CAPACITY.

TRANS. AM. NUCL. SOC.,

V.47, P.343. 1984.

MALENFANT, RICHARD E. (S-4)

11. ENERGY CONSERVATION—SYSTEMS MODELING AND PERFORMANCE ASSESSMENT

11-1 ALTERNATIVE GASEOUS FUELS SAFETY ASSESSMENT.

TIC,
1983. 12P. MN (LA-UR-83-3028)
KRUPKA, MILTON C. (S-4)
PEASLEE, A. T., JR. (S-4)
LAQUER, HENRY L. (G-10)

11-2 DESIGN CONSIDERATIONS FOR VEHICULAR FUEL CELL POWER PLANTS.

INTERSOCIETY ENERGY CONVERSION
ENGINEERING CONFERENCE, 16TH,
1981, ATLANTA. PROC.,
V.1, P.722-5. ASME, 1981.
(333.7/161EC/1981/V.1)

ALSO PUBLISHED IN:

TIC,
1981. 14P. MN (LA-UR-81-1054)
LYNN, DAVID K. (E-11)
MC CORMICK, J. BYRON (E-11)
BOBBETT, RONALD E. (E-11)
SRINIVASAN, S. (E-11)
HUFF, JAMES R. (E-11)

11-3 ELECTROCHEMICAL AND SURFACE SCIENCE RESEARCH ON FUEL CELLS, JANUARY 1 DECEMBER 31, 1982.

LOS ALAMOS,
1984. 60P. (LA-10008-PR)
SRINIVASAN, S. (E-11)
GONZALEZ, E. R.
HSUEH, K. L.
CHIN, D. T.
HYDE, P. J. (E-11)
MAGGIORE, CARL J. (E-11)
GOTTESFELD, S.
CHANG, H. H.
DEROUIN, CHARLES R. (E-11)
BOBBETT, RONALD E. (E-11)
KORDESCH, K. V.
CARUBELLI, ADEMIR (E-11)
VANDERBORGH, NICHOLAS E. (E-11)
SPRINGER, THOMAS E. (E-11)
NARANJO, RAMONCITA (E-11)

11-4 REFUELING CONSIDERATIONS FOR LIQUID HYDROGEN FUELED VEHICLES.

TIC,
1984. 32P. MN (LA-UR-84-1490)
STEWART, WALTER F. (P-10)

12. ENERGY PROJECTIONS AND STATISTICAL INFORMATION

12-1
ELECTRICITY UTILITY MARKETS FOR NEW
NUCLEAR POWER PLANTS.
TRANS. AM. NUCL. SOC.,
V.47, P.342-3. 1984.
JACKSON, SYDNEY V. (S-4)
HARDIE, R. WAYNE (S-4)

12-2
FUTURE MARKET FOR ELECTRIC GENERATING
CAPACITY — A SUMMARY OF FINDINGS.
LOS ALAMOS,
1984. 9P. (LALP-84-054)
SUTHERLAND, RONALD J. (S-2)
DRAKE, ROBERT H. (S-2)

12-3
NUCLEAR RATE INCREASE STUDY.
LOS ALAMOS,
1984. 30P. (LA-10099-MS)
DRAKE, ROBERT H. (S-2)
YOUNGBLOOD, ANNETTE G. (S-2)
WILLIAMS, DONNA S. (S-2)

13. ENERGY STORAGE

13-1
SUPERCONDUCTING MAGNETIC ENERGY STORAGE
FOR UTILITY APPLICATIONS.

TIC,

1984. 26P. MN (LA-UR-84-1139)
ROGERS, JOHN D., JR. (CTR-9)

14. ENGINEERING AND EQUIPMENT

- 14-1
ACCELERATOR APPLICATIONS OF PHOTOCONDUCTIVE POWER SWITCHES.
LOS ALAMOS,
1983. 30P. (LA-09760-MS)
NUNNALLY, WILLIAM C. (E-11)
- 14-2
ANALOG QUADRATURE SIGNAL TO PHASE ANGLE DATA CONVERSION BY A QUADRATURE DIGITIZER AND QUADRATURE COUNTER.
PATENTED
JAN. 17, 1984, FILED 1981.
(U.S.PATENT-4,426,620)
BUCHENAUER, C. JERALD (CTR-7)
- 14-3
APPARATUS AND METHOD FOR QUANTITATIVE ASSAY OF GENERIC TRANSURANIC WASTES FROM NUCLEAR REACTORS.
PATENTED
NOV. 20, 1984, FILED 1982.
(U.S.PATENT-4,483,816)
CALDWELL, JOHN T. (Q-2)
KUNZ, WALTER E. (Q-2)
ATENCIO, J. D. (Q-2)
- 14-4
APPARATUS FOR DETECTING A MAGNETIC ANOMALY CONTIGUOUS TO REMOTE LOCATION BY SQUID GRADIOMETER AND MAGNETOMETER SYSTEMS.
PATENTED
MAR. 13, 1984, FILED 1981.
(U.S.PATENT-4,437,064)
OVERTON, WILLIAM C., JR. (P-10)
STEYERT, WILLIAM A., JR. (P-10)
- 14-5
APPARATUS FOR IRRADIATING A CONTINUOUSLY FLOWING STREAM OF FLUID.
PATENTED
AUG. 7, 1984, FILED 1982.
(U.S.PATENT-4,464,330)
SPEIR, LESLIE GAYLE (Q-1)
ADAMS, EDWIN L. (Q-1)
- 14-6
APPLICATION OF OPTICAL - FIBER PINS TO EXPLOSIVE, PULSE - POWER GENERATORS.
FIBER OPTICS IN ADVERSE ENVIRONMENTS, 2ND, 1984, SAN DIEGO. PROC., P.122-6. SPIE, 1984.
(621.369/F443OP/1984)
CAIRD, ROBERT S., JR. (M-6)
BENJAMIN, ROBERT F. (M-6)
MC QUEEN, ROBERT G. (M-6)
ERICKSON, DENNIS J. (M-6)
- 14-7
BIDIRECTIONAL SLAPPER DETONATOR.
PATENTED
SEPT. 18, 1984, FILED 1982.
(U.S.PATENT-4,471,697)
MC CORMICK, ROBERT NORMAN (M-7)
BOYD, MELISSA D. (M-7)
- 14-8
CAPACITIVELY-COUPLED INDUCTIVE SENSOR.
PATENTED
MAR. 20, 1984, FILED 1981.
(U.S.PATENT-4,438,394)
EKDAHL, CARL A., JR. (P-1)
- 14-8
CHARACTERIZATION OF FIBER OPTIC CABLES UNDER LARGE TENSILE LOADS.
FIBER OPTICS IN ADVERSE ENVIRONMENTS, 2ND, 1984, SAN DIEGO. PROC., P.156-64. SPIE, 1984.
OGLE, J. W. (P-14)
LOONEY, LARRY D. (P-14)
PETERSON, R. T.
- 14-10
COMPARISON OF REMOTELY ACQUIRED DEEP-BODY AND SUBDERMAL TEMPERATURE MEASUREMENTS FOR DETECTING FEVER IN CATTLE.
TIC,
1983. 13P. MN (LA-UR-83-3481)
SEAWRIGHT, GARY L. (DAD/AE)
BROWN, R. R. (E-8)
CAMPBELL, KATHERINE (S-1)
LEVINGS, R. L.
ARAKI, CLIFFORD T. (LS-2)
- 14-11
COMPOSITE POLYMERIC FILM AND METHOD FOR ITS USE IN INSTALLING A VERY THIN POLYMERIC FILM IN A DEVICE.
PATENTED
MAY 15, 1984, FILED 1982.
(U.S.PATENT-4,448,622)
DUCHANE, DAVID V. (MST-6)
BARTHELL, BARRY L. (MST-6)
- 14-12
DESIGN AND TESTING OF HIGH-PRESSURE RAILGUNS AND PROJECTILES.
TIC,
1983. 5P. MN (LA-UR-83-2717)
PETERSON, DENNIS R. (WX-4)
FOWLER, CLARENCE M. (M-6)
CUMMINGS, CHARLES E. (WX-4)
KERRISK, JERRY F. (WX-4)
PARKER, JERALD V. (P-7)
MARSH, STANLEY P. (M-6)
- 14-13
DESIGN OF A NEW ELECTROPLATING LABORATORY.
PLAT. SURF. FINISH., V.71, NO.11, P.20-2. 1984.
MAYER, ANTON (MST-6)
- 14-14
DEVICE FOR LOADING THIN WIRES IN A VACUUM.
REV. SCI. INSTRUM., V.55, P.39-41. 1984.
KANIA, DON R. (P-1)
- 14-15
EDGE - LOADED METAL FLANGE SEAL - ITS CHARACTERISTICS AND APPLICATIONS.
J. VAC. SCI. TECHNOL., V.A2, P.1176-9. 1984.
HIGGINS, ROBERT W. (ESS-11)
- 14-16
EFFECTS OF BLOCKING CONTACTS ON GENERATION-RECOMBINATION NOISE AND RESPONSIVITY IN INTRINSIC PHOTOCONDUCTORS.
J. APPL. PHYS., V.56, P.1663-9. 1984.
SMITH, DARRYL L. (E-11)
- 14-17
EFFICIENCY OF A BISMUTH - GERMANATE SCINTILLATOR - COMPARISON OF MONTE CARLO CALCULATIONS WITH MEASUREMENTS.
TIC,
1983. 6P. MN (LA-UR-83-3009)
HSU, H. H. (X-5)
DOWDY, EDWARD J. (Q-2)
ESTES, GUY P. (X-6)
LUCAS, MARCIA C. (Q-2)
MACK, JOSEPH M., JR. (X-6)
MOSS, CALVIN E. (Q-2)
HAMM, MARIANNE E. (Q-2)
- 14-18
ELECTRICAL AND THERMAL MODELING OF RAILGUNS.
TIC,
1983. 5P. MN (LA-UR-83-2579)
KERRISK, JERRY F. (WX-4)
- 14-19
ELECTRONICS DIVISION RESEARCH AND DEVELOPMENT, OCTOBER 1, 1982 SEPTEMBER 30, 1983.
LOS ALAMOS,
1984. 193P. (LA-10059-PR)
MAC ROBERTS, MARTIN D. (E-DO)
COURTNEY, ELIZABETH J. (E-DO)

14-20
EXPERIMENT TO DETERMINE PROPERTIES OF
PACKED PARTICLE BEDS AND REGENERATORS
AT CRYOGENIC TEMPERATURES.
ADV. CRYOG. ENG.,
V.29, P.605-12. 1984.
BARCLAY, JOHN A. (P-10)
OVERTON, WILLIAM C., JR. (P-10)
STEWART, WALTER F. (P-10)
SARANGI, SUNIL (P-10)

14-21
EXPERIMENTAL INVESTIGATION OF A
MAGNETIC GATE AS A MULTIMEGAMPERE,
VACUUM OPENING SWITCH.
APPL. PHYS. LETT.,
V.44, P.741-3. 1984.
KANIA, DON R. (P-14)
JONES, LARRY A. (P-1)
ZIMMERMANN, EUGENE L. (P-1)
VEESER, LYNN R. (P-14)
TRAINOR, ROBERT JAMES (P-1)

14-22
EXPERIMENTAL TECHNIQUES WITH THE
SPLIT HOPKINSON PRESSURE BAR.
HIGH ENERGY RATE FABRICATION, 1984,
SAN ANTONIO. PROC., P.229-35.
ASME, 1984.
ALSO PUBLISHED IN:
TIC,
1984. 28P. MN (LA-UR-83-3422)
FRANTZ, CHARLES E. (MST-5)
FOLLANSBEE, PAUL S. (MST-5)
WRIGHT, WALTER J. (MST-5)

14-23
EXPERIMENTAL TESTS OF A MOVING FOIL AS
A HIGH CURRENT VACUUM OPENING SWITCH.
APPL. PHYS. LETT.,
V.45, P.26-8. 1984.
KANIA, DON R. (P-14)
ZIMMERMANN, EUGENE L. (P-1)
TRAINOR, ROBERT JAMES (P-1)
VEESER, LYNN R. (P-14)
JONES, LARRY A. (P-1)

14-24
FABRICATION AND LEAK - TIGHT FURNACE
BRAZING OF INTRICATE OBJECTS.
REV. SCI. INSTRUM.,
V.55, P.793-5. 1984.
SWIFT, GREG W. (P-10)
MIGLIORI, ALBERT (P-10)
WHEATLEY, JOHN C. (P-10)
WALLER, C. R. (MP-8)
SUAZO, G. (MP-8)

14-25
FABRICATION OF A TANTALUM NEUTRAL
SOURCE HEAT EXCHANGER.
WELD. J.,
APRIL, P.43-4. 1984.
DIXON, RAY D. (MST-6)
CRANE, HARRIS (CMB-6)
CRISLER, TOMMY L.
VIGIL, VICTOR (MST-6)

14-26
FAST PHOTOCONDUCTORS FOR SYNCHROTRON
RADIATION RESEARCH.
NUCL. INSTRUM. METHODS PHYS. RES.,
V.222, P.270-3. 1984.
KANIA, DON R. (P-14)
BARTLETT, ROGER J. (P-14)
WAGNER, RONALD S. (E-11)
HAMMOND, ROBERT B. (E-11)
PIANETTA, PIERO

14-27
FIBER OPTIC SENSOR FOR MEASURING
MULTIMEGAMPERE CURRENTS FROM FLUX
COMPRESSION GENERATORS.
FIBER OPTICS IN ADVERSE ENVIRONMENTS,
2ND, 1984, SAN DIEGO. PROC.,
P.103-8. SPIE, 1984.
(621.369/F443OP/1984)
VEESER, LYNN R. (P-14)
CAIRD, ROBERT S., JR. (M-6)
FOWLER, CLARENCE M. (M-6)
ERICKSON, DENNIS J. (M-6)

14-28
HEAT COLLECTOR.
PATENTED
MAR. 20, 1984, FILED 1981.
(U.S.PATENT-4,437,456)
MERRIGAN, MICHAEL A. (Q-13)

14-29
HIGH EFFICIENCY PHOTOIONIZATION
DETECTOR.
PATENTED
JAN. 31, 1984, FILED 1981.
(U.S.PATENT-4,429,228)
ANDERSON, DAVID F. (H-1)

14-30
INDIUM - PHOSPHIDE PICOSECOND
PHOTOCONDUCTORS.
PICOSECOND OPTOELECTRONICS, 1983,
SAN DIEGO. PROC., P.192-6. SPIE.
1983. (621.36/P598OP/1983)
ALSO PUBLISHED IN:
TIC,
1983. 6P. MN (LA-UR-83-1897)
HAMMOND, ROBERT B. (E-11)
WAGNER, RONALD S. (E-11)
PAULTER, NICHOLAS G. (E-11)

14-31
INDIUM PHOSPHORUS - IRON
PHOTOCONDUCTING DEVICE.
PATENTED
DEC. 25, 1984, FILED 1982.
(U.S.PATENT-4,490,709)
HAMMOND, ROBERT B. (E-11)
PAULTER, NICHOLAS G. (E-11)
WAGNER, RONALD S. (E-11)

14-32
INDUCTIVE STORAGE PULSE CIRCUIT
DEVICE.
PATENTED
SEPT. 25, 1984, FILED 1984.
(U.S.PATENT-4,473,875)
PARSONS, W. M. (CTR-9)
HONIG, EMANUEL M. (NSP/AWT)

14-33
INFLUENCE OF A PLASMA DURING LASER
WELDING.
TIC,
1983. 30P. MN (LA-UR-83-3701)
DIXON, RAY D. (MST-6)
LEWIS, GARY K. (MST-6)

14-34
LECTURE 10 - MEASUREMENT TECHNIQUES.
TIC,
1980. 42P. MN (LA-UR-80-2272)
WILLIS, WALTER LEE (AP-1)

14-35
LECTURE 3 - PULSE VOLTAGE CIRCUITS.
TIC,
1980. 58P. MN (LA-UR-80-2082)
WILLIS, WALTER LEE (AP-1)

14-36
LECTURE 5 - DISCHARGE CIRCUITS AND
LOADS.
TIC,
1980. 61P. MN (LA-UR-80-2271)
SARJEANT, WALTER J. (E-11)

14-37
LOSSES IN MAGNETIC FLUX COMPRESSION
GENERATORS, PART I. LINEAR DIFFUSION.
LOS ALAMOS,
1984. 61P. (LA-09956-MS, V. I)
FOWLER, CLARENCE M. (M-6)

14-38
MAGNETIC AND PHOTOCONDUCTIVE REPETITIVE
RAILGUN OPENING SWITCHES.
LOS ALAMOS,
1984. 10P. (LA-09940-MS)
NUNNALLY, WILLIAM C. (E-11)

14-39
MAGNETIC REFRIGERATION - THE PROMISE
AND THE PROBLEMS.
TIC,
1984. 6P. MN (LA-UR-84-0745)
BARCLAY, JOHN A. (P-10)

14-40
MAGNETIC REFRIGERATION APPARATUS
AND METHOD.
PATENTED
JUL. 17, 1984, FILED 1983.
(U.S.PATENT-4,459,811)
BARCLAY, JOHN A. (P-10)
OVERTON, WILLIAM C., JR. (P-10)
STEWART, WALTER F. (P-10)

14-41
MAGNETIC SWITCHES AND CIRCUITS.
LOS ALAMOS,
1984. 37P. (LA-08862-MS, REV. 2)
NUNNALLY, WILLIAM C. (E-11)

14-42
MECHANICAL DESIGN ASPECTS OF THE HYVAX
RAILGUN.

TIC,
1983. 4P. MN (LA-UR-83-2716)
FOX, WILL E. (WX-4)
CUMMINGS, CHARLES E. (WX-4)
DAVIDSON, RICH FRANK (WX-4)
PARKER, JERALD V. (P-7)

14-43
METHOD AND APPARATUS FOR PRODUCING
CRYOGENIC TARGETS.

PATENTED
AUG. 7, 1984, FILED 1981.
(U.S.PATENT-4,464,413)
MURPHY, JAMES T. (CMB-10)
MILLER, JOHN R. (L-7)

14-44
METHOD FOR PRODUCTION OF HYDROCARBONS
FROM HYDRATES.

PATENTED
JAN., 10, 1984, FILED 1981.
(U.S.PATENT-4,424,866)
MC GUIRE, PATRICK L. (ESS-3)

14-45
METHOD OF ACCURIZING RAIL GUNS.

LOS ALAMOS,
1984. 11P. (LA-10028-MS)
FARNUM, EUGENE H. (CMB-10)

14-46
METHOD OF FORMING A THIN UNBACKED
METAL FOIL

PATENTED
NOV. 13, 1984, FILED 1982.
(U.S.PATENT-4,481,999)
DUCHANE, DAVID V. (MST-7)
BARTHELL, BARRY L. (MST-7)

14-47
MICROSCOPE AND METHOD OF USE.

PATENTED
APR. 17, 1984, FILED 1981.
(U.S.PATENT-4,442,714)
BONGIANNI, W. L. (MST-6)

14-48
MICROSHELL-TIPPED OPTICAL FIBERS AS
SENSORS OF HIGH-PRESSURE PULSES IN
ADVERSE ENVIRONMENTS.

FIBER OPTICS IN ADVERSE ENVIRONMENTS,
2ND, 1984, SAN DIEGO. PROC.,
P.116-20. SPIE, 1984.
BENJAMIN, ROBERT F. (M-6)
MAYER, FREDERICK J.
MAYNARD, ROBERT L.

14-49
MIRROR FILTER SYSTEMS FOR THE SOFT
X - RAY REGION.

NUCL. INSTRUM. METHODS,
V.222, P.95-8. 1984.
BARTLETT, ROGER J. (P-14)
KANIA, DON R. (P-14)
DAY, ROBERT H. (P-14)
KALLNE, ELISABETH (P-1)

14-50
NOVEL OPTICAL PIN USING MICROBALLOONS.
MATERIALS RESEARCH SOCIETY SYMPOSIA,
1984, ALBANY. PROC., P.299-300.
ELSEVIER, 1984.

ALSO PUBLISHED IN:
TIC,
1983. 3P. MN (LA-UR-83-2147)
BENJAMIN, ROBERT F. (M-6)

14-51
OPTICAL PUMPING IN A WHISPERING
MODE OPTICAL WAVEGUIDE.

PATENTED
MAR. 27, 1984, FILED 1981.
(U.S.PATENT-4,439,860)
KURNIT, NORMAN A. (CHM-6)

14-52
PHOTOCONDUCTIVE POWER SWITCHES.

LOS ALAMOS,
1984. 40P. (LA-09759-MS)
NUNNALLY, WILLIAM C. (E-11)
HAMMOND, ROBERT B. (E-11)

14-53
PRESSURE DROP AND FILM HEIGHT
MEASUREMENTS FOR ANNULAR GAS
LIQUID FLOW.

INT. J. MULTIPHASE FLOW,
V.10, P.341-56. 1984.
LAURINAT, J. E.
HANRATTY, T. J.
DALLMAN, JOHN C. (M-3)

14-54
PRINCIPLES AND PROSPECTS FOR MICRO
HEAT PIPES.

TIC,
1984. 9P. MN (LA-UR-84-0120)
OTTER, THEODORE P. (T-DOT)

14-55
PROGRESS IN DEVELOPING REPETITIVE
PULSE SYSTEMS UTILIZING INDUCTIVE
ENERGY STORAGE.

IEEE PULSED POWER CONF., 4TH, 1983,
ALBUQUERQUE. PROC., P.129-32.
1983?
ALSO PUBLISHED IN:
TIC,
1983. 5P. MN (LA-UR-83-1585)
HONIG, EMANUEL M. (E-11)

14-56
PURGED WINDOW APPARATUS UTILIZING
HEATED PURGE GAS.

PATENTED
APR. 17, 1984, FILED 1982.
(U.S.PATENT-4,443,072)
BALLARD, EVAN O. (P-12)

14-57
RADIATION INDUCED TRANSIENT
ATTENUATION OF PCS FIBER.

OPTICAL FIBERS IN ADVERSE
ENVIRONMENTS, 1983, PARIS.
PROC., P.68-75. SPIE, 1984.
ALSO PUBLISHED IN:
TIC,
1983. 17P. MN (LA-UR-83-1314)
LYONS, PETER B. (P-14)
LOONEY, LARRY D. (P-14)

14-58
REINJECTION LASER OSCILLATOR AND
METHOD.

PATENTED
AUG. 28, 1984, FILED 1981.
(U.S. PATENT-4,468,776)
MC LELLAN, EDWARD J. (AP-5)

14-59
REPETITIVE PULSE GENERATION WITH
INDUCTIVE ENERGY STORAGE, A NEW
TECHNOLOGY FOR DEFENSE.

LOS ALAMOS,
1984. 5P. (LA-10004)
HONIG, EMANUEL M. (E-11)

14-60
STANDARD OPERATING PROCEDURE-
GAS - ATMOSPHERE BRAZING FACILITY/LAMPF
EQUIPMENT TEST LABORATORY.

LOS ALAMOS,
1984. 55P. (LA-10231-SOP)
SUAZO, G. (MP-8)
KOCZAN, STEVEN P. (ESS-6)

14-61
STEPPING MOTOR CONTROLLER.

PATENTED
AUG. 7, 1984, FILED 1982.
(U.S.PATENT-4,464,616)
BOURRET, STEVEN C. (Q-1)
SWANSEN, JAMES E. (Q-1)

14-62
SUBNANOSECOND RELATIVE TIMING SYSTEM
AND CABLE MEASUREMENTS ON THE ATRISCO
EVENT.

LOS ALAMOS,
1984. 27P. (LA-10031-MS)
WILKE, MARK D. (P-15)
ALRICK, KEITH R. (P-15)
EGDORF, S.

14-63
TEST TECHNIQUES FOR MODEL DEVELOPMENT
OF REPETITIVE SERVICE ENERGY STORAGE
CAPACITORS.

TIC,
1984. 8P. MN (LA-UR-83-3634)
THOMPSON, MELVIN C. (E-8)
MAULDIN, G. H.

14-64

TWO - DIMENSIONAL MODELING OF HIGH
EXPLOSIVE DRIVEN PLASMA OPENING
SWITCHES.

J. APPL. PHYS.,
V.57, P.78-81. 1984.
GREENE, ARTHUR E. (X-2)
BOWERS, RICHARD L. (X-2)

14-65

UPDATE ON PRECISION MACHINING AT
LOS ALAMOS.

CONTEMPORARY METHODS OF OPTICAL
MANUFACTURING AND TESTING, 1983,
SAN DIEGO. PROC., P.107-11. SPIE,
1983. (681.4/C761ME/1983)
ALSO PUBLISHED IN:
TIC,
1983. 8P. MN (LA-UR-83-2438)
RHORER, RICHARD L. (MEC-4)

14-66

WIDE RANGE RADIOACTIVE GAS
CONCENTRATION DETECTOR.

PATENTED
APR. 3, 1984, FILED 1981.
(U.S.PATENT-4,441,024)
ANDERSON, DAVID F. (H-1)

14-67

240-KA SWITCH WITH POTENTIAL APPLICATION
IN ELECTROMAGNETIC-LAUNCH SYSTEMS.

ELECTROMAGNETIC LAUNCH TECHNOLOGY,
2ND, 1983, BOSTON. PROC.,
P.111-4. IEEE, 1983.
(629.475/S989EL/2ND/1983)
ALSO PUBLISHED IN:
TIC,
1983. 5P. MN (LA-UR-83-2710)
HONIG, EMANUEL M. (E-11)

14-68

80 - MW PHOTOCONDUCTOR POWER SWITCH.

APPL. PHYS. LETT.,
V.44, P.980-8. 1984.
NUNNALLY, WILLIAM C. (E-11)
HAMMOND, ROBERT B. (E-11)

16. ENVIRONMENT CONTROL TECHNOLOGY AND EARTH SCIENCES

- 16-1
CALDERA DEVELOPMENT DURING THE MINOAN
ERUPTION, THIRA, CYCLADES, GREECE.
J. GEOPHYS. RES.,
V.89, P.8441-62. 1984.
HEIKEN, GRANT H. (ESS-1)
MC COY, FLOYD J.
- 16-2
COPPER SMELTERS AND ATMOSPHERIC
VISIBILITY IN THE SOUTHWEST, SEASONAL
ANALYSIS.
J. AIR POLLUT. CONTROL ASSOC.,
V.34, P.750-1. 1984.
ALSO PUBLISHED IN:
TIC,
1983. 36P. MN (LA-UR-83-0636)
NOCHUMSON, DAVID H. (S-4)
WILLIAMS, MICHAEL D. (S-4)
- 16-3
COPPER SMELTERS AND ATMOSPHERIC
VISIBILITY IN NATIONAL PARKS AND
WILDERNESS AREAS IN THE SOUTHWEST.
LOS ALAMOS,
1984. 87P. (LA-10095-MS)
NOCHUMSON, DAVID H. (S-4)
WILLIAMS, MICHAEL D. (S-4)
- 16-4
CRITERION FOR QUASIBRITTLE CRACK GROWTH.
TIC,
1984. 11P. MN (LA-UR-84-0829)
MARGOLIN, LEONARD G. (ESS-5)
SMITH, BARHAM W. (ESS-5)
- 16-5
DETAILED MAGNETOTELLURIC/
AUDIOMAGNETOTELLURIC STUDY OF THE
JEMEZ VOLCANIC ZONE, NEW MEXICO.
J. GEOPHYS. RES.,
V.89B, P.3335-52. 1984.
ANDER, MARK E. (ESS-3)
GOSS, RON
STRANGWAY, DAVID
- 16-6
DUST PARTICLES IN HIGH-SPEED FLOWS
CALCULATIONS OF SMALL PARTICLE
RE-ENTRY HYDRODYNAMICS.
LOS ALAMOS,
1984. 20P. (LA-10025)
SANDFORD, MAXWELL T. (ESS-5)
- 16-7
EARTHQUAKE CATALOG FOR NORTHERN
NEW MEXICO, JULY - SEPTEMBER 1982.
LOS ALAMOS,
1984. 11P. (LA-10313-PR)
CASH, DANIEL J. (ESS-3)
OLSEN, KENNETH H. (ESS-3)
STEWART, JOHN N., JR. (ESS-3)
WOLFF, JOYCE J. (ESS-3)
- 16-8
EARTHQUAKE CATALOG FOR NORTHERN
NEW MEXICO, OCTOBER - DECEMBER 1983.
LOS ALAMOS,
1984. 14P. (LA-10314-PR)
CASH, DANIEL J. (ESS-3)
OLSEN, KENNETH H. (ESS-3)
STEWART, JOHN N., JR. (ESS-3)
WOLFF, JOYCE J. (ESS-3)
- 16-9
EARTHQUAKE CATALOG FOR NORTHERN NEW
MEXICO, JULY - SEPTEMBER 1983.
LOS ALAMOS,
1984. 10P. (LA-10033-PR)
CASH, DANIEL J. (ESS-3)
OLSEN, KENNETH H. (ESS-3)
STEWART, JOHN N., JR. (ESS-3)
WOLFF, JOYCE J. (ESS-3)
- 16-10
EROSION OF EARTH COVERS USED IN
SHALLOW LAND BURIAL AT LOS ALAMOS,
NEW MEXICO.
J. ENVIRON. QUAL.,
V.13, P.361-5. 1984.
NYHAN, JOHN W. (LS-6)
DEPORTER, G. L.
DRENNON, BARRY J. (LS-6)
SIMANTON, J. R.
FOSTER, GEORGE R.
- 16-11
ESTIMATE OF NEPTUNIUM 237 PRODUCTION
DURING ATMOSPHERIC TESTING.
HEALTH PHYS.,
V.47, P.786-7. 1984.
EFURD, DEWARD W. (INC-7)
KNOBELOCH, GORDON W. (INC-11)
PERRIN, RICHARD E. (INC-7)
BARR, DONALD W. (INC-11)
- 16-12
EVALUATION OF VAGINAL IMPLANTS FOR
MULE DEER.
J. WILDL. MANAGE.,
V.48, P.646-8. 1984.
GARROTT, R. A. (LS-6)
BARTMANN, RICHARD M.
- 16-13
FALLOUT PREDICTION AS OF 1957.
LOS ALAMOS,
1984. 19P. (LA-09993-MS)
STOPINSKI, ORIN W. (NSP/TO)
- 16-14
GEOCHEMICAL APPLICATIONS OF NUCLEAR
MICROPROBES.
NUCL. INSTRUM. METHODS,
V.B3, P.671-6. 1984.
ROGERS, PAMELA S. Z. (INC-7)
DUFFY, CLARENCE J. (INC-11)
BENJAMIN, TIMOTHY M. (INC-7)
MAGGIORE, CARL J. (E-11)
- 16-15
HARPER - DORN CREEP - AN ARTIFACT OF
LOW-AMPLITUDE TEMPERATURE CYCLING?
GEOPHYS. RES. LETT.,
V.11, P.117-20. 1984.
WEERTMAN, JOHANNES (MST-5)
BLACIC, JAMES D. (ESS-3)
- 16-16
HUGONOT DATA FOR PYRRHOTITE AND THE
EARTH'S CORE.
J. GEOPHYS. RES.,
V.89B, P.6041-8. 1984.
BROWN, J. MICHAEL
AHRENS, THOMAS J.
SHAMPINE, DENNIS L. (M-6)
- 16-17
HYDRAULIC TESTING OF CRUSHED
BANDELIER TUFF.
LOS ALAMOS,
1984. 21P. (LA-10037-MS)
ABEELE, WILLY V. (LS-6)
- 16-18
HYDRODYNAMIC ASPECTS OF CALDERA-
FORMING ERUPTIONS - NUMERICAL MODELS.
J. GEOPHYS. RES.,
V.89, P.8269-85. 1984.
WOHLETZ, KENNETH H. (ESS-1)
MC GETCHIN, THOMAS R.
SANDFORD, MAXWELL T. (ESS-5)
JONES, ERIC M. (ESS-5)
- 16-19
HYDROLOGIC CHARACTERISTICS OF THE MAIN
AQUIFER IN THE LOS ALAMOS AREA-
DEVELOPMENT OF GROUND WATER SUPPLIES.
LOS ALAMOS,
1984. 44P. (LA-09957-MS)
PURTYMUN, WILLIAM D. (HSE-8)
- 16-20
IMPROVED APPARATUS AND TECHNIQUES FOR
HIGH-TEMPERATURE AND PRESSURE
DEFORMATION OF CRYSTALLINE MATERIALS.
LOS ALAMOS,
1984. 21P. (LA-10182-MS)
KOLLE, J. J.
BLACIC, JAMES D. (ESS-3)

- 16-21
LA MESA FIRE SYMPOSIUM. LOS ALAMOS,
NEW MEXICO, OCTOBER 6 AND 7, 1981.
LOS ALAMOS,
1984. 172P. (LA-09236-NERP)
FOXX, TERALENE S. (H-8)
- 16-22
LIDAR MEASUREMENTS IN THE VICINITY OF
THE KINGSTON STEAM PLANT, TENNESSEE,
DURING MARCH 18 - 22, 1981. LOS ALAMOS,
1984. 92P. (LA-10086-MS)
HORAK, HENRY G. (ESS-7)
WHITAKER, RODNEY W. (ESS-5)
KARL, ROBERT RAYMOND, JR (ESS-7)
ARGO, HAROLD V. (ESS-9)
- 16-23
MEASUREMENTS OF STRATOSPHERIC BROMINE.
J. GEOPHYS. RES.,
V.89D, P.4821-5. 1984.
SEDLACEK, WILLIAM A. (INC-7)
LAZRUS, ALLAN L.
GANDRUD, B. W.
- 16-24
MODEL FOR THE TECTONIC DEVELOPMENT OF
THE SOUTHEASTERN COLORADO PLATEAU
BOUNDARY.
J. GEOPHYS. RES.,
V.89, P.10,207-17. 1984.
ALDRICH, MERRITT J. (ESS-1)
LAUGHLIN, A. WILLIAM (ESS-2)
- 16-25
OBSERVED RATE OF TROPOSPHERIC DIFFUSION.
LOS ALAMOS,
1984. 14P. (LA-10181-MS)
GIFFORD, F. A.
- 16-26
ORIGIN OF A ROBERTS VICTOR SANDINE-
COESITE GROSPYDITE - THERMODYNAMIC
CONSIDERATIONS.
INTERNATIONAL KIMBERLITE CONFERENCE,
PROC., P.33-42. ELSEVIER, 1984.
3RD, 1984, CLERMONT-FERRAND.
ALSO PUBLISHED IN:
TIC,
1982. 24P. MN (LA-UR-82-3641)
WOHLETZ, KENNETH H. (ESS-1)
SMYTH, JOSEPH R. (ESS-1)
- 16-27
PHYSIOLOGIC RESPONSE OF ELK TO
DIFFERENCES IN WINTER RANGE QUALITY.
J. WILDL. MANAGE.,
V.48, P.248-53. 1984.
WEBER, BRUCE J.
WOLFE, MICHAEL L.
WHITE, GARY C. (LS-6)
ROWLAND, MARY M.
- 16-28
PLASTICITY AND HYDROLYTIC WEAKENING OF
QUARTZ SINGLE CRYSTALS.
J. GEOPHYS. RES.,
V.89B, P.4223-37. 1984.
BLACIC, JAMES D. (ESS-3)
CHRISTIE, J. M.
- 16-29
PREDICTION OF SOIL LOSS WITH THE
CREAMS MODEL.
TIC,
1984. 10P. MN (LA-UR-84-1399)
BECKER, NAOMI M. (HSE-8)
- 16-30
PRELIMINARY RESULTS OF EROSION AND
CONTAMINANT TRANSPORT RESEARCH ON THE
NEVADA TEST SITE.
TIC,
1984. 15P. MN (LA-UR-84-1000)
BOSTICK, KENNETH V. (LS-6)
SIMANTON, J. R.
LANE, LEONARD J. (LS-6)
HAKONSON, THOMAS E. (LS-6)
- 16-31
PROCEEDINGS OF WORKSHOP ON ATMOSPHERIC
RESEARCH NEEDS FOR THE WESTERN
UNITED STATES - SPONSORED BY
LOS ALAMOS NATIONAL LABORATORY,
LOS ALAMOS, NEW MEXICO, MARCH 13-15,
1984.
LOS ALAMOS,
1984. 34P. (LA-10109-C)
YAMADA, TETSUJI (ESS-5)
STREIT, GERALD E. (CNC-2)
NOCHUMSON, DAVID H. (S-4)
MROZ, EUGENE J. (INC-7)
CLEMENTS, WILLIAM E. (ESS-7)
WILLIAMS, MICHAEL D. (S-4)
- 16-32
PRODUCE AND FISH SAMPLING PROGRAM OF
LOS ALAMOS NATIONAL LABORATORY'S
ENVIRONMENTAL SURVEILLANCE GROUP.
LOS ALAMOS,
1984. 8P. (LA-10186-MS)
SALAZAR, JOHN (H-8)
- 16-33
RADIATIVE HEAT TRANSFER IN MOLTEN AND
GLASSY OBSIDIAN.
J. GEOPHYS. RES.,
V.89B, P.7107-10. 1984.
GABLE, CARL
SHANKLAND, THOMAS J. (ESS-3)
- 16-34
REGIONAL AIR QUALITY IN THE FOUR
CORNERS STUDY REGION.
J. AIR POLLUT. CONTROL ASSOC.,
V.33, P.670-7. 1983.
NOCHUMSON, DAVID H. (S-4)
- 16-35
SEARCH FOR IRIIDIUM ABUNDANCE ANOMALIES
AT TWO LATE CAMBRIAN BIOMERE BOUNDARIES
IN WESTERN UTAH.
SCIENCE,
V.223, P.163-5. 1984.
ORTH, CHARLES J. (INC-11)
KNIGHT, JERE D. (INC-11)
QUINTANA, LEONARD R. (INC-11)
GILMORE, JAMES S. (CNC-11)
PALMER, A. R.
- 16-36
SOME PHYSICAL CONCEPTS IN COMPLEX
TERRAIN METEOROLOGY DERIVED FROM THE
U. S. DEPARTMENT OF ENERGY'S ASCOT
PROGRAM.
TIC,
1984. 44P. MN (LA-UR-84-0808)
CLEMENTS, WILLIAM E. (ESS-7)
- 16-37
STATISTICAL EXPLORATION OF THE EFFECTS
OF COPPER SMELTER EMISSIONS ON
VISIBILITY IN SOUTHWESTERN NATIONAL
PARKS.
TIC,
1984. 17P. MN (LA-UR-84-1035)
WILLIAMS, MICHAEL D. (S-4)
NOCHUMSON, DAVID H. (S-4)
- 16-38
STATUS OF THE FLORA OF THE LOS ALAMOS
NATIONAL ENVIRONMENTAL RESEARCH PARK,
A HISTORICAL PERSPECTIVE.
LOS ALAMOS,
1984. 50P. (LA-08050-NERP V.2)
FOXX, TERALENE S. (HSE-8)
TIERNEY, GAIL D. (HSE-8)
- 16-39
SUBSURFACE TRANSPORT OF CONTAMINANTS
FROM ENERGY PROCESS WASTE LEACHATES,
JANUARY 1 - DECEMBER 31, 1982.
LOS ALAMOS,
1984. 12P. (LA-10011-PR)
WANGEN, LAWRENCE E. (LS-6)
STALLINGS, E. A. (LS-6)
- 16-40
TESTING OF LATERAL WATER FLOW IN A
MOISTURE BARRIER.
LOS ALAMOS,
1984. 4P. (LA-10125-MS)
ABEELE, WILLY V. (LS-6)
DE POORTER, GERALD L. (LS-6)
- 16-41
TOWING TANK STUDIES OF STRATIFIED FLOW
OVER RIDGES AND VALLEYS.
CONFERENCE ON MOUNTAIN METEOROLOGY,
3RD, 1984, PORTLAND. PROC., P.37-41.
AMS, 1984.
LEE, JAMES T., JR. (ESS-7)
BARR, SUMNER (ESS-7)
LAWSON, ROBERT E., JR.
SNYDER, WILLIAM H.
MARSH, G. L.
- 16-42
TRACE ELEMENT PATTERNS AT A NON-MARINE
CRETACEOUS - TERTIARY BOUNDARY.
NATURE,
V.307, P.224-8. 1984.
GILMORE, JAMES S. (CNC-11)
KNIGHT, JERE D. (INC-11)
ORTH, CHARLES J. (INC-11)
PILLMORE, C. L.
TSCHUDY, R. H.

16-43
USE OF PELLET - GROUP PLOTS TO MEASURE
TRENDS IN DEER AND ELK POPULATIONS.
WILDL. SOC. BULL.,
V.12, P.147-55. 1984.
ROWLAND, MARY M.
WHITE, GARY C. (LS-6)
KARLEN, E. M. (LS-6)

16-44
WATER SUPPLY AT LOS ALAMOS DURING 1982.
LOS ALAMOS,
1984. 46P. (LA-09896-PR)
PURTYMUN, WILLIAM D. (HSE-8)
BECKER, NAOMI M. (HSE-8)
MAES, MAX N. (HSE-8)

16-45
WAVE PROPAGATION IN INELASTIC MEDIA.
INTL. CONF. OF THE CENTER FOR
NONLINEAR STUDIES, 3RD, 1983,
LOS ALAMOS. PROC., P.163-70.
NORTH-HOLLAND PHYSICS PUBL., 1984.
(530.15/161CE/3RD/1983)
MARGOLIN, LEONARD G. (ESS-5)

17. EXPERIMENTAL PLASMA PHYSICS

- 17-1
ANALYSIS OF FLUCTUATING SIGNALS FROM A MULTICHORD INTERFEROMETER.
J. APPL. PHYS.,
V.56, P.757-73. 1984.
RUSBRIDGE, MICHAEL G.
JACOBSON, ABRAM R. (CTR-2)
- 17-2
COAXIAL SLOW SOURCE - A QUASI - STATIC FRC FORMATION CONCEPT.
TIC,
1984. 5P. MN (LA-UR-84-0603)
MC KENNA, KENNETH F. (CTR-3)
GRIBBLE, ROBERT F. (CTR-4)
- 17-3
COUPLING OF ENERGY AND FLUX LOSSES IN FIELD - REVERSED CONFIGURATIONS.
COMM. PLASMA PHYS. CONTROLLED FUSION,
V.8, P.237-42. 1984.
TUSZEWSKI, M. (CTR-3)
- 17-4
CURRENT SENSING IN MAGNETIC FUSION EXPERIMENTS FOR FARADAY ROTATION IN SINGLE - MODE OPTICAL FIBERS.
TIC,
1983. 8P. MN (LA-UR-83-3480)
CHANDLER, GEORGE I. (CTR-8)
JAHODA, FRANZ C. (CTR-8)
- 17-5
DIAGNOSTICS OF A HIGH CURRENT CAPILLARY DISCHARGE.
TIC,
1984. 6P. MN (LA-UR-84-1249)
KANIA, DON R. (P-14)
JONES, LARRY A. (P-1)
- 17-6
ELECTRICAL DESIGN OF A HIGH CURRENT DENSITY AIR - CORE REVERSED - FIELD PINCH ZTP.
TIC,
1983. 5P. MN (LA-UR-83-3490)
REASS, WILLIAM A. (CTR-4)
MELTON, JIMMY G. (CTR-4)
GRIBBLE, ROBERT F. (CTR-4)
- 17-7
ELECTRON TEMPERATURE MEASUREMENTS IN THE FIELD-REVERSED CONFIGURATION EXPERIMENT FRX - C.
NUCL. FUSION,
V.24, P.177-81. 1984.
REJ, DONALD J. (CTR-3)
ARMSTRONG, WILLIAM T. (CTR-3)
- 17-8
EVALUATION OF LIMITER CONFIGURATIONS IN ZT - 40M.
J. NUCL. MATER.,
V.128-9, P.517-23. 1984.
DOWNING, JAMES N., JR. (CTR-7)
BUCHENAUER, C. JERALD (CTR-7)
INGRAHAM, JOHN C. (CTR-2)
KRAKOWSKI, ROBERT A. (CTR-12)
PHILLIPS, JAMES A. (CTR-DO)
WATT, ROBERT G. (CTR-7)
- 17-9
EXPERIMENTAL STUDY OF THE EQUILIBRIUM OF FIELD - REVERSED CONFIGURATIONS.
COMM. PLASMA PHYS. CONTROLLED FUSION,
V.26, P.991-1005. 1984.
TUSZEWSKI, M. (CTR-3)
- 17-10
F - 0 PUMPING AND FIELD MODULATION EXPERIMENTS ON A REVERSED FIELD PINCH DISCHARGE.
PHYS. FLUIDS,
V.27, P.548-51. 1984.
SCHOENBERG, KURT F. (CTR-4)
BUCHENAUER, C. JERALD (CTR-7)
MASSEY, ROBERT S. (CTR-1)
MELTON, JIMMY G. (CTR-4)
MOSES, RONALD W., JR. (CTR-6)
NEBEL, R. A. (CTR-6)
PHILLIPS, JAMES A. (CTR-DO)
- 17-11
HIGH DENSITY Z - PINCH RESEARCH.
TIC,
1983. 5P. MN (LA-UR-83-2311)
SHLACHTER, JACK S. (CTR-DOT)
- 17-12
INITIATION AND ACCRETION EXPERIMENTS ON THE HDZP.
TIC,
1984. 9P. MN (LA-UR-84-1076)
SHLACHTER, JACK S. (CTR-DOT)
HAMMEL, JAY E. (CTR-DO)
SCUDDER, DAVID W. (CTR-DOT)
- 17-13
INTERACTION OF THE NEUTRAL DEUTERIUM FLUX WITH A FIELD - REVERSED CONFIGURATION.
TIC,
1984. 5P. MN (LA-UR-84-0601)
REJ, DONALD J. (CTR-3)
- 17-14
INTERNAL MAGNETIC FIELD MEASUREMENTS IN A TRANSLATING FIELD - REVERSED CONFIGURATION.
TIC,
1984. 5P. MN (LA-UR-84-0870)
ARMSTRONG, WILLIAM T. (CTR-3)
CHRIEN, ROBERT E. (CTR-3)
MC KENNA, KENNETH F. (CTR-3)
REJ, DONALD J. (CTR-3)
SHERWOOD, EUGENE G. (CTR-11)
SIEMON, RICHARD E. (CTR-3)
TUSZEWSKI, M. (CTR-3)
- 17-15
INTERPRETATION OF END-ON INTERFEROMETRY IN FIELD-REVERSED CONFIGURATIONS.
PHYS. FLUIDS,
V.27, P.1058-60. 1984.
TUSZEWSKI, M. (CTR-3)
MC KENNA, KENNETH F. (CTR-3)
- 17-16
LOCALIZED PLASMA - DENSITY DISTURBANCE PROPAGATING ALONG BETA IN THE INTERIOR OF THE ZT-40M REVERSED-FIELD PINCH.
APPL. PHYS. LETT.,
V.45, P.34-6. 1984.
NALESSO, GIANFRANCO
JACOBSON, ABRAM R. (CTR-2)
- 17-17
MODEL OF ENERGY CONFINEMENT IN THE REVERSED FIELD PINCH.
COMM. PLASMA PHYS. CONTROLLED FUSION,
V.26, P.1119-25. 1984.
MILLER, GUTHRIE (CTR-2)
- 17-18
NONLOCAL DC ELECTRICAL CONDUCTIVITY OF A LORENTZ PLASMA IN A STOCHASTIC MAGNETIC FIELD.
PHYS. REV.,
V.29A, P.3335-42. 1984.
JACOBSON, ABRAM R. (CTR-2)
MOSES, RONALD W., JR. (CTR-6)
- 17-19
OPTICAL FEEDBACK, WAVELENGTH RESPONSE, AND INTERFERENCE EFFECTS OF SELF-PUMPED PHASE CONJUGATION IN BARIUM TITANIUM OXYGEN.
OPT. LETT.,
V.9, P.362-4. 1984.
JAHODA, FRANZ C. (CTR-8)
WEBER, PAUL G. (CTR-8)
FEINBERG, J.

17-20
OSCILLATING FIELD CURRENT DRIVE FOR
REVERSED FIELD PINCH DISCHARGES.

J. APPL. PHYS.,
V.56, P.2519-29. 1984.
SCHOENBERG, KURT F. (CTR-4)
GRIBBLE, ROBERT F. (CTR-4)
BAKER, DON A. (CTR-2)

17-21
PARAMETERS OF A POSSIBLE FRC ADIABATIC
COMPRESSION EXPERIMENT.

TIC,
1984. 5P. MN (LA-UR-84-0583)
TUSZEWSKI, M. (CTR-3)
SIEMON, RICHARD E. (CTR-3)

17-22
PLASMA RESISTIVITY IN THE PRESENCE
OF A REVERSED - FIELD PINCH DYNAMO.

PHYS. FLUIDS,
V.27, P.1671-5. 1984.
SCHOENBERG, KURT F. (CTR-4)
MOSES, RONALD W., JR. (CTR-6)
HAGENSON, RANDY L.

17-23
POLARIZED RADIAL MAGNETIC FIELDS AND
OUTWARD PLASMA FLUXES DURING SHALLOW
REVERSAL DISCHARGES IN THE ZT - 40M
REVERSED - FIELD PINCH.

J. APPL. PHYS.,
V.65, P.125-37. 1984.
JACOBSON, ABRAM R. (CTR-2)
RUSBRIDGE, MICHAEL G.
BURKHARDT, LOUIS C. (CTR-2)

17-24
POLOIDAL FIELD SYSTEM DESIGN FOR THE
ZT - H REVERSED FIELD PINCH EXPERIMENT.

TIC,
1983. 7P. MN (LA-UR-83-3476)
SCHOENBERG, KURT F. (CTR-4)
GRIBBLE, ROBERT F. (CTR-4)
LINTON, THEODORE W. (CTR-4)
REASS, WILLIAM A. (CTR-4)

17-25
POSSIBLE PLASMA - DYNAMO MECHANISM
DRIVEN BY PARTICLE TRANSPORT.

PHYS. FLUIDS,
V.27, P.7-9. 1984.
JACOBSON, ABRAM R. (CTR-2)

17-26
RECENT RESULTS ON FRC TRANSPORT.

TIC,
1984. 5P. MN (LA-UR-84-0584)
TUSZEWSKI, M. (CTR-3)

17-27
RESISTIVE EVOLUTION OF GENERAL PLASMA
CONFIGURATIONS.

LOS ALAMOS,
1984. 28P. (LA-10178-MS)
MILLER, GUTHRIE (CTR-2)

17-28
RFP ENERGY EVOLUTION AND CONTAINMENT
IN THE PRESENCE OF GIANT SAWTEETH.

PHYS. FLUIDS,
V.27, P.784-6. 1984.
WATT, ROBERT G. (CTR-7)
LITTLE, EDWARD M. (CTR-7)

17-29
ROLE OF MAGNETIC RECONNECTION PHENOMENA
IN THE REVERSED - FIELD PINCH.

MAGNETIC RECONNECTION IN SPACE AND
LABORATORY PLASMAS, 1983, LOS ALAMOS.
PROC., P.332-9. AGU, 1984.
(538.766/M196RE/1983)
ALSO PUBLISHED IN:
TIC,
1983. 35P. MN (LA-UR-84-0714)
BAKER, DON A. (CTR-2)

17-30
SOFT X - RAY ARRAY RESULTS ON
THE ZT-40M REVERSED-FIELD PINCH.

PHYS. FLUIDS,
V.27, P.551-4. 1984.
WURDEN, GLEN A. (CTR-8)

17-31
STUDY OF LIMITER DAMAGE IN A MAGNETIC
FIELD ERROR REGION OF THE ZT - 40M
EXPERIMENT.

TIC,
1983. 6P. MN (LA-UR-83-2972)
MAKOWITZ, HENRY

17-32
SUSTAINMENT DYNAMO REEXAMINED
NONLOCAL ELECTRICAL CONDUCTIVITY OF
PLASMA IN A STOCHASTIC MAGNETIC FIELD.

TIC,
1984. 5P. MN (LA-UR-84-0524)
JACOBSON, ABRAM R. (CTR-2)
MOSES, RONALD W., JR. (CTR-6)

17-33
SUSTAINMENT DYNAMO REEXAMINED-
NONLOCAL ELECTRICAL CONDUCTIVITY OF
A PLASMA IN A STOCHASTIC MAGNETIC
FIELD.

PHYS. REV. LETT.,
V.52, P.2041-3. 1984.
JACOBSON, ABRAM R. (CTR-2)
MOSES, RONALD W., JR. (CTR-6)

17-34
TOROIDAL EQUILIBRIUM IN AN IRON CORE
REVERSED-FIELD PINCH.

NUCL. FUSION,
V.24, P.789-94. 1984.
MILLER, GUTHRIE (CTR-2)

17-35
TOROIDAL MAGNETIC FIELD SYSTEM FOR A
2 - MA REVERSED FIELD PINCH EXPERIMENT.

TIC,
1983. 7P. MN (LA-UR-83-3489)
MELTON, JIMMY G. (CTR-4)
LINTON, THEODORE W. (CTR-4)

17-36
TRANSLATION OF FIELD - REVERSED
CONFIGURATIONS IN THE FRX - C/T
EXPERIMENT.

TIC,
1984. 6P. MN (LA-UR-84-0602)
REJ, DONALD J. (CTR-3)
ARMSTRONG, WILLIAM T. (CTR-3)
CHRIEN, ROBERT E. (CTR-3)
KLINGNER, PHILLIP L. (CTR-5)
LINFORD, RULON K. (CTR-DO)
MC KENNA, KENNETH F. (CTR-3)
MILROY, RICHARD D.
SHERWOOD, EUGENE G. (CTR-11)
SIEMON, RICHARD E. (CTR-3)
TUSZEWSKI, M. (CTR-3)

17-37
TWO NOVEL PLASMA DIAGNOSTICS.

TIC,
1984. 5P. MN (LA-UR-84-0923)
JAHODA, FRANZ C. (CTR-8)

17-38
ZERO - DIMENSIONAL TRANSPORT MODEL FOR
FIELD - REVERSED CONFIGURATIONS.

PHYS. FLUIDS,
V.27, P.1514-20. 1984.
REJ, DONALD J. (CTR-3)
TUSZEWSKI, M. (CTR-3)

18. FUSION SYSTEMS

- 18-1
ANALYSIS OF SURFACE CURRENTS ON THE CTX
MESH FLUX CONSERVER.
TIC,
1984. 5P. MN (LA-UR-84-0623)
WRIGHT, BRADFORD L. (CTR-5)
- 18-2
COMPACT REVERSED-FIELD PINCH REACTORS
(CRFPR) - PRELIMINARY ENGINEERING
CONSIDERATIONS.
LOS ALAMOS.
1984. 405P. (LA-10200-MS)
HAGENSON, RANDY L.
KRAKOWSKI, ROBERT A. (CTR-12)
BATHKE, CHARLES G. (CTR-12)
MILLER, RONALD L. (CTR-12)
EMBRECHTS, MARK J. (CTR-12)
SCHNURR, NORMAN M. (WX-4)
BATTAT, MORRIS E.
LABAUVE, RAPHAEL J. (T-2)
DAVIDSON, J. WILEY (S-4)
- 18-3
CONCEPTUAL DESIGN FOR AN AIR CORE 2
MEG - AMP REVERSED FIELD EXPERIMENT.
TIC,
1983. 5P. MN (LA-UR-83-3452)
HAMMER, CHARLES F. (CTR-4)
- 18-4
CONFINEMENT TIME AND ENERGY BALANCE
IN THE CTX SPHEROMAK.
TIC,
1984. 6P. MN (LA-UR-84-0620)
BARNES, CHRISTOPHER W. (CTR-5)
HENINS, IVARS (CTR-5)
HOIDA, HIROSHI W. (CTR-5)
JARBOE, THOMAS R. (CTR-5)
- 18-5
DESIGN AND CONSTRUCTION DETAILS OF THE
FRX - C/T DEVICE - A COMPACT TOROID
PLASMA TRANSLATION EXPERIMENT.
LOS ALAMOS,
1984. 15P. (LA-10108-MS)
REJ. DONALD J. (CTR-3)
- 18-6
EXPERIMENTAL RESULTS FROM HYDROGEN/
DEUTERIUM DISTILLATIONS AT THE
TRITIUM SYSTEMS TEST ASSEMBLY.
FUSION TECHNOL.,
V.6, P.625-8, 1984.
SHERMAN, ROBERT H. (MST-3)
BARTLIT, JOHN R. (MST-3)
VEIRS, KIRK D. (CHM-2)
- 18-7
IMPROVED ACTIVATION CROSS SECTIONS FOR
VANADIUM AND TITANIUM.
TIC,
1983. 7P. MN (LA-UR-83-2567)
MUIR, DOUGLAS W. (T-2)
ARTHUR, EDWARD D. (T-2)
- 18-8
MIXED MODE OPERATION IN CTX.
TIC,
1984. 4P. MN (LA-UR-84-0626)
HOIDA, HIROSHI W. (CTR-5)
BARNES, CHRISTOPHER W. (CTR-5)
HENINS, IVARS (CTR-5)
JARBOE, THOMAS R. (CTR-5)
- 18-9
OHMIC HEATING OF A SPHEROMAK TO 100 EV.
PHYS. FLUIDS,
V.27, P.13-5, 1984.
JARBOE, THOMAS R. (CTR-5)
BARNES, CHRISTOPHER W. (CTR-5)
HENINS, IVARS (CTR-5)
HOIDA, HIROSHI W. (CTR-5)
KNOX, STEPHEN O. (CTR-5)
LINFORD, RULON K. (CTR-DO)
SHERWOOD, ARTHUR R. (CTR-5)
- 18-10
OHMIC HEATING TO 100 - EV AND HELICITY
INJECTION IN CTX.
TIC,
1984. 5P. MN (LA-UR-84-0621)
HENINS, IVARS (CTR-5)
BARNES, CHRISTOPHER W. (CTR-5)
HOIDA, HIROSHI W. (CTR-5)
JARBOE, THOMAS R. (CTR-5)
KLINGNER, PHILLIP L. (CTR-5)
KNOX, STEPHEN O. (CTR-5)
PLATTS, D. A. (CTR-5)
SHERWOOD, ARTHUR R. (CTR-5)
WRIGHT, BRADFORD L. (CTR-5)
- 18-11
PLASMA ENGINEERING DESIGN OF A COMPACT
REVERSED - FIELD PINCH REACTOR (CRFPR).
TIC,
1983. 9P. MN (LA-UR-83-3505)
BATHKE, CHARLES G. (CTR-12)
EMBRECHTS, MARK J. (CTR-12)
HAGENSON, RANDY L.
KRAKOWSKI, ROBERT A. (CTR-12)
MILLER, RONALD L. (CTR-12)
- 18-12
RADIATION TRANSPORT, APRIL 1, 1983 -
DECEMBER 31, 1983.
LOS ALAMOS,
1984. 89P. (LA-10189-PR)
O'DELL, R. DOUGLAS (X-6)
- 18-13
SPACE RESOLVED ABSOLUTELY CALIBRATED
VUV SPECTROSCOPIC MEASUREMENTS ON CTX.
TIC,
1984. 6P. MN (LA-UR-84-0622)
HOIDA, HIROSHI W. (CTR-5)
BARNES, CHRISTOPHER W. (CTR-5)
HENINS, IVARS (CTR-5)
JARBOE, THOMAS R. (CTR-5)
SHERWOOD, ARTHUR R. (CTR-5)
- 18-14
STELLARATOR HELICAL VACUUM VESSEL.
TIC,
1983. 4P. MN (LA-UR-83-3439)
YOVORNIK, EDWARD J. (CTR-4)
- 18-15
STRATEGIC ROLE OF REACTOR SYSTEMS
STUDIES FOR ALTERNATIVE FUSION
CONCEPTS.
TRANS. AM. NUCL. SOC.,
V.46, P.180-1, 1984.
KRAKOWSKI, ROBERT A. (CTR-12)
- 18-16
SUBSYSTEM COST DATA FOR THE TRITIUM
SYSTEMS TEST ASSEMBLY.
TIC,
1983. 8P. MN (LA-UR-83-3415)
BARTLIT, JOHN R. (MST-3)
ANDERSON, JAMES L. (MST-3)
REXROTH, VERNER G. (MST-7)
- 18-17
SUSTAINED SPHEROMAK TECHNOLOGY.
TIC,
1984. 4P. MN (LA-UR-84-0624)
PLATTS, D. A. (CTR-5)
SHERWOOD, ARTHUR R. (CTR-5)
JARBOE, THOMAS R. (CTR-5)
LINFORD, RULON K. (CTR-DO)
HOIDA, HIROSHI W. (CTR-5)
HENINS, IVARS (CTR-5)
- 18-18
USE OF THE STREAMING MATRIX HYBRID
METHOD FOR DISCRETE ORDINATES FUSION
REACTOR CALCULATIONS.
TRANS. AM. NUCL. SOC.,
V.46, P.275-7, 1984.
ALSO PUBLISHED IN:
TIC,
1984. 7P. MN (LA-UR-84-0170)
BATTAT, MORRIS E.
DAVIDSON, J. WILEY (S-4)
DUDZIAK, DONALD J. (S-4)
THAYER, GARY R. (S-4)

20. GEOTHERMAL ENERGY—ENVIRONMENTAL RESEARCH

20-1

ENVIRONMENTAL STUDIES CONDUCTED AT THE
FENTON HOT DRY ROCK GEOTHERMAL
DEVELOPMENT SITE.

LOS ALAMOS,

1984. 19P. (LA-09967-MS)

MIERA, FELIX R., JR. (LS-6)

LANGHORST, GARY J. (LS-6)

MC ELLIN, S. (LS-6)

MONTOYA, CONSUELO (LS-6)

20-2

POTENTIAL EFFECTS OF HYDROGEN SULFIDE
GAS FROM GEOTHERMAL ENERGY CONVERSION
ON TWO PLANT SPECIES NATIVE TO NORTHERN
NEW MEXICO.

LOS ALAMOS,

1984. 116P. (LA-09984-T)

GONZALES, GILBERT JOE (LS-6)

21. GEOTHERMAL ENERGY—EXPLORATION TECHNOLOGY

21-1
CORRELATION OF WIRELINE LOG CHARACTERISTICS WITH HYDROTHERMAL ALTERATION AND OTHER RESERVOIR PROPERTIES OF THE SALTON SEA AND WESTMORLAND GEOTHERMAL FIELDS, IMPERIAL VALLEY, CALIFORNIA, USA
LOS ALAMOS,
1984. 100P. (LA-10128-MS)
MURAMOTO, FRANK S.
ELDERS, WILFRED A.

21-2
DOWNHOLE SEISMIC MONITORING OF AN ACID TREATMENT IN THE BEOWAWE GEOTHERMAL FIELD.
TIC,
1984. 6P. MN (LA-UR-84-1106)
BATRA, RAVI (ESS-3)
ALBRIGHT, JAMES N. (ESS-4)
BRADLEY, CHRISTOPHER C. (CTR-5)

21-3
FRACTURING OPERATIONS IN A DRY GEOTHERMAL RESERVOIR.
TIC,
1983. 35P. MN (LA-UR-83-2300)
ROWLEY, JOHN C. (ESS-4)
PETTITT, ROLAND A. (ESS-4)
HENDRON, ROBERT H. (ESS-4)
SINCLAIR, A. RICHARD
NICHOLSON, ROBERT W.

21-4
HOT DRY ROCK GEOTHERMAL RESERVOIR FRACTURING INITIAL FIELD OPERATIONS
1982.
TIC,
1983. 8P. MN (LA-UR-83-1593)
ROWLEY, JOHN C. (ESS-4)
PETTITT, ROLAND A. (ESS-4)
MATSUNAGA, ISAO
DREESEN, DONALD N. (ESS-4)
NICHOLSON, ROBERT W.
SINCLAIR, A. RICHARD

21-5
HYDROGEOCHEMISTRY OF THE QUALIBOU CALDERA GEOTHERMAL SYSTEM, ST. LUCIA WEST INDIES.
TIC,
1984. 8P. MN (LA-UR-84-1208)
GOFF, FRASER E. (ESS-2)
VUATAZ, FRANCOIS (ESS-2)

21-6
LOGGING TECHNOLOGY FOR HIGH-TEMPERATURE GEOTHERMAL BOREHOLES.
TIC,
1984. 10P. MN (LA-UR-84-1639)
DENNIS, BERT R. (ESS-6)

21-7
LOW - TEMPERATURE GEOTHERMAL POTENTIAL OF THE OJO CALIENTE WARM SPRINGS AREA, NORTHERN NEW MEXICO.
LOS ALAMOS,
1984. 56P. (LA-10105-OBES)
VUATAZ, FRANCOIS (ESS-2)
STIX, JOHN (ESS-2)
GOFF, FRASER E. (ESS-2)
PEARSON, CHRISTOPHER F. (ESS-3)

21-8
PRELIMINARY REPORT ON FRACTURED IGNEOUS ROCK ENVIRONMENT TEST PITS.
TIC,
1983. 7P. MN (LA-UR-83-1797)
MATHEWS, MARK A. (ESS-3)
SCOTT, J. F.
LADELFE, CAROL M. (ESS-3)

21-9
RESERVOIR SIZING USING INERT AND CHEMICALLY REACTING TRACERS.
TIC,
1984. 25P. MN (LA-UR-84-2054)
ROBINSON, BRUCE A.
TESTER, JEFFERSON W.
BROWN, LEE F. (ESS-5)

21-10
ROOSEVELT HOT SPRINGS/HOT DRY ROCK PROSPECT AND EVALUATION OF THE ACCORD I - 26 WELL.
TIC,
1983. 4P. MN (LA-UR-83-1594)
SHANNON, SPENCER S., JR. (ESS-1)
ROWLEY, JOHN C. (ESS-4)
PETTITT, ROLAND A. (ESS-4)
GOFF, FRASER E. (ESS-2)
VUATAZ, FRANCOIS (ESS-2)

21-11
WELL LOG INTERPRETATION OF CERTAIN GEOTHERMAL FIELDS IN THE IMPERIAL VALLEY, CALIFORNIA.
LOS ALAMOS,
1984. 23P. (LA-10067-MS)
ERSHAGHI, IRAJ
ABDASSAH, DODDY

22. GEOTHERMAL ENERGY—RESOURCE DEVELOPMENT

22-1 DOES HYDRAULIC FRACTURING THEORY WORK IN JOINTED ROCK MASSES?

TIC,
1983. 7P. MN (LA-UR-83-1677)
MURPHY, HUGH D. (ESS-4)
KEPPLER, H. (ESS-4)
DASH, ZORA V. (ESS-4)

22-2 EVALUATION OF THE ST. LUCIA GEOTHERMAL RESOURCE. ENGINEERING INVESTIGATION AND COST ESTIMATE.

LOS ALAMOS,
1984. 51P. (LA-10209-MS)
ALTSEIMER, JOHN H. (S-4)
EDESKUTY, FREDERICK J. (S-4)
TAYLOR, WILLIAM B.
WILLIAMSON, KENNETH D., JR. (S-4)

22-3 EVALUATION OF THE ST. LUCIA GEOTHERMAL RESOURCE - GEOLOGIC, GEOPHYSICAL AND HYDROGEOCHEMICAL INVESTIGATIONS.

LOS ALAMOS,
1984. 91P. (LA-10234-MS)
ANDER, MARK E. (ESS-3)
GOFF, FRASER E. (ESS-2)
HANOLD, ROBERT J. (ESS-DOT)
HEIKEN, GRANT H. (ESS-1)
VUATAZ, FRANCOIS (ESS-2)
WOHLETZ, KENNETH H. (ESS-1)

22-4 HDR GEOTHERMAL ENERGY - A PROGRESS REPORT.

TIC,
1983. 5P. MN (LA-UR-83-1569)
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC.,
V.45, P.6-7. 1983.
NUNZ, GREGORY J. (ESS-DOT)
FRANKE, PAUL R., JR. (ESS-DOT)

22-5 MICROEARTHQUAKES INDUCED DURING HYDRAULIC FRACTURING AT THE FENTON HILL HDR SITE - THE 1982 EXPERIMENTS.

TIC,
1983. 7P. MN (LA-UR-83-1678)
KEPPLER, H. (ESS-4)
PEARSON, CHRISTOPHER F. (ESS-3)
POTTER, ROBERT M. (ESS-4)
ALBRIGHT, JAMES N. (ESS-4)

22-6 PETROGRAPHIC ANALYSIS AND CORRELATION OF VOLCANIC ROCKS IN BOSTIC 1 - A WELL, NEAR MOUNTAIN HOME, IDAHO.

LOS ALAMOS,
1984. 29P. (LA-09966-HDR)
ARNEY, BARBARA H. (ESS-1)
GARDNER, JAMIE N. (ESS-2)
BELLUOMINI, STEPHEN G.

22-7 RECONNAISSANCE GEOLOGIC STRIP MAP FROM KINGMAN TO SOUTH OF BILL WILLIAMS MOUNTAIN, ARIZONA.

LOS ALAMOS,
1983. UNPAGED. (LA-09202-MAP)
GOFF, FRASER E. (ESS-2)
EDDY, ANDREA C. (G-6)
ARNEY, BARBARA H. (ESS-1)

22-8 USING CHEMICALLY REACTIVE TRACERS TO DETERMINE TEMPERATURE CHARACTERISTICS OF GEOTHERMAL RESERVOIRS.

TIC,
1984. 6P. MN (LA-UR-84-1186)
ROBINSON, BRUCE A.
TESTER, JEFFERSON W.
BROWN, LEE F. (ESS-5)

24. GENERAL REACTOR TECHNOLOGY

- 24-1
BUCKLING OF STEEL CONTAINMENT SHELLS
UNDER TIME - DEPENDENT LOADING.
LOS ALAMOS,
1984. 33P. (LA-10087-MS)
BABCOCK, C. D., JR. (Q-13)
BAKER, WILFRED E.
FLY, GERALD W. (Q-13)
BENNETT, JOEL G. (Q-13)
- 24-2
CALIBRATION AND QUALIFICATION OF THE
LOS ALAMOS FAILURE MODEL (LAFM).
LOS ALAMOS,
1984. 53P. (LA-10041-MS)
BAARS, RALPH E. (Q-7)
- 24-3
COMPARISON OF BEACON AND COMPARE REACTOR
CAVITY SUBCOMPARTMENT ANALYSES.
LOS ALAMOS,
1984. 51P. (LA-09776-MS)
BURKETT, MICHAEL W. (Q-6)
IDAR, E. S. (Q-6)
GIDO, RICHARD G. (Q-7)
LIME, JAMES F. (Q-7)
KOESTEL, A.
- 24-4
COMPUTER-AUTOMATED NEUTRON ACTIVATION
ANALYSIS SYSTEM.
TIC,
1983. 7P. MN (LA-UR-83-3405)
MINOR, MICHAEL M. (INC-5)
GARCIA, SAMMY R. (INC-5)
- 24-5
EVALUATION OF THE CRACK PLANE
EQUILIBRIUM MODEL FOR PREDICTING
PLASTIC FRACTURE.
LOS ALAMOS,
1984. 17P. (LA-10129-MS)
BUTLER, THOMAS A. (Q-13)
SMITH, F. W.
- 24-6
FUEL ROD DEBRIS PACKING MODEL.
NUCL. TECHNOL.,
V.67, P.66-71. 1984.
MOORE, J. A.
- 24-7
HIGH-EFFICIENCY PARTICULATE AIR FILTER
BEHAVIOR AT HIGH-SPEED FLOWS.
LOS ALAMOS,
1984. 12P. (LA-10078-MS)
TANG, P. K. (X-7)
GREGORY, WILLIAM S. (Q-6)
RICKETTS, C. I.
SMITH, PHILLIP R.
- 24-8
HMS - A COMPUTER PROGRAM FOR TRANSIENT,
THREE - DIMENSIONAL MIXING GASES.
LOS ALAMOS,
1984. 38P. (LA-10267-MS)
TRAVIS, JOHN R. (T-3)
- 24-9
LOS ALAMOS OMEGA WEST REACTOR.
TIC,
1984. 8P. MN (LA-UR-83-3404)
LYLE, ALVIN R. (INC-5)
WILLIAMS, HERBERT T. (INC-5)
BUNKER, MERLE E. (INC-5)
- 24-10
LOW POWER UNATTENDED DEFENSE REACTOR.
TIC,
1984. 8P. MN (LA-UR-84-1480)
KIRCHNER, WALTER L. (Q-12)
MEIER, KARL L. (Q-13)
- 24-11
NUCLEAR ELECTRIC CAPACITY EXPANSION IN
MEXICO - SYSTEM EFFECTS OF REACTOR
SIZE AND COST.
TRANS. AM. NUCL. SOC.,
V.46, P.595-6. 1984.
ALSO PUBLISHED IN:
TIC,
1984. 5P. MN (LA-UR-84-0064)
THAYER, GARY R. (S-4)
ABBEY, DAVID S. (S-2)
HARDIE, R. WAYNE (S-DOT)
ENRIQUEZ, RAUL PEREZ
URIA, ERNESTO GRIJALVA
- 24-12
ON BROADENING FAILURE RATE DISTRIBUTIONS
IN PRA UNCERTAINTY ANALYSES.
RISK ANAL.,
V.4, P.15-22. 1984.
MARTZ, HARRY F., JR. (S-1)
- 24-13
PROCEEDINGS OF NINTH ANNUAL STATISTICS
SYMPOSIUM ON NATIONAL ENERGY ISSUES,
OCTOBER 19-21, 1983.
LOS ALAMOS,
1984. 195P. (LA-10127-C)
BRYSON, MAURICE C. (S-1)
- 24-14
RADIATION TRANSPORT. OCTOBER 1, 1982
MARCH 31, 1983.
LOS ALAMOS,
1984. 106P. (LA-10114-PR)
O'DELL, R. DOUGLAS (X-6)
- 24-15
REVIEW OF PROPOSED FAILURE CRITERIA
FOR DUCTILE MATERIALS.
LOS ALAMOS,
1984. 29P. (LA-10007-MS)
JU, F. D.
BUTLER, THOMAS A. (Q-13)
- 24-16
SOLA - PTS - A TRANSIENT, THREE-
DIMENSIONAL ALGORITHM FOR FLUID-
THERMAL MIXING AND WALL HEAT TRANSFER IN
COMPLEX GEOMETRIES.
LOS ALAMOS,
1984. 94P. (LA-10132-MS)
DALY, BART J. (T-3)
TORREY, MARTIN D. (T-3)
- 24-17
STATISTICAL ANALYSIS OF NUCLEAR POWER
PLANT PUMP FAILURE RATE VARIABILITY-
SOME PRELIMINARY RESULTS.
LOS ALAMOS,
1984. 52P. (LA-10014-MS)
MARTZ, HARRY F., JR. (S-1)
WHITEMAN, DAVID E. (S-1)
- 24-18
THREE - DIMENSIONAL CALCULATIONS OF
TRANSIENT FLUID - THERMAL MIXING IN THE
DOWNCOMER OF THE CALVERT CLIFFS - 1
PLANT USING SOLA - PTS.
LOS ALAMOS,
1984. 84P. (LA-10039-MS)
DALY, BART J. (T-3)
- 24-19
TRAC - PD2 INDEPENDENT ASSESSMENT.
LOS ALAMOS,
1984. 403P. (LA-10166-MS)
KNIGHT, THAD D. (Q-9)
- 24-20
TRAC-PF1. AN ADVANCED BEST-ESTIMATE
COMPUTER PROGRAM FOR PRESSURIZED WATER
REACTOR ANALYSIS.
LOS ALAMOS,
1984. 578P. (LA-09944-MS)
LILES, DENNIS R. (Q-9)
- 24-21
VERIFICATION OF MULTIDIMENSIONAL REACTOR
SAFETY ANALYSIS CODES DEVELOPED IN
GROUP T-3.
LOS ALAMOS,
1980. 26P. (LA-08637-MS)
DALY, BART J. (T-3)

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

25-1
ACCOUNTING DIVISION - ORGANIZATIONAL
PROFILE.
LOS ALAMOS,
1984. 4P. (LALP-83-050)
SNYDER, CONNIE (IS-1)

25-2
ADMINISTRATIVE DATA PROCESSING
DIVISION - ORGANIZATIONAL PROFILE.
LOS ALAMOS,
1984. 4P. (LALP-83-060)
NEARY, JOAN (IS-1)

25-3
ALTERNATIVE ENERGY SOURCES PROGRAM
OFFICE — ORGANIZATIONAL PROFILE.
LOS ALAMOS,
1984. 6P. (LALP-84-005)
NEARY, JOAN (IS-1)

25-4
ANALYSIS AND ASSESSMENT DIVISION—
ORGANIZATIONAL PROFILE.
LOS ALAMOS,
1984. 4P. (LALP-84-032)
WALLER, RAY A. (S-DO)

25-5
ANNOTATED BIBLIOGRAPHY ON DECISION
ANALYSIS WITH APPLICATION TO PROJECT
MANAGEMENT.
LOS ALAMOS,
1984. 49P. (LA-10027-MS)
BOOKER, JANE M. (S-1)
BRYSON, MAURICE C. (S-1)

25-6
APPLIED THEORETICAL PHYSICS DIVISION—
ORGANIZATIONAL PROFILE.
LOS ALAMOS,
1984. 6P. (LALP-83-061)
NEARY, JOAN (IS-1)

25-7
ATOMS FOR PEACE AFTER THIRTY YEARS.
55P. CENTER FOR STRATEGIC AND
INTERNATIONAL STUDIES, 1984.
(333.792/A881PE)
BOLET, ADELA MARIA
EBINGER, CHARLES K.
PILAT, JOSEPH F. (ADPA-SA)
PENDLEY, ROBERT E. (ADPA)

25-8
BUDGET DIVISION - ORGANIZATIONAL
PROFILE.
LOS ALAMOS,
1984. 2P. (LALP-83-054)
SNYDER, CONNIE (IS-1)

25-9
CENTER FOR MATERIALS SCIENCE—
ORGANIZATIONAL PROFILE.
LOS ALAMOS,
1984. 4P. (LALP-83-049)
SNYDER, CONNIE (IS-1)

25-10
EARTH AND SPACE SCIENCES DIVISION—
ORGANIZATIONAL PROFILE.
LOS ALAMOS,
1984. 5P. (LALP-84-048)
PONDER, GLENDA M. (ESS-4)

25-11
EVALUATION OF THE ST. LUCIA GEOTHERMAL
RESOURCE. MACROECONOMIC MODELS.
LOS ALAMOS,
1984. 89P. (LA-10212-MS)
BURRIS, ANTHONY E. (S-2)
TROCKI, LINDA K. (S-2)
YEAMANS, MARILYN K. (S-2)
KOLSTAD, CHARLES D.

25-12
HIGH TECHNOLOGY OPPORTUNITIES IN
NEW MEXICO - A PROFILE.
LOS ALAMOS,
1984. 123P. (LALP-84-017)
METROPOLIS, PAT H. (IS-1)

25-13
INSTITUTIONAL SUPPORTING RESEARCH
HIGHLIGHTS IN PHYSICS AND
MATHEMATICS, FISCAL YEAR 1983.
LOS ALAMOS,
1984. 32P. (LALP-84-018)
VIGIL, JOHN C. (ADES)

25-14
ISOTOPES AND FUSION PROGRAM OFFICE—
ORGANIZATIONAL PROFILE.
LOS ALAMOS,
1984. 3P. (LALP-84-011)
NEARY, JOAN (IS-1)

25-15
LIFE SCIENCES DIVISION - ORGANIZATIONAL
PROFILE.
LOS ALAMOS,
1984. 8P. (LALP-83-024)
CHALLEM, JACK (IS-1)

25-16
MATERIALS MANAGEMENT DIVISION—
ORGANIZATIONAL PROFILE.
LOS ALAMOS,
1984. 4P. (LALP-83-053)
SNYDER, CONNIE (IS-1)

25-17
OBITUARY - HERBERT M. PARKER,
(1910 - 1984)
HEALTH PHYS.,
V.47, P.517-20. 1984.
HEALY, JOHN W. (HSE-DO)

25-18
OFFICE OF DEFENSE CONSTRUCTION—
ORGANIZATIONAL PROFILE.
LOS ALAMOS,
1984. 3P. (LALP-83-056)
NEARY, JOAN (IS-1)

25-19
PERFORMANCE APPRAISAL HANDBOOK
PERSONNEL APPRAISAL OUTLINE.
LOS ALAMOS,
1984. 11P. AND ATTACHMENTS AND
EXAMPLES. (LALP-84-019)
MC FARLAND, LARRY C. (ISD-6)

25-20
PUBLIC AFFAIRS OFFICE-ORGANIZATIONAL
PROFILE.
LOS ALAMOS,
1984. 4P. (LALP-84-024)
SNYDER, CONNIE (IS-1)

25-21
QUALITY CIRCLES IN A RESEARCH AND
DEVELOPMENT LABORATORY.
INTL. ASSOC. OF QUALITY CIRCLES,
TRANSACTIONS, 6TH, 1984, CINCINNATI.
PROC., P.413-5. IAQC. 1984.
CONNELLEE, BARBARA G. (MST-11)
THOMPSON, LOIS J. (PA-7)

25-22
RIO AZUL — MAYA CITY OF THE DEAD.
EXPLORERS J.,
V.62, P.162-7. 1984.
BARNETT, CHARLES R. (IS-2)
HARRISON, PETER D.

25-23
TECHNICAL AREA 55 ENTRY CONTROL SYSTEM
(ECS).
TIC,
1984. 8P. MN (LA-UR-84-0419)
BEAUMONT, ARTHUR J. (MST-11)
BRUNDIGE, EDWARD L. (MST-11)
DESJARDIN, ROBERT (E-5)
RIVERA, RAYNALDO V. (E-5)

25-24
TEST OPERATIONS OFFICE-
ORGANIZATIONAL PROFILE.
LOS ALAMOS,
1984. 4P. (LALP-83-059)
SNYDER, CONNIE (IS-1)

25-25
THOUGHTS ON HOW TO SOLVE THE
OVERCROWDING AT THE ANNUAL WEST
COAST MEETING.
EOS,
V.65, P.98. 1984.
BAKER, DANIEL N. (ESS-8)

25-26
U.S. STRATEGIC RESPONSES TO CONFLICT IN
THE 1980S.
STRATEGIC RESPONSES TO CONFLICT IN
THE 1980S, W.J. TAYLOR, JR., S.A.
MAARANEN & G.W. GONG, ED., P.483-99.
LEXINGTON BOOKS, 1984.
(355.033/S898RE)
TAYLOR, WILLIAM J., JR.
MAARANEN, STEVEN A. (ADPA)
GONG, GERRIT W.

25-27
WEAPONS PROGRAMS OFFICE-
ORGANIZATIONAL PROFILE.
LOS ALAMOS,
1984. 3P. (LALP-84-010)
NEARY, JOAN (IS-1)

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

- 26-1
ADVANCED WEAPONS TECHNOLOGY OFFICE
ORGANIZATIONAL PROFILE.
LOS ALAMOS,
1984. 4P. (LALP-84-004)
SNYDER, CONNIE (IS-1)
- 26-2
APPENDIX.
NUCLEAR FISSION R&D AND WASTE
MANAGEMENT, HEARINGS BEFORE THE ...
COMMITTEE ON SCIENCE & TECHNOLOGY
U.S. HOUSE ... 98TH CONGRESS ...
1983, WASHINGTON. PROC., P.721-33.
GPO, 1984. (328/C98-1/83-20/V.4)
HANSON, JOHN E. (Q-D0)
- 26-3
CONDITIONS AFFECTING THE BACKFILL IN A
WASTE PACKAGE FOR A REPOSITORY IN TUFF.
NUCLEAR WASTE MANAGEMENT PROGRAM,
SUMMARY REPORT, R.M. CHUNG, ED.,
P.57-8. NBS, 1983.
(621.483/W92BRE/1981)
JOHNSTONE, J. KEITH
VINE, ELIZABETH N. (CNC-7)
- 26-4
DIRECTED ENERGY BEAM WEAPONS.
ELECTRO-CULTURE, 1984, ARLINGTON.
PROC., P.79-86. SPIE, 1984.
(620/E38CU/1984)
BOYER, KEITH (DIR-0)
- 26-5
ELECTRON COLLISION PROCESSES IN THE
EARTH'S ATMOSPHERE.
UNITED STATES-JAPAN SEMINAR ON
ELECTRON-MOLECULE COLLISIONS AND
PHOTOIONIZATION PROCESSES, 1ST, 1982,
PASADENA. PROC., P.145-51. VERLAG
CHEMIE INTL., 1983.
(539/U58EL/1ST/1982)
CARTWRIGHT, DAVID C. (NSP/IF)
- 26-6
ENGINEERING SCIENCES RESEARCH
HIGHLIGHTS FISCAL YEAR 1983.
LOS ALAMOS,
1984. 42P. (LALP-84-014)
TUCKER, EVA F. (WX-4)
DOBRATZ, BRIGITTA (M-1)
- 26-7
IMPLICATIONS OF REDUCED NATO NUCLEAR
STOCKPILES.
LOS ALAMOS,
1984. 35P. (LA-10221-MS)
SANDOVAL, RICHARD R. (S-6)
- 26-8
LASER-BASED DATA ACQUISITION IN GAS
CENTRIFUGE ENVIRONMENTS USING OPTICAL
FIBERS.
FIBER OPTICS IN ADVERSE ENVIRONMENTS,
2ND, 1984, SAN DIEGO. PROC., P.64-8.
SPIE, 1984. (621.369/F443OP/1984)
CATES, MICHAEL REID
ALLISON, S. W.
MARSHALL, B. R.
DAVIES, T. J.
FRANKS, L. A.
NELSON, M. A.
NOEL, BRUCE W. (WX-10)
- 26-9
LINEAR ALGEBRAIC APPROACH TO
ELECTRON-MOLECULE COLLISIONS.
UNITED STATES-JAPAN SEMINAR ON
ELECTRON-MOLECULE COLLISIONS AND
PHOTOIONIZATION PROCESSES, 1ST, 1982,
PASADENA. PROC., P.203-10. VERLAG
CHEMIE INTL., 1983.
(539/U58EL/1ST/1982)
SCHNEIDER, BARRY I. (T-12)
COLLINS, LEE A. (T-4)
- 26-10
LOS ALAMOS NATIONAL LABORATORY'S
EDUCATIONAL OUTREACH PROGRAM.
TRANS. AM. NUCL. SOC.,
V.46, P.30-2. 1984.
SANDOVAL, ABAD ELI (IS-DO)
BERG, DONNA (IS-4)
- 26-11
PREPARED STATEMENT OF JOHN E HANSON,
PROGRAM MANAGER, SPACE AND MILITARY
REACTOR PROGRAM, LOS ALAMOS NATIONAL
LABORATORY.
NUCLEAR FISSION R&D AND WASTE
MANAGEMENT, HEARINGS BEFORE THE ...
COMMITTEE ON SCIENCE & TECHNOLOGY
U.S. HOUSE ... 98TH CONGRESS ...
1983, WASHINGTON. PROC., P.708-17.
GPO, 1984. (328/C98-1/83-20/V.4)
HANSON, JOHN E. (Q-D0)
- 26-12
PUBLICATIONS OF LOS ALAMOS RESEARCH
1983.
LOS ALAMOS,
1984. 182P. (LA-10155-MS)
SHERIDAN, CONNIE J. (IS-4)
MC CLARY, WILMA J. (IS-4)
RICH, JEANETTE A. (IS-4)
RODRIGUEZ, LA VERNE L. (IS-4)
- 26-13
RARE GAS HALOGEN EXCIMERS.
EXCIMER LASERS, CH.K. RHODES, ED.,
P.87-137. SPRINGER-VERLAG, 1984.
(621.366/E96LA/1984)
BRAU, CHARLES A. (AT-DO)
- 26-14
REMARKS OF MICHAEL E. BERGER, DEPUTY
ASSOCIATE DIRECTOR, LOS ALAMOS NATIONAL
LABORATORY BEFORE THE SUBCOMMITTEE ON
ENERGY DEVELOPMENT AND APPLICATIONS AND
ENERGY RESEARCH AND PRODUCTION OF THE
HOUSE SCIENCE AND TECHNOLOGY COMMITTEE.
INTEGRITY OF ELECTRIC POWER SYSTEMS
HEARING BEFORE THE ... U.S. HOUSE,
... 97TH CONGRESS ..., 1982,
WASHINGTON. PROC., P.21-30. GPO,
1983. (326/C97-2/82-79)
BERGER, MICHAEL E. (EP/AES)
- 26-15
RESPONSES TO QUESTIONS FROM THE HOUSE
SCIENCE & TECHNOLOGY COMMITTEE FOLLOWING
TESTIMONY OF MICHAEL E. BERGER BEFORE
SUBCOMMITTEE ON ENERGY DEVELOPMENT AND
APPLICATIONS AND SUBCOMMITTEE ON ENERGY
RESEARCH AND PRODUCTION US HOUSE OF
REPRESENTATIVES DECEMBER 9, 1982.
INTEGRITY OF ELECTRIC POWER SYSTEMS
HEARING BEFORE THE ... U.S. HOUSE,
... 97TH CONGRESS ..., 1982,
WASHINGTON. PROC., P.113-21. GPO,
1983. (326/C97-2/82-79)
BERGER, MICHAEL E. (EP/AES)
- 26-16
STATEMENT OF DR. ROBERT N. THORN, LOS
ALAMOS NATIONAL LABORATORY.
NATIONAL DEFENSE PROGRAMS
AUTHORIZATION HEARING BEFORE THE ...
COMMITTEE ON ARMED SERVICES U.S.
SENATE ... 98TH CONGRESS ... 1983.
WASHINGTON. PROC., P.80, 91-3. GPO,
1983. (328/C98-1/83-75)
THORN, ROBERT N. (DIR-O)

26-17

STATEMENT OF JIMMY MCCLARY, DIVISION
LEADER FOR OPERATIONAL SECURITY AND
SAFEGUARDS DIVISION, LOS ALAMOS NATIONAL
LABORATORY, LOS ALAMOS, N. MEX.,
ACCOMPANIED BY DOTTY CAMILLO, GROUP
LEADER, COMMUNICATIONS AND
TELECOMMUNICATIONS GROUP, LOS ALAMOS
NATIONAL LABORATORY, NEW MEXICO.
COMPUTER AND COMMUNICATIONS SECURITY
AND PRIVACY, HEARINGS BEFORE THE ...
U.S. HOUSE ... 98TH CONGRESS ...
1983, WASHINGTON. PROC., P.34-53.
GPO, 1984. (328/C98-1/83-128)
MCCLARY, JIMMY F. (IT-3)
CAMILLO, DOROTHY E. (OS-4)

26-18

STATEMENT OF JOHN E. HANSON, PROGRAM
MANAGER FOR SPACE AND MILITARY REACTOR
PROGRAMS, LOS ALAMOS NATIONAL
LABORATORY. NUCLEAR FISSION R&D AND WASTE
MANAGEMENT, HEARINGS BEFORE THE ...
COMMITTEE ON SCIENCE & TECHNOLOGY
U.S. HOUSE ... 98TH CONGRESS ...
1983, WASHINGTON. PROC., P.705-7.
GPO, 1984. (328/C98-1/83-20/V.4)
HANSON, JOHN E. (Q-D0)

26-19

STATEMENTS OF ... DR. JAMES M. WILLIAMS,
ASSISTANT DIRECTOR FOR PLANNING AND
ANALYSIS, LOS ALAMOS NATIONAL
LABORATORY, LOS ALAMOS, N. MEX.; ...
JOINT INDUSTRY/UNIVERSITY COOPERATION
WITH FEDERALLY SUPPORTED RESEARCH
FACILITIES, HEARING BEFORE THE ...
U.S. HOUSE ... 98TH CONGRESS, ...
1983, WASHINGTON. PROC., P.17-30.
GPO, 1983. (328/C98-1/83-43)
WILLIAMS, JAMES M. (ADPA)

26-20

TOKAMAK REACTOR STARTUP POWER.
SYMPOSIUM ON FUSION ENGINEERING,
10TH, 1983, PHILADELPHIA. PROC.,
ORNL, 1983.
(621.484/S989FUA/10TH/1983)
WELDON, DAVID M. (CTR-9)
MURRAY, JOHN G.

26-21

TYPICAL LOS ALAMOS NATIONAL LABORATORY
UNDERGROUND NUCLEAR TEST.
LOS ALAMOS,
1984. 5P. (LALP-84-047)
WOLFF, WALTER P. (NSP/TO)

27. GEOTHERMAL ENERGY

27-1
ECONOMICS OF A CONCEPTUAL 75 MW HOT DRY
ROCK GEOTHERMAL ELECTRIC POWER STATION.
TIC,
1984. 25P. MN (LA-UR-83-2258)
MURPHY, HUGH D. (ESS-4)
DRAKE, ROBERT H. (S-2)
TESTER, JEFFERSON W. (ESS-4)
ZYVOLOSKI, GEORGE A. (ESS-4)

27-2
GEOTHERMAL PUMPING SYSTEMS.
TIC,
1983. 17P. MN (LA-UR-83-3071)
HANOLD, ROBERT J. (ESS-DOT)

27-3
TWO - PHASE FLOW STUDIES.
TIC,
1983. 18P. MN (LA-UR-83-3072)
HANOLD, ROBERT J. (ESS-DOT)

28. HEALTH AND SAFETY

- 28-1
ACCEPTANCE - TESTING PROCEDURES FOR AIR - LINE SUPPLIED - AIR SUITS.
LOS ALAMOS.
1984. 23P. (LA-10156-MS)
BRADLEY, ORVIL D. (HSE-5)
- 28-2
APPARATUS FOR MONITORING TRITIUM IN TRITIUM CONTAMINATING ENVIRONMENTS USING A MODIFIED KANNE CHAMBER.
PATENTED
APR. 24, 1984, FILED 1981.
(U.S. PATENT-4,445,037)
ANDERSON, DAVID F. (H-1)
- 28-3
BRAIN TUMORS AT A NUCLEAR FACILITY.
J. OCCUP. MED.,
V.26, P.721-4. 1984.
REYES, MICHELE (HSE-14)
WILKINSON, GREGG S. (HSE-14)
TIETJEN, GARY L. (S-1)
VOELZ, GEORGE L. (HSE-DO)
ACQUAVELLA, JOHN F.
BISTLINE, ROBERT
- 28-4
CHEMICAL PERMEATION - A SUMMARY REPORT OF RECENT NIOSH-DIRECTED STUDIES AT THE LOS ALAMOS NATIONAL LABORATORY.
AM. IND. HYG. ASSOC. J.,
V.45, P.B10-2. 1984
STAMPFER, JOSEPH F., JR. (HSE-5)
MC LEOD, MIA J. (HSE-5)
BETTS, M. R. (HSE-5)
MARTINEZ, AARON M. (HSE-5)
BERARDINELLI, S. P.
- 28-5
COMPARATIVE STUDY OF HEPA FILTER EFFICIENCIES WHEN CHALLENGED WITH THERMAL- AND AIR-JET-GENERATED DI-2-ETHYLHEXYL SEBECATE, DI-2-ETHYLHEXYL PHTHALATE, AND SODIUM CHLORIDE.
LOS ALAMOS.
1984. 64P. (LA-09985-MS)
KERSCHNER, HARRISON F. III
ETTINGER, HARRY J. (HSE-5)
DE FIELD, JAMES D. (HSE-5)
BECKMAN, RICHARD J. (S-1)
- 28-6
COMPARISON OF TWO LUNG CLEARANCE MODELS BASED ON THE DISSOLUTION RATES OF OXIDIZED DEPLETED URANIUM.
LOS ALAMOS,
1984. 67P. (LA-10214-T)
CRIST, KEVIN C.
- 28-7
COMPUTER BASED PLUTONIUM WOUND MONITOR.
IEEE TRANS. NUCL. SCI.,
V.NS-31, P.679-80. 1984.
WAECHTER, DAVID A. (E-7)
BRAKE, RICHARD JOSEPH (H-4)
VASILIK, DENNIS G. (H-4)
ERKKILA, BRUCE H. (H-4)
- 28-8
COMPUTERIZED PLUTONIUM WOUND ANALYSIS SYSTEM.
TIC,
1983. 5P. MN (LA-UR-83-2958)
WAECHTER, DAVID A. (E-1)
BRAKE, RICHARD JOSEPH (H-4)
VASILIK, DENNIS G. (HSE-1)
ERKKILA, BRUCE H. (IT-1)
- 28-9
ENVIRONMENTAL SURVEILLANCE AT LOS ALAMOS DURING 1983.
LOS ALAMOS,
1984. 180P. (LA-10100-ENV)
ENVIRONMENTAL SURVEILLANCE GROUP (H-8)
- 28-10
ESTIMATING THE RISKS OF CANCER MORTALITY AND GENETIC DEFECTS RESULTING FROM EXPOSURES TO LOW LEVELS OF IONIZING RADIATION.
LOS ALAMOS,
1984. 113P. (LA-09893-MS)
BUHL, THOMAS E. (H-8)
HANSEN, WAYNE R. (H-8)
- 28-11
EVALUATION OF AEROSOL SPECTROMETERS FOR QUALITY ASSURANCE FILTER PENETRATION MEASUREMENTS.
AEROSOLS CONFERENCE, 1984.
MINNEAPOLIS, PROC., P.547-50.
ELSEVIER, 1984.
SCRIPSICK, RONALD C. (HSE-5)
SODERHOLM, SIDNEY C. (HSE-5)
TILLERY, MARVIN I. (HSE-5)
- 28-12
EVALUATION OF SPURIOUS READINGS IN LOS ALAMOS PERSONNEL TL DOSIMETERS.
LOS ALAMOS,
1984, 13P. (LA-10140-MS)
EISEN, YOSEF Y. (HSE-1)
LITTLEJOHN, GEORGE J. (HSE-1)
CORTEZ, JOSEPH R. (HSE-1)
- 28-13
GENOTOXICITY OF ALPHA PARTICLES IN HUMAN EMBRYONIC SKIN FIBROBLASTS.
RADIAT. RES.,
V.100, P.321-6. 1984.
CHEN, DAVID JEN-CHI (LS-3)
STRNISTE, GARY F. (LS-3)
TOKITA, NOBUHIKO (LS-1)
- 28-14
GUIDELINES FOR THE SELECTION OF CHEMICAL PROTECTIVE CLOTHING.
GUIDELINES FOR THE SELECTION OF CHEMICAL PROTECTIVE CLOTHING,
ARTHUR D. LITTLE, INC. 76P.
1983 (620.86/G946SE)/V.1)
SCHWOPE, ARTHUR D.
COSTAS, P. P.
JACKSON, JAMES O. (HSE-5)
WEITZMAN, D. J.
- 28-15
GUIDELINES FOR THE SELECTION OF CHEMICAL PROTECTIVE CLOTHING.
GUIDELINES FOR THE SELECTION OF CHEMICAL PROTECTIVE CLOTHING,
ARTHUR D. LITTLE, INC., 41P.
1983. (620.86/G946SE/V.2)
SCHWOPE, ARTHUR D.
COSTAS, P. P.
JACKSON, JAMES O. (HSE-5)
WEITZMAN, D. J.
- 28-16
HUMTRN - DOCUMENTATION AND VERIFICATION FOR AN ICRP-BASED AGE- AND SEX-SPECIFIC HUMAN SIMULATION MODEL FOR RADIONUCLIDE DOSE ASSESSMENT.
LOS ALAMOS,
1984. 83P. (LA-09994-MS)
GALLEGOS, ANTHONY F. (H-8)
WENZEL, WALTER J. (HSE-8)
- 28-17
IMAGING RADIATION DETECTOR WITH GAIN.
PATENTED
OCT. 23, 1984, FILED 1982.
(U.S. PATENT-4,479,059)
MORRIS, CHRISTOPHER L. (MP-10)
IDZOREK, G. C. (MP-10)
ATENCIO, L. G. (MP-10)
- 28-18
IN - PLACE TESTING OF MULTIPLE STAGE FILTER SYSTEMS WITHOUT DISRUPTION OF PLANT OPERATIONS IN THE PLUTONIUM FACILITY AT LOS ALAMOS.
TIC,
1984. 12P. MN (LA-UR-84-2319)
ORTIZ, JOHN P. (HSE-5)

28-19
IN VIVO ASSESSMENT OF LUNG BURDENS AT
THE LOS ALAMOS NATIONAL LABORATORY.

LOS ALAMOS,
1984. 25P. (LA-09979-MS)
VASILIK, DENNIS G. (HSE-1)
AIKIN, IRENE C. (HSE-1)
COOP, K. L. (Q-2)
UMBARGER, C. JOHN (IT-1)

28-20
LITERATURE REVIEW ON AEROSOL SAMPLING
DEVICES FOR RESPIRATORY FIELD STUDIES.

LOS ALAMOS.
1984. 56P. (LA-09977-MS)
SUTCLIFFE, CAROL R. (HSE-5)

28-21
OCCUPATIONAL HEALTH AND ENVIRONMENTAL
RESEARCH PROGRAM OF THE HEALTH DIVISION.
1982.

LOS ALAMOS,
1984. 110P. (LA-09958-PR)
VOELZ, GEORGE L. (HSE-DO)

28-22
PASSIVE DOSIMETERS FOR RF AND
MICROWAVE FIELDS.

REV. SCI. INSTRUM.,
V.55, P.424-6. 1984.
DOSS, JAMES D. (MP-3)

28-23
PLUTONIUM PARTITIONING AMONG INTERNAL
ORGANS.

HEALTH PHYS.,
V.46, P.839-43. 1984.
THOMAS, ROBERT G. (H-DO)
HEALY, JOHN W. (H-DO)
MC INROY, JAMES F. (H-5)

28-24
PORTABLE BETA SPECTROMETER - DOSIMETER.
TIC.

1983. 6P. MN (LA-UR-83-2959)
ERKKILA, BRUCE H. (IT-1)
WAECHTER, DAVID A. (E-1)
BRAKE, RICHARD JOSEPH (H-4)

28-25
QUALITY CONTROL ACTIVITIES IN SUPPORT OF
THE PLUTONIUM WORKERS STUDY.
ASSESSMENT OF CODING CONSISTENCY FOR
DATA COLLECTED AT ROCKY FLATS.

LOS ALAMOS,
1984. 8P. (LA-09462-MS)
REYES, MICHELE (H-14)
WILKINSON, GREGG S. (H-14)
ACQUAVELLA, JOHN F. (HSE-14)

28-26
QUALITY CONTROL PROCEDURES FOR
COMPUTERIZING EMPLOYEE DATA FOR A STUDY
OF MOARTALITY AMONG WORKERS AT THE
PANTEX PLANT.

LOS ALAMOS,
1984. 8P. (LA-10279-MS)
WIGGS, LAURIE D. (HSE-14)
MASTERSON, JEANNENE M. (M-4)
ACQUAVELLA, JOHN F.

28-27
THERMALLY STIMULATED LUMINESCENCE IN
BIOCHEMICAL SYSTEMS.

RADIAT. PROT. DOSIM.,
V.8, P.117-38. 1984.
COOKE, D. W. (MP-3)

28-28
URANIUM INTERNAL EXPOSURE EVALUATION
BASED ON URINE ASSAY DATA.

LOS ALAMOS,
1984. 24P. (LA-10246-MS)
LAWRENCE, JAMES N. P. (H-1)

29. HEATING AND COOLING—RESIDENTIAL AND COMMERCIAL APPLICATIONS

- 29-1
ANALYSIS OF VALIDATION DATA SETS IN THE CLASS A PERFORMANCE VALUATION PROGRAM.
TIC,
1983. 7P. MN (LA-UR-83-1968)
HUNN, BRUCE D. (Q-11)
- 29-2
CONSERVATION AND SOLAR GUIDELINES.
TIC,
1983. 7P. MN (LA-UR-83-1871)
BALCOMB, J. DOUGLAS (Q-DO)
- 29-3
CONVECTIVE HEAT TRANSFER INSIDE PASSIVE SOLAR BUILDINGS.
TIC,
1983. 8P. MN LA-UR-83-2545)
JONES, ROBERT W. (Q-11)
BALCOMB, J. DOUGLAS (Q-DO)
YAMAGUCHI, KENJIRO
- 29-4
COOLING - LOAD IMPLICATIONS FOR RESIDENTIAL PASSIVE SOLAR HEATING SYSTEMS.
TIC,
1983. 8P. MN (LA-UR-83-2647)
JONES, ROBERT W. (Q-11)
MC FARLAND, ROBERT D. (Q-11)
- 29-5
HEAT DISTRIBUTION BY NATURAL CONVECTION.
TIC,
1983. 7P. MN (LA-UR-83-1872)
BALCOMB, J. DOUGLAS (Q-DO)
YAMAGUCHI, KENJIRO
- 29-6
INCLUDING THE EFFECT OF CONTROL STRATEGY IN SOLAR LOAD RATIO CALCULATIONS.
TIC,
1984. 6P. MN (LA-UR-84-1338)
WRAY, WILLIAM O. (Q-13)
KOSIEWICZ, CLAUDIA E. (Q-13)
- 29-7
MASS AND FANS IN ATTACHED SUNSPACES. ENERGY CONSERVING GREENHOUSES, 3RD, 1982, HYANNIS. PROC., P.81-90. AMERICAN SOLAR ENERGY SOCIETY, 1983. (690.892/E56CO/1982)
ALSO PUBLISHED IN:
TIC,
1982. 11P. MN (LA-UR-83-0199)
JONES, ROBERT W. (Q-11)
MC FARLAND, ROBERT D. (Q-11)
LAZARUS, GLORIA S. (Q-11)
- 29-8
MATERIALS ASPECTS OF SOLAR ENERGY USE IN BUILDINGS.
TIC,
1984. 9P. MN (LA-UR-84-1428)
MOORE, STANLEY W. (Q-13)
MC FARLAND, ROBERT D. (Q-11)
- 29-9
PASSIVE AND LOW ENERGY RESEARCH AND DEVELOPMENT - A GLOBAL VIEW.
TIC,
1984. 11P. MN (LA-UR-84-1507)
BALCOMB, J. DOUGLAS (Q-13)
- 29-10
PASSIVE SOLAR HEATING ANALYSIS. A NEW ASHRAE MANUAL.
TIC,
1983. 10P. MN (LA-UR-83-1209)
BALCOMB, J. DOUGLAS (Q-DO)
- 29-11
PASSIVE SOLAR HEATING AND ANALYSIS.
TIC,
1984. 21P. MN (LA-UR-84-1294)
JONES, ROBERT W. (Q-11)
- 29-12
PASSIVE SOLAR RESEARCH AND PRACTICE. ENERGY BUILD., V.7, P.281-95. 1984.
ALSO PUBLISHED IN:
TIC,
1983. 17P. MN (LA-UR-83-0990)
BALCOMB, J. DOUGLAS (Q-DO)
- 29-13
PREDICTION OF INTERNAL TEMPERATURE SWINGS IN DIRECT GAIN PASSIVE SOLAR BUILDINGS.
TIC,
1983. 7P. MN (LA-UR-83-2246)
BALCOMB, J. DOUGLAS (Q-DO)
- 29-14
PROGRESS ON SOLAR ABSORBER SELECTIVE PAINT RESEARCH.
OPTICAL MATERIALS TECHNOLOGY FOR ENERGY EFFICIENCY AND SOLAR ENERGY CONVERSION III, 1984, SAN DIEGO. PROC., P.68-76. SPIE, 1984. (621.47/O62MA/1984)
MOORE, STANLEY W. (Q-13)
- 29-15
SLR METHODS FOR ATTACHED SUNSPACES. ENERGY CONSERVING GREENHOUSES, 3RD, 1982, HYANNIS, PROC., P.163-72. AMERICAN SOLAR ENERGY SOCIETY, 1983. (690.892/E56CO/1982)
ALSO PUBLISHED IN:
TIC,
1982. 11P. MN (LA-UR-82-3634)
JONES, ROBERT W. (Q-11)
MC FARLAND, ROBERT D. (Q-11)
- 29-16
STUDY OF THERMOSIPHON AND RADIANT PANEL PASSIVE HEATING SYSTEMS FOR METAL BUILDINGS.
TIC,
1983. 5P. MN (LA-UR-83-1967)
BIEHL, FRANZ A. (Q-11)
SCHNURR, NORMAN M. (WX-4)
WRAY, WILLIAM O. (Q-11)
- 29-17
VAPOR - PHASE HEAT - TRANSPORT SYSTEM.
TIC,
1983. 7P. MN (LA-UR-83-2646)
HEDSTROM, JAMES C. (Q-11)

30. INERTIAL CONFINEMENT FUSION

30-1
"FIRST STEP" BLANKET STRUCTURE AND FUEL ASSEMBLY DESIGN.

TRANS. AM. NUCL. SOC.,
V.46, P.242-3. 1984.

ALSO PUBLISHED IN:

TIC,

1984. 6P. MN (LA-UR-84-0169)

SAYLOR, WILLIAM W. (S-4)

PENDERGRASS, JOHN H. (S-4)

THAYER, GARY R. (S-4)

30-2
"FIRST STEP" TOWARD ICF COMMERCIALIZATION.

TRANS. AM. NUCL. SOC.,
V.46, P.241-2. 1984.

ALSO PUBLISHED IN:

TIC,

1984. 6P. MN (LA-UR-84-0168)

SAYLOR, WILLIAM W. (S-4)

PENDERGRASS, JOHN H. (S-4)

DUDZIAK, DONALD J. (S-4)

30-3
AEM/STEM ANALYSIS OF VAPOR DEPOSITED MULTILAYERED LASER TARGETS.

MICROBEAM ANALYSIS SOCIETY CONFERENCE
18TH, 1983, PHOENIX. PROC., P.171-4.

SAN FRANCISCO PRESS, 1983.

ALSO PUBLISHED IN:

TIC,

1983. 16P. MN (LA-UR-83-0819)

JOHNSON, KAYE ALLAN (MST-11)

STAUDHAMMER, KARL P. (MST-5)

REEVES, GARY ALAN (MST-6)

VEESER, LYNN R. (P-14)

30-4
APPLICATION FOR SURVEYING TECHNOLOGY FOR THE ALIGNMENT OF LARGE OPTICAL SYSTEMS.

TIC,

1984. 11P. MN (LA-UR-84-0034)

BAUKE, WALTER (P-5)

30-5
CONVECTIVE MECHANISM FOR INHIBITION OF HEAT CONDUCTION IN LASER PRODUCED PLASMAS.

TIC,

1984. 7P. MN (LA-UR-84-1154)

LEE, PETER H. Y. (P-1)

WILLI, OSWALD (P-1)

TRAINOR, ROBERT JAMES (P-1)

30-6
CONVECTIVE TRANSPORT IN LASER TARGET PLASMAS.

TIC,

1982. 17P. MN (LA-UR-83-0586)

BRACKBILL, JEREMIAH U. (X-1)

COLOMBANT, D.

GRANDJOUAN, N.

30-7
DETERMINATION OF LASER INTENSITY AND HOT-ELECTRON TEMPERATURE FROM FASTEST ION VELOCITY MEASUREMENT ON LASER-PRODUCED PLASMA.

PHYS. FLUIDS,

V.27, P.296-301. 1984.

TAN, TAI HO (P-4)

MC CALL, GENE H. (X-DO)

WILLIAMS, ARTHUR H. (P-4)

30-8
DEVELOPMENT OF CARBON DIOXIDE AND KRYPTON FLUORINE GAS LASERS AS DRIVERS FOR INERTIAL CONFINEMENT FUSION.

TIC,

1983. 16P. MN (LA-UR-83-3470)

ROCKWOOD, STEPHEN D. (NSP/IF)

30-9
EVIDENCE FOR A HOT ELECTRON FLUX LIMIT IN LASER - PRODUCED PLASMA EXPERIMENTS.

TIC,

1983. 11P. MN (LA-UR-83-2568)

MC CALL, GENE H. (X-DO)

30-10
EXCIMER LASERS FOR INERTIAL CONFINEMENT FUSION.

TRANS. AM. NUCL. SOC.,

V.46, P.187-8. 1984.

SINGER, SIDNEY (P-DO)

30-11
HEAVY ION FUSION PHYSICS ISSUES.

TIC,

1984. 13P. MN (LA-UR-84-0606)

BANGERTER, ROGER O. (NSP/IF)

30-12
INERTIAL FUSION COMMERCIAL-APPLICATIONS DRIVER COST ISSUES AND (SOME) ANSWERS.

TRANS. AM. NUCL. SOC.,

V.46, P.192-4. 1984.

PENDERGRASS, JOHN H. (S-4)

30-13
LASER - PLASMA INTERACTION AT 10.6 MICRONS.

TIC,

1983. 36P. MN (LA-UR-83-2840)

JONES, ROGER D. (X-1)

KINDEL, JOSEPH M. (X-1)

30-14
LASER DAMAGE RESULTS AND ANALYSES FOR ULTRAVIOLET REFLECTORS UNDER MULTIPLE-SHOT IRRADIATION.

LASER INDUCED DAMAGE IN OPTICAL MATERIALS, 13TH, 1981, BOULDER.

PROC., P.350-62. NBS, 1983.

(620.112/S9890M/13TH/1981)

FOLTYN, STEPHEN R. (AP-2)

NEWNAM, BRIAN E. (AP-2)

JOLIN, L. J. (AP-2)

30-15
MEASUREMENT AND ANALYSIS OF NEAR-CLASSICAL THERMAL TRANSPORT IN ONE-MICRON LASER-IRRADIATED SPHERICAL PLASMAS.

PHYS. REV. LETT.,

V.53, P.2563-6. 1984.

HAUER, ALLAN (P-4)

MEAD, W. C. (X-1)

WILLI, OSWALD (P-1)

KILKENNY, J. D.

BRADLEY, DAVID

TABATABAEI, S. D.

HOOVER, C.

30-16
OPERATIONAL PERFORMANCE OF THE ANTARES ALIGNMENT SYSTEM.

OPTICAL ALIGNMENT II, 1984,

ARLINGTON. PROC., P.113-9. SPIE.

1984. (621.36/O62A/1984)

BENDER, STEVEN C. (P-5)

APPERT, QUENTIN D. (P-5)

30-17
OPTICAL TOOLING FOR THE FUNCTIONAL ALIGNMENT OF TILTED AND DECENTERED OPTICAL TRAINS.

OPTICAL ALIGNMENT II, 1984,

ARLINGTON. PROC., P.104-12. SPIE,

1984. (621.36/O62A/1984)

BAUKE, WALTER (P-5)

CROSS, EUGENE W. (P-5)

30-18
PLASMA SIMULATION STUDIES OF ELECTRON ACCELERATION FOR BEAT WAVE AND SINGLE FREQUENCY - LASER HEATING SCHEMES.

TIC,

1984. 5P. MN (LA-UR-84-1063)

KINDEL, JOSEPH M. (X-1)

FORSLUND, DAVID W. (X-1)

MORI, WARREN B. (X-1)

JOSHI, C

DAWSON, J. M.

30-19

**SUPRATHERMAL ELECTRON GENERATION
TRANSPORT AND DEPOSITION IN CARBON
DIOXIDE LASER IRRADIATED TARGETS.**

**LASER INTERACTION AND RELATED
PLASMA PHENOMENA, H. HORA AND
G.H. MILEY, EDS., P.479-91. PLENUM,
1984. (535/L343IN/V.6)**

HAUER, ALLAN (P-4)
GOLDMAN, ROBERT S. (X-1)
KRISTAL, RICHARD (P-4)
YATES, MARY ANNE (P-4)
MUELLER, M.
BEGAY, FRED (P-4)
VAN HULSTEYN, DAVID B. (P-14)
MITCHELL, KENNETH B. (P-4)
KEPHART, JOHN F. (P-4)
OONA, HENN (P-7)
STOVER, ELMER K. (X-1)
BRACKBILL, JEREMIAH U. (X-1)
FORSLUND, DAVID W. (X-1)

30-20

**TRITIUM AND PLUTONIUM PRODUCTION AS A
STEP TOWARD ICF COMMERCIALIZATION.**

**TIC,
1983. 6P. MN (LA-UR-83-3229)
PENDERGRASS, JOHN H. (S-4)
DUDZIAK, DONALD J. (S-4)**

31. INSTRUMENTS

31-1
APPARATUS AND METHOD FOR DOWNHOLE
INJECTION OF RADIOACTIVE TRACER.

PATENTED
DEC. 20, 1983, FILED 1980.
(U.S.PATENT-4,421,982)

POTTER, ROBERT M. (ESS-4)
ARCHULETA, JACOBO R. (G-4)
FINK, CONRAD F. (G-4)

31-2
APPARATUS FOR RECOVERING GASEOUS
HYDROCARBONS FROM HYDROCARBON-
CONTAINING SOLID HYDRATES.

PATENTED
JAN. 10, 1984, FILED 1982.
(U.S.PATENT-4,424,858)

ELLIOTT, GUY R. B. (G-9)
BARRACLOUGH, BRUCE L. (CMB-1)
VANDERBORGH, NICHOLAS E. (E-11)

31-3
AUTOMATIC VOLTAGE IMBALANCE
DETECTOR.

PATENTED
JAN. 3, 1984, FILED 1981.
(U.S.PATENT-4,424,491)

BOBBETT, RONALD E. (E-11)
MC CORMICK, J. BYRON (E-DO)
KERWIN, WILLIAM J.

31-4
CHANNEL MULTIPLIER COMPATIBLE MATERIALS
AND LIFETIME TESTS.

REV. SCI. INSTRUM.,
V.55, P.463-7. 1984.

MC COMAS, DAVID J. (ESS-8)
BAME, SAMUEL J., JR. (ESS-8)

31-5
CHARACTERIZATION OF A FAST, SENSITIVE
GAMMA DETECTOR UTILIZING MICROCHANNEL
PLATE PHOTOMULTIPLIER.

IEEE TRANS. NUCL. SCI.,
V.NS-31, P.387-9. 1984.

KRUSE, HERALD W. (P-14)
HOCKER, L. P.

31-6
CHOOSING AN IMAGING SYSTEM.

TIC,
1983. 5P. MN (LA-UR-83-2312)
ABSTRACT PUBLISHED IN:
TRANS. AM. NUCL. SOC.,
V.45, P.252-3. 1983.

FENIMORE, EDWARD E. (ESS-9)

31-7
CONCEPTUAL DESIGN AND ANALYSIS OF
HIGH SPEED ELECTRONIC IMAGING.

LOS ALAMOS,
1984. 47P. (LA-10072-MS)
BROWN, R. R. (E-8)
PARKER, JOSEPH R. (P-5)

31-8
DETERMINATION OF THE ABSOLUTE EFFICIENCY
OF AN ORGANIC SCINTILLATOR FOR NEUTRONS
WITH ENERGIES BETWEEN 0.5 AND 800 MEV.

NUCL. INSTRUM. METHODS PHYS. RES.,
V.227, P.565-70. 1984.

HOWE, S. D. (X-2)
LISOWSKI, PAUL W. (P-3)
RUSSELL, GARY J. (P-8)
KING, N. S. P. (P-15)
DONNERT, H. J. (MP-DO)

31-9
DEVELOPMENT OF PHOTOCONDUCTIVE POWER
SWITCH TECHNOLOGY - JULY 1983
MARCH 1984.

LOS ALAMOS,
1984. 19P. (LA-10165-PR)
NUNNALLY, WILLIAM C. (E-11)

31-10
ENERGY RESPONSE AND DOSE - RATE
CALIBRATION OF A GEIGER-MUELLER
GAMMA - RAY DETECTOR.

TIC,
1984. 8P. MN (LA-UR-83-3398)
PLASSMANN, EUGENE A. (Q-2)
PEDERSON, RAYMOND A. (Q-2)
MOSS, CALVIN E. (Q-2)

31-11
FABRY - PEROT INTERFEROMETRY USING AN
IMAGE - INTENSIFIED ROTATING - MIRROR
STREAK CAMERA.

HIGH SPEED PHOTOGRAPHY, VIDEOGRAPHY,
AND PHOTONICS, 1983, SAN DIEGO.
PROC., P.186-91. SPIE, 1983.
(778.37/H638SP/1983)
SEITZ, WENDELL LEE (M-1)
STACY, HOWARD L. (M-1)

31-12
FAST PARALLEL ENCODING SCHEME FOR THE
ANGER CAMERA.

POSITION-SENSITIVE DETECTION OF
THERMAL NEUTRONS, P. CONVERT & J.B.
FORSYTH, ED., P.188-91. ACADEMIC
PRESS, 1983. (639.77/P855SE/1982)
SEEGER, PHILIP A. (P-8)

31-13
FAST PARALLEL ENCODING SCHEME FOR THE
ANGER CAMERA.

IEEE TRANS. NUCL. SCI.,
V.NS-31, P.274-80. 1984.
SEEGER, PHILIP A. (P-8)

31-14
FIBER OPTIC SENSOR APPLICATIONS IN
FIELD TESTING.

TIC,
1984. 23P. MN (LA-UR-84-1395)
PEREA, JACOB A. (WX-10)

31-15
GAMMA-RAY TO CERENKOV-LIGHT CONVERSION
EFFICIENCY FOR PURE-SILICA-CORE
OPTICAL FIBERS.

FIBER OPTICS IN ADVERSE ENVIRONMENTS
II, 1984, SAN DIEGO. PROC., P.10-7.
SPIE, 1984. (621.369/F443OP/1984)

PRUETT, B. L.
PETERSON, R. T.
SMITH, D. E.
LOONEY, LARRY D. (P-14)
SHELTON, R. N. (AP-4)

31-16
GAS CERENKOV DETECTOR FOR MEASURING
16.7 MEV GAMMA RAYS FROM THE
D(TRITON, GAMMA) FIVE HELIUM REACTION.

LOS ALAMOS CONFERENCE ON OPTICS '83,
PROC., P. 256-60. SPIE, 1983.

(535/L879OP/1983)
ALSO PUBLISHED IN:

TIC,
1983. 6P. MN (LA-UR-83-1864)
BROLLEY, JOHN E., JR. (P-14)
LADISH, JOSEPH S. (P-14)
LYONS, PETER B. (P-14)
MACK, JOSEPH M., JR. (X-5)
TOEVS, J. W. (P-14)
YOUNG, CARLTON S. (P-14)
IVERSON, STEVEN G.
NASH, P. E.
ZAGARINO, P. A.
JENNINGS, LEROY
SENO, R. D.

31-17
HIGH - SPEED VIDEOGRAPHY COMBINED WITH
AN X - RAY IMAGE INTENSIFIER FOR DYNAMIC
RADIOGRAPHY.

HIGH SPEED PHOTOGRAPHY, VIDEOGRAPHY,
AND PHOTONICS, 1983, SAN DIEGO.
PROC., P.110-4. SPIE, 1983.

(778.37/H638SP/1983)
ALSO PUBLISHED IN:

TIC,
1983. 5P. MN (LA-UR-83-2399)
BRYANT, LAWRENCE E., JR. (WX-3)

31-18
HIGH - SPEED VIDEOGRAPHY FOR OPTICAL
AND X - RAY IMAGING.

TIC,
1983. 5P. MN (LALP-83-044)
BRYANT, LAWRENCE E., JR. (WX-3)

31-19
HIGH SPEED ELECTRONIC IMAGING
APPLICATION IN AEROBALLISTIC RESEARCH.
HIGH SPEED PHOTOGRAPHY, VIDEOGRAPHY,
AND PHOTONICS, 2ND, 1984, SAN DIEGO.
PROC., P.95-108. SPIE, 1984.
(778.37/H638SP/1984)

BROWN, R. R. (E-8)
PARKER, JOSEPH R. (P-5)

31-20
HIGH-RESOLUTION SIT TV TUBE FOR
SUBNANOSECOND IMAGE SHUTTERING.

LOS ALAMOS,
1984. 75P. (LA-09771-MS)
YATES, GEORGE J. (P-15)
VINE, BENJAMIN H.
AEBY, IAN
DUNBAR, DOUGLAS L. (P-14)
KING, N. S. P. (P-15)
JARAMILLO, STEVEN A. (P-15)
THAYER, NINA N.
NOEL, BRUCE W. (WX-10)

31-21
INTEGRATED PICOSECOND PHOTOCONDUCTORS
PRODUCED ON BULK SILICON SUBSTRATES.
BULK SILICON SUBSTRATES.

APPL. PHYS. LETT.,
V.45, P.404-5. 1984.
HAMMOND, ROBERT B. (E-11)
PAULTER, NICHOLAS G. (E-11)
WAGNER, RONALD S. (E-11)
EISENSTADT, W. R.

31-22
LECTURE 1 - INTRODUCTION TO POWER
CONDITIONING SYSTEMS.

TIC,
1980. 59P. MN (LA-UR-80-0515)
SARJEANT, WALTER J. (E-4)

31-23
LECTURE 2 - DC POWER SUPPLIES AND
HARD-TUBE POWER CONDITIONING SYSTEMS.

TIC,
1984. 98P. MN (LA-UR-80-0516)
SARJEANT, WALTER J. (E-4)

31-24
LOW - NOISE AMPLIFIER FOR RESOLVING THE
RIGHT-LEFT AMBIGUITY IN DRIFT
CHAMBERS.

NUCL. INSTRUM. METHODS PHYS. RES.,
V.226, P.405-10. 1984.
BROWN, DAVID (E-5)

31-25
MULTIPLE - INDEPENDENT DETECTOR
SYSTEM.

IEEE TRANS. NUCL. SCI.,
V.NS-31, P.160-1. 1984.
SEEGER, PHILIP A. (P-8)

31-26
NANOSECOND IMAGE SHUTTERING STUDIES AT
LOS ALAMOS NATIONAL LABORATORY.

TIC,
1983. 7P. MN (LA-UR-83-3042)
YATES, GEORGE J. (P-15)
KING, N. S. P. (P-15)
JARAMILLO, STEVEN A. (P-15)
NOEL, BRUCE W. (WX-10)
GOBBY, PETER L. (MST-6)
AEBY, IAN
DETCH, J. LEWIS, JR.

31-27
NEW GENERATION LOW POWER RADIATION
SURVEY INSTRUMENTS.

IEEE TRANS. NUCL. SCI.,
V.NS-31, P.655-8. 1984.
WAECHTER, DAVID A. (E-7)
BJARKE, GEORGE O. (H-1)
WOLF, MICHAEL ALLEN (H-4)
TRUJILLO, FAUSTIN (H-4)
UMBARGER, C. JOHN (H-4)

31-28
NEW GENERATION OF RADIACS - SMALL
COMPUTERIZED MULTIPURPOSE RADIATION
MONITORS.

TIC,
1982. 8P. MN (LA-UR-82-2980)
UMBARGER, C. JOHN (H-4)
BJARKE, GEORGE O. (H-1)
ERKKILA, BRUCE H. (H-4)
TRUJILLO, FAUSTIN (H-4)
WAECHTER, DAVID A. (E-7)
WOLF, MICHAEL ALLEN (H-4)

31-29
OBSERVED CIRCUIT LIMITS TO TIME
RESOLUTION IN CORRELATION MEASUREMENTS
WITH SILICON-ON-SAPPHIRE, GALLIUM
ARSENIC, AND INDIUM PHOSPHORUS
PICOSECOND PHOTOCONDUCTORS.

APPL. PHYS. LETT.,
V.45, P.289-91. 1984.
HAMMOND, ROBERT B. (E-11)
PAULTER, NICHOLAS G. (E-11)
WAGNER, RONALD S. (E-11)

31-30
OPTICAL CHARACTERIZATION OF
RADIATION - RESISTANT FIBERS.

FIBER OPTICS IN ADVERSE ENVIRONMENTS,
2ND, 1984, SAN DIEGO. PROC.,
P.22-8. SPIE, 1984.
(621.369/F443OP/1984)
SMILEY, V.
WHITCOMB, BRUCE M.
PERRASSINI, M.
WHITAKER, D.
FLURER, RANDY L.
COLBURN, CHRISTOPHER W.
LYONS, PETER B. (P-DO)
OGLE, J. W. (P-14)
LOONEY, LARRY D. (P-14)

31-31
OPTIMAL OBJECT AND EDGE LOCALIZATION
IN THE PRESENCE OF CORRELATED NOISE.

TIC,
1984. 10P. MN (LA-UR-84-0984)
HANSON, KENNETH M. (M-4)

31-32
PORTABLE BETA SPECTROMETER - DOSIMETER.

IEEE TRANS. NUCL. SCI.,
V.NS-31, P.661-3. 1984.
ERKKILA, BRUCE H. (H-4)
WAECHTER, DAVID A. (E-1)
BRAKE, RICHARD JOSEPH (HSE-1)

31-33
PORTABLE ELECTROCHEMICAL CELL
INTERROGATOR.

LOS ALAMOS,
1984. 7P. (LA-10274-MS)
DOSS, JAMES D. (MP-3)
MC CABE, CHARLES W. (MP-3)

31-34
PULSED FLUORESCENT X - RAY SYSTEM WITH
ON - LINE DIGITIZER AND DATA PROCESSOR.

LOS ALAMOS,
1984. 12P. (LA-10247)
BERZINS, GEORGE J. (ESS-9)
VALENCIA, JOHN E. (ESS-11)
GUTIERREZ, JOSE W. (ESS-11)
MC GIRT, A. FRANK (ESS-10)
MOORE, KURT R. (ESS-10)

31-35
PULSED SOFT X-RAY RESPONSE OF INDIUM
PHOSPHORUS-IRON PHOTOCONDUCTORS.

APPL. PHYS. LETT.,
V.44, P.1059-61. 1984.
KANIA, DON R. (P-14)
BARTLETT, ROGER J. (P-14)
WAGNER, RONALD S. (E-11)
HAMMOND, ROBERT B. (E-11)
PIANETTA, P.

31-36
RAILGUN CONDUCTOR HEATING FROM MULTIPLE
CURRENT PULSES.

LOS ALAMOS,
1984. 26P. (LA-10184-MS)
KERRISK, JERRY F. (WX-4)

31-37
SMART INSTRUMENTATION DEVELOPMENT AT
LOS ALAMOS.

TIC,
1984. 12P. MN (LA-UR-83-3409)
ERKKILA, BRUCE H. (IT-1)

31-38

SPECTROMETER FOR INELASTIC SCATTERING
USING NEUTRONS FROM 1 EV TO 186 EV.

NUCL. INSTRUM. METHODS,
V.221, P.393-407, 1984.

BRUGGER, ROBERT M. (P-8)
TAYLOR, ANDREW D. (P-8)
OLSEN, CLAYTON E. (MST-13)
GOLDSTONE, JOYCE A. (P-8)
SOPER, ALAN K. (P-8)

31-39

SURVEY OF FLASH X - RAY TECHNIQUES AND
APPLICATIONS.

HIGH SPEED PHOTOGRAPHY, VIDEOGRAPHY,
AND PHOTONICS, 1983, SAN DIEGO.

PROC. P.16-21. SPIE, 1983.

(778.37/H638SP/1983)

ALSO PUBLISHED IN:

TIC,

1983. 7P. MN (LA-UR-83-2400)

BRYANT, LAWRENCE E., JR. (WX-3)

LUCERO, J. P. (M-5)

31-40

TRANSIENT ATTENUATION IN OPTICAL
FIBERS.

FIBER OPTICS IN ADVERSE ENVIRONMENTS,

2ND, 1984, SAN DIEGO. PROC.,

P.209-16. SPIE, 1984.

(621.369/F443OP/1984)

HOPKINS, ANNA (P-14)

KELLY, R. E.

LOONEY, LARRY D. (P-14)

LYONS, PETER B. (P-14)

31-41

UNUSUAL CHEMICAL COMPOSITION FLUORESCERS
AND FILTERS FOR LOW-ENERGY X-RAY
DIAGNOSTICS - PART I. OXYGEN
COMPOSITIONS.

REV. SCI. INSTRUM.,
V.55, P.35-8, 1984.

JORGENSEN, BETTY S. (MST-6)

LIEPINS, RAIMOND (MST-6)

DAY, ROBERT H. (P-14)

31-42

USING PHOTOCONDUCTIVITY TO IMPROVE
IMAGE TUBE GATING SPEEDS.

TIC,

1983. 4P. MN (LA-UR-83-3060)

GOBBY, PETER L. (MST-6)

YATES, GEORGE J. (P-15)

JARAMILLO, STEVEN A. (P-15)

NOEL, BRUCE W. (WX-10)

AEBY, IAN

31-43

VIOLINIST - SOPHISTICATED PLUTONIUM
FIELD MONITOR.

IEEE TRANS. NUCL. SCI.,
V.NS-31, P.659-60, 1984.

UMBARGER, C. JOHN (H-4)

WOLF, MICHAEL ALLEN (H-4)

TRUJILLO, FAUSTIN (H-4)

31-44

100 MHZ FIBER OPTIC SINGLE TRANSIENT
GAMMA RAY DETECTION SYSTEM.

FIBER OPTICS — SHORT-HAUL AND
LONG-HAUL MEASUREMENTS AND
APPLICATIONS, 2ND, 1984, SAN DIEGO.

SPIE, 1984. (621.369/F443OPT/1984)

OGLE, J. W. (P-14)

SMITH, RUSS C. (Q-7)

WARD, M.

RAMSEY, R.

HOLLABAUGH, J. S.

32. ISOTOPE SEPARATION

32-1

ABSORPTION SPECTRUM OF PLUTONIUM
HEXAFLUORIDE IN THE 3000 - 9000
A SPECTRAL REGION.
SPECTROCHIM. ACTA,
V.40A, P.587-9. 1984.
WALTERS, RAYMOND T.
BRIESMEISTER, RICHARD A. (AP-4)

32-2

DAMAGE THRESHOLDS TO METAL MIRRORS BY
SHORT - PULSE CARBON DIOXIDE LASER
RADIATION.
LASER INDUCED DAMAGE IN OPTICAL
MATERIALS, 13TH, 1981, BOULDER.
PROC., P.229-38. NBS, 1983.
(620.112/S9890M/13TH/1981)
FIGUEIRA, JOSEPH F. (AP-5)
THOMAS, SCOTT J. (AP-5)
HARRISON, RONALD F. (AP-5)

32-3

METHOD OF SEPARATING BORON ISOTOPES.
PATENTED
MAY 8, 1984, FILED 1981.
(U.S. PATENT-4,447,303)
JENSEN, REED J. (P-DO)
THORNE, JAMES M.
CLUFF, CORAN L.
HAYES, JOHN K. (ADWP-2)

32-4

MULTIPLE - SHOT ULTRAVIOLET LASER
DAMAGE RESISTANCE OF NONQUARTERWAVE
REFLECTOR DESIGNS FOR 248 NM.
LASER INDUCED DAMAGE IN OPTICAL
MATERIALS, 13TH, 1981, BOULDER.
PROC., P.363-371. NBS. 1983.
(620.112/S9890M/13TH/1981)
ALSO PUBLISHED IN:
TIC,
1982. 20P. MN (LA-UR-82-1774)
NEWNAM, BRIAN E. (AP-2)
FOLTYN, STEPHEN R. (AP-2)
JOLIN, L. J. (AP-2)

33. LIGHT WATER REACTOR TECHNOLOGY

33-1
ANALYSIS OF UNMITIGATED BORON DILUTION
EVENTS IN PRESSURIZED WATER REACTORS
DURING SHUTDOWN.

TRANS. AM. NUCL. SOC.,
V.46, P.254-6. 1984.
NASSERSHARIF, BAHRAM (Q-7)
WING, J. E. (J-15)

33-2
ASSESSMENT OF THE UTILITY OF FEED-
AND - BLEED OPERATING MAPS.

TRANS. AM. NUCL. SOC.,
V.47, P.263-6. 1984.
BOYACK, B. E. (Q-7)

33-3
FAST NUMERICAL METHODS IN 3 - D.
TIC,

1984. 11P. MN (LA-UR-84-1721)
WOODRUFF, SUSAN B. (Q-8)

33-4
HMS - A MODEL FOR HYDROGEN MIGRATION
STUDIES IN LWR CONTAINMENTS.

INTL. CONF. ON THE IMPACT OF HYDROGEN
ON WATER REACTOR SAFETY, 2ND, 1982,
ALBUQUERQUE. PROC., P.489-508.
(NUREG/CP-0038)
TRAVIS, JOHN R. (T-3)

33-5
HYDROGEN DIFFUSION FLAMES BURNING IN A
MARK-III CONTAINMENT DESIGN.

TIC,
1984. 33P. MN (LA-UR-84-1319)
TRAVIS, JOHN R. (T-3)

33-6
HYDROGEN MIXING STUDY (HMS) IN LWR
TYPE CONTAINMENTS.

TIC,
1983. 21P. MN (LA-UR-83-3451)
TRAVIS, JOHN R. (T-3)

33-7
HYDROGEN TRANSPORT, MIXING, AND
COMBUSTION STUDIES.

TIC,
1984. 16P. MN (LA-UR-84-1649)
TRAVIS, JOHN R. (T-3)

33-8
INTERFACING SYSTEMS LOSS - OF - COOLANT
ACCIDENT IN OCONEE UNIT 1 PRESSURIZED
WATER REACTOR.

TRANS. AM. NUCL. SOC.,
V.47, P.258-60. 1984.
NASSERSHARIF, BAHRAM (Q-7)

33-9
LOFW - INITIATED ATWS ANALYSIS FOR
OCONEE - 1 USING TRAC - PF1/MOD1.
TRANS. AM. NUCL. SOC.,
V.47, P.260-1. 1984.

HENNINGER, RUDOLPH J. (Q-7)
JENKS, RICHARD P. (Q-7)

33-10
NEUTRON MEASUREMENTS IN BORATED WATER
FOR PWR FUEL INSPECTIONS.

LOS ALAMOS,
1984. 68P. (LA-10068-MS)
RINARD, PHILLIP M. (Q-1)

33-11
NUCLEAR PLANT ANALYZER DEVELOPMENT AT
LOS ALAMOS.

INTL. NUCLEAR POWER PLANT THERMAL
HYDRAULICS AND OPERATIONS TOPICAL
MEETING, 1984, TAIPEI. PROC.,
P.H7-1-8. AMER. NUCLEAR SOCIETY,
1984. (621.483/161NU/1984)
LILES, DENNIS R. (Q-9)
GIGUERE, PAUL T. (Q-9)

33-12
PWR SHUTDOWN DECAY HEAT REMOVAL
ANALYSES IN SUPPORT OF TAP A - 45.

TIC,
1983. 13P. MN (LA-UR-83-3116).
BOYACK, B. E. (Q-7)
HENNINGER, RUDOLPH J. (Q-7)
SMITH, RUSS C. (Q-7)

33-13
REACTOR VITAL EQUIPMENT DETERMINATION
TECHNIQUES.

TIC,
1983. 9P. MN (LA-UR-83-3026)
BOTT, T. F. (Q-7)
THOMAS, W. S.

33-14
SMALL - BREAK LOCA RECOVERY IN B&W
PLANTS.

TIC,
1983. 13P. MN (LA-UR-83-2786)
HENNINGER, RUDOLPH J. (Q-7)
IRELAND, JOHN R. (Q-7)
DEMUTH, NELSON S., JR. (Q-7)

33-15
THREE - DIMENSIONAL THERMAL-
HYDRAULIC CALCULATIONS USING
SOLA - PTS.

TIC,
1983. 28P. MN (LA-UR-83-3062)
DALY, BART J. (T-3)
TORREY, MARTIN D. (T-3)

33-16
TRAC - PF1 - PRESSURIZED THERMAL SHOCK
CALCULATIONS FOR SEVERAL SMALL - BREAK
LOSS - OF - COOLANT ACCIDENT TRANSIENTS
IN THE OCONEE - 1 NUCLEAR POWER PLANT.

TIC,
1983. 17P. MN (LA-UR-83-2816)
BURKETT, MICHAEL W. (Q-6)
BASSETT, BRITT (Q-7)

33-17
TRAC - PF1 ANALYSIS OF LOFT STEAM-
GENERATOR FEEDWATER TRANSIENT TEST
L9-1.

TIC,
1983. 10P. MN (LA-UR-83-2780)
MEIER, JOHN K. (Q-9)

33-18
TRAC - PF1 STUDY OF LOSS OF PUMP SEALS
IN A WESTINGHOUSE PWR.

TRANS. AM. NUCL. SOC.,
V.46, P.472-3. 1984.
BARTS, EDWARD W. (Q-6)
BOTT, T. F. (Q-7)

33-19
TRAC - PF1/MOD1 COMPUTER CODE.

TIC,
1983. 7P. MN (LA-UR-83-2396)
LILES, DENNIS R. (Q-9)
MAHAFFY, JOHN H. (Q-9)

33-20
TRAC ANALYSES FOR CCTF AND SCTF TESTS
AND UPTF DESIGN/OPERATION.

TIC,
1983. 27P. MN (LA-UR-83-2949)
WILLIAMS, KEN A. (Q-8)

33-21
TRAC ANALYSIS AND SUPPORT OF OCONEE - 1
PTS STUDIES.

TIC,
1983. 15P. MN (LA-UR-83-3011)
IRELAND, JOHN R. (Q-7)

33-22
TRAC ANALYSIS OF THE CRYSTAL RIVER
UNIT - 3 PLANT TRANSIENT OF FEBRUARY 26,
1980.

TIC,
1983. 12P. MN (LA-UR-83-2719)
CODDINGTON, PAUL
WILLCUTT, GORDON J., JR. (Q-7)

33-23

TRAC CALCULATIONS OF OVERCOOLING
TRANSIENTS IN PWRs FOR PRESSURIZED
THERMAL SHOCK ANALYSIS.

AMERICAN NUCLEAR SOCIETY TOPICAL
MEETING ON ANTICIPATED AND ABNORMAL
PLANT TRANSIENTS IN LIGHT WATER
REACTORS, 1983, JACKSON.
PROC., P.587-601. PLENUM, 1984.

ALSO PUBLISHED IN:

TIC,

1983. 16P. MN (LA-UR-83-2753)

IRELAND, JOHN R. (Q-7)

BOYACK, B. E. (Q-7)

33-24

TRAC INDEPENDENT ASSESSMENT FOR PWR
ANALYSIS.

TIC,

1983. 14P. MN (LA-UR-83-3127)

KNIGHT, THAD D. (Q-9)

33-25

TRAC-PF1 POST-TEST PREDICTIONS FOR THE
SEMISCALE NATURAL - CIRCULATION TESTS
S - NC -2 AND S - NC - 6.

TIC,

1983. 13P. MN (LA-UR-83-2806)

BOOKER, C. P. (Q-9)

35. LMFBR—FUELS AND MATERIALS ENGINEERING AND DEVELOPMENT: BASE TECHNOLOGY

35-1
EXAMINATION OF FAST REACTOR FUELS AND
FBR ANALYTICAL QUALITY ASSURANCE
STANDARDS AND METHODS, OCTOBER 1-
DECEMBER 31, 1983.
LOS ALAMOS,
1984. 4P. (LA-10036-PR)
WOOD, WARREN T. (MST-14)

35-2
EXAMINATION OF FAST REACTOR FUELS AND
FBR ANALYTICAL QUALITY - ASSURANCE
STANDARDS AND METHODS, JANUARY 1-
MARCH 31, 1984.
LOS ALAMOS,
1984. 4P. (LA-10120-PR)
DOWLER, KEITH E. (MST-14)

35-3
SLIDELINE VERIFICATION FOR MULTILAYER
PRESSURE VESSEL AND PIPING ANALYSIS
INCLUDING TANGENTIAL MOTION.
TIC,
1984. 26P. MN (LA-UR-83-3514)
VAN GULICK, LEONARD A. (WX-11)

36. LMFBR—SAFETY TECHNOLOGY

36-1
INTERSUBASSEMBLY FUEL PENETRATION INTO A
FAILED PRIMARY CONTROL SUBASSEMBLY IN AN
LMFBR.
LOS ALAMOS,
1984. 27P. (LA-09952-MS)
DE VAULT, GUILLAUME P. (Q-7)

36-2
RADIAL POWER SHIFTS IN HETEROGENEOUS
FAST REACTOR CALCULATIONS.
TRANS. AM. NUCL. SOC.,
V.46, P.502-3. 1984.
ASPREY, MARGARET W. (X-7)

37. MAGNETIC FUSION ENERGY

- 37-1**
ADVANCED NUCLEAR DATA FOR RADIATION DAMAGE CALCULATIONS.
TIC,
1983. 7P. MN (LA-UR-83-2628)
MAC FARLANE, ROBERT E. (T-2)
FOSTER, D. GRAHAM, JR. (T-2)
- 37-2**
CERAMICS FOR FUSION DEVICES.
J. MATER. ENERGY SYST.,
V.6, P.100-5. 1984.
ALSO PUBLISHED IN:
TIC,
1984. 9P. MN (LA-UR-84-1354)
CLINARD, FRANK W., JR. (MST-5)
- 37-3**
DESCRIPTION AND PERFORMANCE OF URANIUM BEDS USED TO PUMP TRITIUM-DEUTERIUM AT THE TRITIUM SYSTEMS TEST ASSEMBLY.
ASSEMBLY.
J. VAC. SCI. TECHNOL.,
V.2A, P.722-3. 1984.
ALSO PUBLISHED IN:
TIC,
1983. 5P. MN (LA-UR-83-2694)
WALTHERS, CHARLES R. (MST-3)
- 37-4**
DESIGN AND OPERATION OF THE 30 MJ SUPERCONDUCTING MAGNETIC STORAGE SYSTEM ON THE BONNEVILLE POWER ADMINISTRATION BUS.
TIC,
1983. 11P. MN (LA-UR-83-2594)
ALSO PUBLISHED IN:
ADV. CRYOG. ENG.,
V.29, P.123-32. 1984.
SCHERMER, ROBERT I. (CTR-9)
BARRON, MICHAEL H. (CTR-9)
BOENIG, HEINRICH J. (CTR-9)
BROWN, R. R. (E-5)
CRISCUOLO, ALPHONSE L. (E-8)
CUMMING, COLIN J. (E-8)
DEAN, JOHN W. (CTR-9)
HASSENZAHN, WILLIAM V. (CTR-9)
ROGERS, JOHN D., JR. (CTR-9)
SEAMONS, MAX J. (E-8)
TURNER, ROBERT D. (CTR-9)
WHITFILL, JAMES A. (E-5)
CHASTAIN, R. E.
COLEMAN, J. G.
HANER, J. M.
HAUER, J. F.
MILLER, B. L.
SCHAAD, P. A.
ALCORN, J. S.
HOFFMAN, E. H.
PURCELL, JOHN R.
- 37-5**
MATERIALS NEEDS FOR COMPACT FUSION REACTORS.
TIC,
1983. 15P. MN (LA-UR-83-2570)
KRAKOWSKI, ROBERT A. (CTR-12)
- 37-6**
METHOD AND APPARATUS FOR FAST LASER PULSE DETECTION USING GASEOUS PLASMAS.
PATENTED
MAY 8, 1984, FILED 1981.
(U.S.PATENT-4,447,151)
MC LELLAN, EDWARD J. (AP-5)
WEBB, JOHN A. (L-9)
- 37-7**
PLANT AND OPERATIONAL FEATURES OF THE BPA 30 MJ SUPERCONDUCTING MAGNETIC ENERGY STORAGE SYSTEM.
TIC,
1984. 7P. MN (LA-UR-84-0052)
ROGERS, JOHN D., JR. (CTR-9)
HAUER, J. F.
- 37-8**
RADIATION - INDUCED RF LOSS MEASUREMENTS AND THERMAL STRESS CALCULATIONS FOR CERAMIC WINDOWS.
TIC,
1983. 7P. MN (LA-UR-83-2783)
FOWLER, J. D. (MST-5)
- 37-9**
SOME CONSIDERATIONS ON SILICONE OIL IN HIGH CURRENT AND ENERGY DISCONNECTING MECHANISMS.
LOS ALAMOS,
1984. 9P. (LA-10035-MS)
VOGEL, HERBERT F. (CTR-4)
- 37-10**
STRUCTURAL PERFORMANCE OF CERAMICS IN A HIGH - FLUENCE FUSION ENVIRONMENT.
J. NUCL. MATER.,
V.122-3, P.1386-92. 1984.
ALSO PUBLISHED IN:
TIC,
1983. 8P. MN (LA-UR-83-2742)
CLINARD, FRANK W., JR. (MST-5)
HURLEY, GEORGE F. (MST-5)
HOBBS, LINN W. (MST-5)
ROHR, DANA L. (MST-5)
YOUNGMAN, ROBERT A. (MST-5)
- 37-11**
STUDY OF DEFECTS PRODUCED IN TUNGSTEN BY 800 - MEV PROTONS USING FIELD ION MICROSCOPY.
TIC,
1983. 7P. MN (LA-UR-83-2572)
FARNUM, DAVID J. (MP-13)
SOMMER, WALTER F., JR. (MP-13)
INAL, OSMAN T.
- 37-12**
SUPERCONDUCTING MAGNETIC ENERGY STORAGE (SMES) PROGRAM, JANUARY 1 - DECEMBER 31, 1983.
LOS ALAMOS,
1984. 24P. (LA-10050-PR)
ROGERS, JOHN D., JR. (CTR-9)
- 37-13**
TESTS OF THE 30 MJ SUPERCONDUCTING MAGNETIC ENERGY STORAGE UNIT.
TIC,
1983. 7P. MN (LA-UR-83-2516)
BOENIG, HEINRICH J. (CTR-9)
DEAN, JOHN W. (CTR-9)
ROGERS, JOHN D., JR. (CTR-9)
SCHERMER, ROBERT I. (CTR-9)
HAUER, J. F.
- 37-14**
30 MJ SMES SYSTEM OPERATING EXPERIENCE, NOVEMBER 1982 - JUNE 1983.
DOE PHYSICAL AND CHEMICAL ENERGY STORAGE ANNUAL CONTRACTORS' REVIEW MEETING, 1983, ARLINGTON. PROC., P.189-94. DOE, 1983. (CONF-830974)
ALSO PUBLISHED IN:
TIC,
1983. 7P. MN (LA-UR-83-2395)
SCHERMER, ROBERT I. (CTR-9)
- 37-15**
30 MJ SUPERCONDUCTING MAGNETIC ENERGY STORAGE STABILIZING SYSTEM - AN OVERVIEW.
DOE PHYSICAL AND CHEMICAL ENERGY STORAGE ANNUAL CONTRACTORS' REVIEW MEETING, 1983, ARLINGTON. PROC., P.184-88. DOE, 1983. (CONF-830974)
ALSO PUBLISHED IN:
TIC,
1983. 6P. MN (LA-UR-83-2343)
ROGERS, JOHN D., JR. (CTR-9)
BOENIG, HEINRICH J. (CTR-9)
DEAN, JOHN W. (CTR-9)
SCHERMER, ROBERT I. (CTR-9)
ANNESRAND, S. A.
HAUER, J. F.
MILLER, B. L.

38. MATERIALS

- 38-1**
AUGER AND DEPTH PROFILE ANALYSIS OF SYNTHETIC CRYSTALS FOR DISPERSION OF THE SOFT X - RAYS.
APPL. SURF. SCI.,
V.18, P.165-81. 1984.
ALSO PUBLISHED IN:
TIC,
1983. 25P. MN (LA-UR-83-1965)
RACHOCKI, KENNETH D. (MST-5)
BROWN, DAVID R. (MST-6)
SPRINGER, ROBERT W. (MST-6)
ARENDT, PAUL N. (MST-6)
- 38-2**
BIAXIAL DEFORMATION OF 70 - 30 BRASS - FLOW BEHAVIORS, TEXTURE, MICROSTRUCTURES.
METALL. TRANS.,
V.15A, P.1607-12. 1984.
STOUT, MICHAEL G. (MST-5)
STAUDHAMMER, KARL P. (MST-5)
- 38-3**
CALCULATION OF DISPLACEMENT AND HELIUM PRODUCTION AT THE LAMPF IRRADIATION FACILITY.
TIC,
1984. 18P. MN (LA-UR-84-1124)
DAVIDSON, D. R. (MP-13)
GREENWOOD, L. R.
SOMMER, WALTER F., JR. (MP-13)
WECHSLER, M. S. (MP-3)
- 38-4**
CERAMIC - CERAMIC SEALS BY MICROWAVE HEATING.
TIC,
1984. 15P. MN (LA-UR-84-0541)
MEEK, THOMAS T. (MST-6)
BLAKE, RODGER D. (MST-6)
- 38-5**
CHARACTERIZATION OF A SAMPLE OF VERY PURE HAFNIA.
LOS ALAMOS.
1984. 4P. (LA-09930)
SKAGGS, SAMUEL R. (CMB-3)
GAC, FRANK D. (MST-6)
MAGNUSON, JOHN E. (MST-6)
- 38-6**
CLOSE LOOK AT LOW - TEMPERATURE MAGNETIZATION DATA FOR TITANIUM BERYLLIUM 2.
J. MAGN. MAGN. MATER.,
V.46, P.11-8. 1984.
ACKER, FLORENTIN
HUGUENIN, R.
PELIZZONE, M.
SMITH, JAMES L. (MST-5)
- 38-7**
CREEP AND THERMAL EFFECTS IN AGING SOLIDS.
TIC,
1983. 38P. MN (LA-UR-83-1379)
ANDERSON, CHARLES A. (Q-13)
- 38-8**
DEVELOPMENT OF PLUTONIUM TRANSMISSION ELECTRON MICROSCOPY.
LOS ALAMOS,
1984. 11P. (LA-09965-MS)
ROHR, DANA L. (MST-5)
STAUDHAMMER, KARL P. (MST-5)
JOHNSON, KAYE ALLAN (MST-13)
- 38-9**
DEVELOPMENT OF THE VLS PROCESS FOR SIC WHISKER GROWTH.
TIC,
1984. 20P. MN (LA-UR-83-3717)
HURLEY, GEORGE F. (MST-5)
- 38-10**
EFFECTS OF NEUTRON IRRADIATION ON MAGNETIC PERMEABILITY OF AMORPHOUS AND CRYSTALLINE MAGNETIC ALLOYS.
J. APPL. PHYS.,
V.55, P.1754-6. 1984
BROWN, ROBERT D. (MP-7)
COST, JAMES RICHARD (MST-5)
STANLEY, JAMES T. (MST-5)
- 38-11**
EFFECTS OF SUPERCONDUCTIVITY ON RARE-EARTH DYNAMICS IN (HOLIUM LUTETIUM) RHODIUM BORIDES.
J. APPL. PHYS.,
V.55, P.2007-9. 1984.
ALSO PUBLISHED IN:
TIC,
1983. 15P. MN (LA-UR-83-2775)
HEFFNER, ROBERT H. (MP-3)
COOKE, D. W.
HUTSON, RICHARD L. (MP-3)
LEON, MELVIN (MP-3)
SCHILLACI, MARIO E. (MP-3)
SMITH, JAMES L. (MST-5)
YAOUANC, ALAIN (MP-3)
DODDS, STANLEY A.
GUPTA, LAXMI C.
MAC LAUGHLIN, DOUGLAS E.
BOEKEMA, CAROLUS (MP-3)
- 38-12**
ELECTRON BEAM DIAGNOSTIC FOR THE LOS ALAMOS FREE - ELECTRON LASER OSCILLATOR EXPERIMENT.
LINEAR ACCELERATOR CONFERENCE, 1984, SEEHEIM. PROC., P.436-8. 1984. (GSI-84-11)
ALSO PUBLISHED IN:
TIC,
1984. 4P. MN (LA-UR-84-1191)
SHEFFIELD, RICHARD L. (AT-7)
- 38-13**
EXCITATION AND IRON CONCENTRATION DEPENDENCES IN THE IMPULSE PHOTOCONDUCTANCE OF INDIUM PHOSPHOROUS-IRON.
APPL. PHYS. LETT.,
V.44, P.620-2. 1984.
HAMMOND, ROBERT B. (E-11)
PAULTER, NICHOLAS G. (E-11)
WAGNER, RONALD S. (E-11)
SPRINGER, THOMAS E. (E-11)
- 38-14**
FRACTURE TOUGHNESS OF A BETA - SILICON CARBIDE WHISKER.
J. AM. CERAM. SOC.,
V.67, P.C219-20. 1984.
PETROVIC, JOHN J. (MST-5)
ROOF, RAYMOND BRADLEY, JR. (MST-5)
- 38-15**
HEAVY-FERMION SYSTEMS.
REV. MOD. PHYS.,
V.56, P.755-84. 1984.
STEWART, GREGORY R. (MST-5)
- 38-16**
HENRY'S LAW VAPORIZATION STUDIES AND THERMODYNAMICS OF EINSTEINIUM - 253 METAL DISSOLVED IN YTTERBIUM.
J. CHEM. PHYS.,
V.81, P.473-7. 1984.
KLEINSCHMIDT, PHILLIP D. (MST-5)
WARD, JOHN W. (MST-13)
MATLACK, GEORGE M. (CHM-1)
HAIRE, RICHARD G.
- 38-17**
HIGH-FIELD SPECIFIC HEATS OF A15 VANADIUM SILICON AND NIOBIUM TIN.
PHYS. REV.,
V.29B, P.3908-12. 1984.
STEWART, GREGORY R. (MST-5)
BRANDT, BRUCE L.

38-18
IMPURITIES IN THE HEAVY-FERMION
SUPERCONDUCTOR URANIUM BERYLLIUM 13.

TIC,
1983. 20P. MN (LA-UR-83-3064)
ALSO PUBLISHED IN:
J. APPL. PHYS.,
V.55, P.1896-9. 1984.

SMITH, JAMES L. (MST-5)
FISK, ZACHARY (MST-5)
WILLIS, JEFFREY O. (MST-5)
BATLOGG, B.
OTT, HANS R.

38-19
INFLUENCE OF SPIN FLUCTUATIONS ON THE
ELECTRICAL RESISTANCE OF URANIUM
ALUMINUM 2 AND URANIUM PLATINUM 3 AT
HIGH PRESSURES AND LOW TEMPERATURES.

PHYS. REV.,
V.30B, P.5591-5. 1984.

WIRE, MIKE S. (MST-5)
THOMPSON, JOE D. (P-10)
FISK, ZACHARY (MST-5)

38-20
ISOTHERMAL CALORIMETRIC INVESTIGATION
OF A REVERSIBLE REACTION IN RAPIDLY
SOLIDIFIED IRON 40 NICKEL 40 BORON 20.

TIC,
1983. 6P. MN (LA-UR-84-0136)
COST, JAMES RICHARD (MST-5)
ELLIOTT, REED O. (CMB-5)
STANLEY, JAMES T. (MST-5)

38-21
KINETICS OF STRUCTURAL RELAXATION IN
METALLIC GLASSES.

TIC,
1983. 7P. MN (LA-UR-83-2254)
ALSO PUBLISHED IN:
J. NON-CRYST. SOLIDS.
V.61-62, P.799-804. 1984
COST, JAMES RICHARD (MST-5)
STANLEY, JAMES T. (MST-5)

38-22
LOW DENSITY, MICROCELLULAR FOAMS,
PREPARATION, AND ARTICLES.

PATENTED
FEB. 7, 1984, FILED 1982.
(U.S. PATENT-4,430,451)
YOUNG, AINSLIE T., JR. (MST-6)
MARSTERS, ROBERT G. (MST-6)
MORENO, DAWN K. (CMB-10)

38-23
LOW-TEMPERATURE PROPERTIES OF THE HEAVY-
FERMION SYSTEM URANIUM CADMIUM 11.

PHYS. REV.,
V.30B, P.6360-2. 1984
FISK, ZACHARY (MST-5)
STEWART, GREGORY R. (MST-5)
WILLIS, JEFFREY O. (MST-5)
OTT, HANS R.
HULLIGER, F.

38-24
MAGNETIC SUSCEPTIBILITY, ELECTRICAL
RESISTIVITY, AND SPECIFIC HEAT OF
SINGLE CRYSTAL LANTHANUM IRON 4
PHOSPHORUS 12.

INTERNATIONAL CONFERENCE ON LOW
TEMPERATURE PHYSICS, 17TH, 1984,
KARLSRUHE. PROC., P.711-2. ELSEVIER,
1984.

MEISNER, G. P. (MST-5)
STEWART, GREGORY R. (MST-5)
TORIKACHVILI, MILTON S.
MAPLE, MERRILL B.

38-25
MATERIALS SCIENCE AND TECHNOLOGY
DIVISION - ORGANIZATIONAL PROFILE.

LOS ALAMOS,
1984. 6P. (LALP-83-058)
NEARY, JOAN (IS-1)

38-26
METALLOGRAPHIC GRINDING EFFICIENCY.

LOS ALAMOS,
1984. 8P. (LA-10215-M5)
JOHNSON, KAYE ALLAN (MST-13)

38-27
MULTIAXIAL LOADING FRACTURE OF
ALUMINUM OXYGEN TUBES - I -
EXPERIMENTS.

J. AM. CERAM. SOC.,
V.67, P.14-8. 1984.
STOUT, MICHAEL G. (MST-5)
PETROVIC, JOHN J. (MST-5)

38-28
MULTIAXIAL LOADING FRACTURE OF
ALUMINUM OXYGEN TUBES - II, WEIBULL
THEORY AND ANALYSIS.

J. AM. CERAM. SOC.,
V.67, P.18-22. 1984.
PETROVIC, JOHN J. (MST-5)
STOUT, MICHAEL G. (MST-5)

38-29
MUON SPIN RELAXATION IN SPIN GLASS
PALLADIUM MANGANESE.

TIC,
1983. 15P. MN (LA-UR-83-3443)
HEFFNER, ROBERT H. (MP-3)
LEON, MELVIN (MP-3)
SCHILLACI, MARIO E. (MP-3)
DODDS, STANLEY A.
GIST, GRANT A.
MACLAUGHLIN, DOUGLAS E.
MYDOSH, JOHN A.
NIEUWENHUYTS, G. J.

38-30
MUON SPIN RELAXATION.

PHYS. TODAY,
V.37, P.38-45. 1984.
HEFFNER, ROBERT H. (MP-3)
FLEMING, DONALD G.

38-31
NEW CERIUM HEAVY FERMION SYSTEM -
CERIUM COPPER 6.

PHYS. REV.,
V.30B, P.482-3. 1984.
STEWART, GREGORY R. (MST-5)
FISK, ZACHARY (MST-5)
WIRE, MIKE S. (MST-5)

38-32
NEW HEAVY-FERMION SYSTEM, NEPTUNIUM
BERYLLIUM 13, WITH A COMPARISON TO
URANIUM BERYLLIUM 13 AND PLUTONIUM
BERYLLIUM 13.

PHYS. REV.,
V.30B, P.1249-52. 1984.
STEWART, GREGORY R. (MST-5)
FISK, ZACHARY (MST-5)
SMITH, JAMES L. (MST-5)
WILLIS, JEFFREY O. (MST-5)
WIRE, MIKE S. (MST-5)

38-33
NON-LINEAR DYNAMICS, BREATHERS AND
PHOTOINDUCED ABSORPTION IN
POLYACETYLENE.

SYNTH. MET.,
V.9, P.223-39. 1984.
BISHOP, ALAN R. (T-11)
CAMPBELL, DAVID K. (CNLS)
LOMDAHL, PETER S. (CNLS)
HOROVITZ, BARUCH
PHILLPOT, SIMON R.

38-34
NOVEL HARD METAL COMPOSITIONS AND
PROPERTIES.

INTERNATIONAL SCHOOL ON SINTERED
MATERIALS, 3RD, 1983, NEW DELHI.
PROC., P.377-98. ELSEVIER, 1984.
ALSO PUBLISHED IN:
TIC,
1983. 26P. MN (LA-UR-83-3045)
SHEINBERG, HASKELL (MST-6)

38-35
NOVEL RF-PLASMA SYSTEM FOR THE
SYNTHESIS OF ULTRAFINE, ULTRAPURE
SILICON CARBIDE AND SILICON NITRIDE.

MATERIALS RESEARCH SOCIETY SYMPOSIA,
1983, BOSTON. PROC., P.283-8.
ELSEVIER, 1984.
ALSO PUBLISHED IN:
TIC,
1983. 19P. MN (LA-UR-83-3169)
VOGT, GERALD J. (MST-3)
HOLLABAUGH, CHARLES M. (MST-3)
HULL, DONALD E. (MST-7)
NEWKIRK, LAWRENCE R. (MST-3)
PETROVIC, JOHN J. (MST-5)

- 38-36
ON THE ORIGIN OF SHEAR BANDS IN
TEXTURED POLYCRYSTALS.
SCR. METALL.,
V.18, P.437-42. 1984.
CANOVA, G. R. (CMS)
KOCKS, U. FRED (CMS)
STOUT, MICHAEL G. (MST-5)
- 38-37
PHASE DIAGRAM AND CRITICAL POINTS OF
CERIUM ALLOYS.
J. APPL. PHYS.,
V.55, P.1921-4. 1984.
FISK, ZACHARY (MST-5)
THOMPSON, JOE D. (P-10)
LAWRENCE, J. M.
SMITH, JAMES L. (MST-5)
BATLOGG, B.
- 38-38
PHASE STABILITY AND MAGNETIC PROPERTIES
OF URANIUM ALUMINUM SUB 2 BASED
PSEUDOBINARY SPIN FLUCTUATION COMPOUNDS.
LOS ALAMOS,
1984. 98P. (LA-10199-T)
WIRE, MIKE S. (MST-5)
- 38-39
PHONON ANOMALIES IN ZIRCONIUM
RUTHENIUM PHOSPHORUS?
J. LOW TEMP. PHYS.,
V.55, P.11-5. 1984.
KEIBER, HUBERT
WUHL, HELMUT
MEISNER, G. P. (MST-5)
STEWART, GREGORY R. (MST-5)
- 38-40
POLYACETYLENE FIBRIL GROWTH IN SOLUBLE
ZIEGLER-NATTA CATALYSTS.
MACROMOLECULES,
V.17, P.1633-4. 1984.
*ALDISSI, MAHMOUD (MST-6)
SCHUE, F.
- 38-41
POSSIBILITY OF COEXISTENCE OF BULK
SUPERCONDUCTIVITY IN URANIUM PLATINUM.
FLUCTUATIONS IN UPT3.
PHYS. REV. LETT.,
V.52, P.679-81. 1984.
STEWART, GREGORY R. (MST-5)
FISK, ZACHARY (MST-5)
WILLIS, JEFFREY O. (MST-5)
SMITH, JAMES L. (MST-5)
- 38-42
PREPARATION AND CHARACTERIZATION OF
PLUTONIUM-240 OXIDE USED FOR
HALF - LIFE MEASUREMENT.
INT. J. APPL. RADIAT. ISOT.,
V.35, P.159-61. 1984.
REIN, JAMES E. (CMB-1)
WATERBURY, GLENN R. (CMB-1)
- 38-43
SELF - IRRADIATION EFFECTS IN
238 PLUTONIUM-SUBSTITUTED ZIRCONOLITE.
I. TEMPERATURE-DEPENDENCE OF DAMAGE.
J. NUCL. MATER.,
V.126, P.245-54. 1984.
CLINARD, FRANK W., JR. (MST-5)
PETERSON, DEAN E. (MST-5)
ROHR, DANA L. (MST-5)
HOBBS, LINN W. (MST-5)
- 38-44
STRUCTURAL DAMAGE IN A SELF -
IRRADIATED ZIRCONOLITE - BASED
CERAMIC.
TIC,
1983. 22P. MN (LA-UR-83-1473)
ALSO PUBLISHED IN:
NUCL. INSTRUM. METHODS,
V.81, P.581-6. 1984.
CLINARD, FRANK W., JR. (MST-5)
ROHR, DANA L. (MST-5)
ROOF, RAYMOND BRADLEY, JR. (MST-5)
- 38-45
STUDY OF DEFECTS PRODUCED IN TUNGSTEN
BY 800 MEV PROTONS USING FIELD ION
MICROSCOPY.
J. NUCL. MATER.,
V.122-3, P.996-1001. 1984
FARNUM, DAVID J. (MP-13)
SOMMER, WALTER F., JR. (MP-13)
INAL, OSMAN T.
- 38-46
SUPERCONDUCTING GROUND STATE OF A
STRONGLY INTERACTING ELECTRON SYSTEM -
URANIUM BERYLLIUM (13).
TIC,
1983. 8P. MN (LA-UR-83-2982)
OTT, HANS R.
RUDIGIER, H.
FISK, ZACHARY (MST-5)
SMITH, JAMES L. (MST-5)
- 38-47
TRANSITION TO DRAG-CONTROLLED
DEFORMATION IN COPPER AT HIGH STRAIN
RATES.
CONFERENCE ON THE MECHANICAL
PROPERTIES OF MATERIALS AT HIGH RATES
OF STRAINS, 3RD, 1984, OXFORD.
PROC., P.71-80. INSTITUTE OF PHYSICS.
1984.
FOLLANSBEE, PAUL S. (MST-5)
REGAZZONI, GILLES (MST-5)
KOCKS, U. FRED (CMS)
- 38-48
VAPORIZATION THERMODYNAMICS AND
ENTHALPY OF FORMATION OF ALUMINUM
SILICON CARBIDE.
J. AM. CERAM. SOC.,
V.67, P.575-8. 1984.
BEHRENS, ROBERT G. (CMB-3)
RINEHART, GARY H. (CMB-3)
- 38-49
X - P - T PHASE DIAGRAM FOR THE
GAMMA - ALPHA TRANSITION IN
CERIUM 0.9 - X LANTHANUM X THORIUM 0.1
ALLOYS.
PHYS. REV.,
V.29B, P.4017-25. 1984.
LAWRENCE, J. M.
THOMPSON, JOE D. (P-10)
FISK, ZACHARY (MST-5)
SMITH, JAMES L. (MST-5)
BATLOGG, B.
- 38-50
1.2 MBAR SHOCK LOADED 304 STAINLESS
STEEL - RESIDUAL STRUCTURE AND
PROPERTIES.
SHOCK WAVES IN CONDENSED MATTER,
1983, SANTA FE. PROC., P.419-21.
ELSEVIER, 1984.
STAUDHAMMER, KARL P. (MST-5)
JOHNSON, KAYE ALLAN (MST-11)
OLINGER, BARTON W. (M-6)

39. MATHEMATICS AND COMPUTERS

- 39-1
A PRIORI LOCAL GRID REFINEMENT IN THE MULTIGRID METHOD.
ELLIPTIC PROBLEM SOLVERS II,
G. BIRKHOFF & A. SCHOENSTADT, ED.,
P.439-51. ACADEMIC PRESS, INC., 1984.
(515.35/E46PR/1983)
ALSO PUBLISHED IN:
TIC,
1983. 14P. MN (LA-UR-83-0023)
DENDY, JOEL E., JR. (T-7)
- 39-2
ACQUISITION SYSTEMS FOR HEAT TRANSFER MEASUREMENT.
TIC,
1983. 32P. MN (LA-UR-83-3205)
DEWITT, RICHARD J. (WX-11)
- 39-3
ADAPTIVE MESH TECHNIQUES FOR FRONTS IN STAR FORMATION.
INTL. CONF. OF THE CENTER FOR NONLINEAR STUDIES, 3RD, 1983, LOS ALAMOS. PROC., P.408-25.
NORTH-HOLLAND PHYSICS PUBL., 1984.
(530.15/161CE/3RD/1983)
WINKLER, KARL-HEINZ ADOLF (X-DOT)
NORMAN, M. L. (X-8)
NEWMAN, MICHAEL J. (X-2)
- 39-4
AEROSOL MULTIPLE SCATTERING CODE ASCAT.
LOS ALAMOS,
1984. 50P. (LA-10046-MS)
ZARDECKI, ANDREW (T-DO)
GERSTL, S. A. W. (T-DOT)
- 39-5
AIRID - AN APPLICATION OF THE KAS/ PROSPECTOR EXPERT SYSTEM BUILDER TO AIRPLANE IDENTIFICATION.
APPLICATIONS OF ARTIFICIAL INTELLIGENCE, 1984, ARLINGTON. PROC., P.73-9. SPIE, 1984.
(001.535/A652AR/1984)
ALSO PUBLISHED IN:
TIC,
1984. 8P. MN (LA-UR-84-0988)
ALDRIDGE, JACK P. (NSP/AWT)
- 39-6
ALGORITHM FOR SINGULAR VALUE DECOMPOSITION.
REAL TIME SIGNAL PROCESSING, 7TH, 1984, SAN DIEGO. PROC., P.22-9.
SPIE, 1984. (621.38/R327T/7TH/1984)
ROSS, D. C. (E-8)
- 39-7
ANALYSIS OF MATERIALS ACCOUNTING DATA. MATHEMATICAL AND STATISTICAL METHODS IN NUCLEAR SAFEGUARDS, F. ARGENTESI, ET AL., P.143-5. HARWOOD ACADEMIC PUBLISHERS, 1983. (621.483/M426ST)
SHIPLEY, JAMES P., JR. (Q-DO/SG)
- 39-8
APPROXIMATE AND EXACT SCHEMES FOR PHOTON-MAXWELLIAN ELECTRON CROSS SECTIONS.
COMPUT. PHYS. COMMUN.,
V.34, P.77-86. 1984.
WIENKE, BRUCE R. (C-10)
LATHROP, BRAXTON L. (C-3)
- 39-9
ART AND THE COMPUTER.
ART AND THE COMPUTER. MCGRAW-HILL BOOK CO. 1984. (760/P971AR)
PRUEITT, MELVIN L. (X-7)
- 39-10
ATTACKS ON COMPUTERS - CONGRESSIONAL HEARINGS AND PENDING LEGISLATION. SYMPOSIUM ON SECURITY AND PRIVACY, 1984, OAKLAND. PROC., P.180-6.
IEEE, 1984.
ALSO PUBLISHED IN:
TIC,
1984. 8P. MN (LA-UR-84-0650)
BAILEY, DAVID J. (OS-4)
- 39-11
BENCHMARKING UNSTRUCTURED SYSTEMS.
TIC,
1983. 13P. MN (LA-UR-83-1207)
BRICE, LINDA (ADP-2)
CONNELL, JOHN L. (ADP-2)
LOCKHART, MILTON GLENN (ADP-2)
- 39-12
BREATHING-KINK-ANTIKINK-PAIR CONVERSION IN THE DRIVEN SINE-GORDON SYSTEM.
PHYS. REV.,
V.29A, P.350-4. 1984.
LOMDAHL, PETER S. (CNLS)
OLSEN, OLE H.
SAMUELSEN, MOGENS R.
- 39-13
CHARACTERIZING THE PARALLELISM IN RULE - BASED EXPERT SYSTEMS. HAWAII INTL. CONF. ON SYSTEM SCIENCES, 18TH, 1985, HONOLULU. PROC., P.47-54. THE CONF., 1985. (620.7/H112S/1985/V.2)
DOUGLASS, ROBERT J. (C-10)
- 39-14
CLASS OF EXACTLY SOLVABLE POTENTIALS I - ONE - DIMENSIONAL SCHRODINGER EQUATION.
ANN. PHYS.,
V.152, P.203-18. 1984.
GINOCCHIO, JOSEPH N. (T-5)
- 39-15
COMPARISON OF FMS VERSUS TDMS APPLICATIONS.
TIC,
1983. 31P. MN (LA-UR-83-3340)
WERNER, NANCY E. (ADP-2)
- 39-16
COMPARISON OF METHODS FOR SOLVING NONLINEAR FINITE - ELEMENT EQUATIONS IN HEAT TRANSFER.
CHEM. ENG. COMMUN.,
V.26, P.269-84. 1984.
JOHNSON, NORMAN LEE (WX-4)
GRAHAM, ALAN LYMAN (WX-4)
CORT, GEORGE E. (WX-4)
- 39-17
COMPUTER GRAPHICS SUPPORT SERVICE.
TIC,
1984. 13P. MN (LA-UR-84-1120)
DICKMAN, DONALD O. (Q-6)
- 39-18
COMPUTING DIVISION TWO - YEAR OPERATIONAL PLAN.
LOS ALAMOS,
1984. PAGED IN SECTIONS (LA-09978-MS)
EWALD, ROBERT H. (C-DO)
- 39-19
CONJUGATE GRADIENT PRECONDITIONERS FOR VECTOR AND PARALLEL PROCESSORS. ELLIPTIC PROBLEM SOLVERS II,
G. BIRKHOFF & A. SCHOENSTADT, ED.,
P.127-39. ACADEMIC PRESS, INC., 1984.
(515.35/E46PR/1983)
ALSO PUBLISHED IN:
TIC,
1983. 14P. MN (LA-UR-83-0272)
JORDAN, THOMAS LEE (C-3)
- 39-20
CONSERVATIVE REZONING (REMAPPING) FOR GENERAL QUADRILATERAL MESHES.
J. COMPUT. PHYS.,
V.54, P.411-24. 1984.
DUKOWICZ, JOHN K. (T-3)

- 39-21
CONTINUED FRACTION EXPANSIONS FOR THE COMPLETE, INCOMPLETE, AND RELATIVISTIC PLASMA DISPERSION FUNCTIONS.
J. MATH. PHYS.,
V.25, P.466-8. 1984.
PERATT, ANTHONY L. (X-8)
- 39-22
CON1D—A COMPUTER PROGRAM FOR CALCULATING SPHERICALLY SYMMETRIC DROPLET COMBUSTION.
LOS ALAMOS,
1984. 56P. (LA-10269-MS)
JANSSEN, ROBERT D. (CNLS)
O'ROURKE, PETER J. (T-3)
- 39-23
CRAY - 1 INSTRUCTION ANALYSIS - A COMPARISON OF TWO METHODS.
TIC,
1983. 24P. MN (LA-UR-83-1500)
MARTIN, JOANNE L. (C-3)
WARNOCK, TONY T.
- 39-24
CRAY/VAX INTERACTIVE GRAPHICS SYSTEMS.
TIC,
1983. 4P. MN (LA-UR-83-3397)
WILLERTON, DONALD L. (C-3)
- 39-25
CROSS - VALIDATION OF REGRESSION MODELS.
J. AM. STAT. ASSOC.,
V.79, P.575-83. 1984.
PICARD, RICHARD R. (S-1)
COOK, R. DENNIS (S-1)
- 39-26
CURRENT RESEARCH IN PARALLEL MICROPROCESSING SYSTEMS AT LOS ALAMOS.
TIC,
1984. 6P. MN (LA-UR-84-1324)
ETHRIDGE, C. DWAYNE (C-5)
- 39-27
CURRENT STATUS OF LINK ACCESS CONTROL AND ENCRYPTION SYSTEM.
TIC,
1984. 5P. MN (LA-UR-84-0465)
SPRINGER, EDWARD A. (OS-4)
- 39-28
CYCLOTOMIC IDENTITY.
CONTEMP. MATH.,
V.34, P.19-27. 1984.
METROPOLIS, NICHOLAS C. (T-DOT)
ROTA, GIAN-CARLO
- 39-29
DATABASE TRANSFERS BETWEEN SEVERAL SYSTEMS.
TIC,
1983. 10P. MN (LA-UR-83-3394)
DOLL, MARGARET A. (C-3)
- 39-30
DESIGN AND DESCRIPTIVE TOOLS FOR SYSTOLIC ARCHITECTURES.
REAL TIME SIGNAL PROCESSING, 7TH, 1984, SAN DIEGO. PROC., P.67-74.
SPIE, 1984. (621.38/R327T/7TH/1984)
LEWIS, PAUL S. (E-8)
- 39-31
DIELECTRIC POLARIZATION IN RANDOM MEDIA.
J. STAT. PHYS.,
V.35, P.49-74. 1984.
RAMSHAW, JOHN D. (T-3)
- 39-32
DIFFUSION - SYNTHETIC ACCELERATION METHODS FOR DISCRETE-ORDINATES PROBLEMS.
ADVANCES IN REACTOR COMPUTATIONS, 1983, SALT LAKE CITY. PROC., P.705-24. AMER. NUCLEAR SOCIETY, 1983. (621.483/A244RE/1983/V.2)
ALSO PUBLISHED IN:
TIC,
1983. 21P. MN (LA-UR-82-3581)
ALSO PUBLISHED IN:
TRANSP. THEORY STAT. PHYS.,
V.13, P.107-26. 1984.
LARSEN, EDWARD W. (T-1)
- 39-33
DIGITAL FILTERING IN A DISEASE DETECTION SYSTEM.
TIC,
1983. 15P. MN (LA-UR-83-3423)
BROWN, R. R. (E-5)
- 39-34
DOS21 - PCDOS, 2.0 SUPPORT SUBROUTINE PACKAGE FOR THE IBM PERSONAL COMPUTER.
LOS ALAMOS,
1984. 4P. (LA-10142-MS)
MC GIRT, A. FRANK (C-9)
- 39-35
DROPLETS OF 3 HELIUM ATOMS.
NATO ADVANCED RESEARCH WORKSHOP ON MONTE CARLO METHODS IN QUANTUM PROBLEMS, 1982, PARIS. PROC., P.33-9. D. REIDEL, 1984.
(530.12/N279WO/1982)
SCHMIDT, KEVIN E. (T-5)
- 39-36
DYNAMIC ACCELERATION OF NONLINEAR ITERATIONS.
ELLIPTIC PROBLEM SOLVERS II,
G. BIRKHOFF & A. SCHOENSTADT, ED., P.301-13. ACADEMIC PRESS, INC. 1984.
(515.35/E46PR/1983)
HYMAN, JAMES M. (T-7)
MANTEUFFEL, THOMAS A. (C-3)
- 39-37
EVENT84 USER'S MANUAL - A COMPUTER CODE FOR ANALYZING EXPLOSION - INDUCED GAS - DYNAMIC TRANSIENTS IN FLOW NETWORKS.
LOS ALAMOS,
1984. 94P. (LA-10312-M)
MARTIN, RICHARD A. (Q-DO)
WILSON, TIMOTHY L. (Q-6)
- 39-38
EZPIX - A TABLET ENTRY METHOD FOR COMPUTER GENERATED SLIDES, DRAWINGS, AND GRAPHS.
LOS ALAMOS,
1984. 27P. (LA-10208-M)
WILLIAMS, JOEL M. (MST-6)
- 39-39
FAMILY OF ALMOST PERIODIC SCHROEDINGER OPERATORS.
TIC,
1983. 27P. MN (LA-UR-83-2295)
BAKER, GEORGE A., JR. (T-11)
BESSIS, DANIEL
MOUSSA, PIERRE
- 39-40
FAST OPTIMAL ALIGNMENT.
NUCLEIC ACIDS RES.,
V.12, P.175-9. 1984.
FICKETT, JAMES WILDON (T-10)
- 39-41
FAST SCHEME FOR PHOTON - MAXWELLIAN ELECTRON CROSS SECTIONS.
J. COMPUT. PHYS.,
V.53, P.331-44. 1984.
WIENKE, BRUCE R. (C-3)
LATHROP, BRAXTON L. (C-3)
- 39-42
FLAME FRONTS WITH COMPLEX CHEMICAL NETWORKS.
TIC,
1983. 38P. MN (LA-UR-83-2886)
FIFE, PAUL C.
NICHOLS, BASIL (T-7)
- 39-43
FLAME FRONTS WITH COMPLEX CHEMICAL NETWORKS.
INTL. CONF. OF THE CENTER FOR NONLINEAR STUDIES, 3RD, 1983, LOS ALAMOS. PROC., P.182-97. NORTH-HOLLAND PHYSICS PUBL., 1984.
(530.15/161CE/3RD/1983)
FIFE, PAUL C.
NICOLAENKO, BASIL (T-7/CNLS)
- 39-44
HARDWARE DESCRIPTION LANGUAGES FOR SYSTOLIC ARCHITECTURES.
LOS ALAMOS,
1984. 135P. (LA-10255-T)
LEWIS, PAUL S. (E-8)

- 39-45
HGRAPH - A SUBROUTINE PACKAGE FOR THE
IBM PERSONAL COMPUTER TO SUPPORT THE
HERCULES GRAPHICS CARD.
LOS ALAMOS,
1984. 10P. (LA-10144-MS)
MC GIRT, A. FRANK (C-9)
- 39-46
HIGHLY PARALLEL COMPUTING.
IDENTIFYING RESEARCH AREAS IN THE
COMPUTER INDUSTRY TO 1995. R.F.
COTELLESA, ED., P.74-82. NOYES PUBL.
1984. (001.64/19RE/1983)
BROWNE, JAMES C.
ARDEN, BRUCE
ARVIND,
BASKETT, FOREST (C-11)
BUZBEE, BILLY L. (C-DO)
FRANKLIN, MARK
KELLER, ROBERT M.
KUNG, H. T.
LAWRIE, DUNCAN
RIS, FRED.
SCHORR, HERBERT
SIEGEL, HOWARD J.
SNYDER, LAWRENCE
VOIGT, ROBERT
- 39-47
HOW TO TALK TO YOUR COMPUTER
LITERALLY.
TIC,
1983. 8P. MN (LA-UR-83-3393)
FORD, WENDELL (Q-4)
- 39-48
HPLAS — MULTIGROUP CROSS SECTION AND
REACTION RATE PROCESSOR FOR COUPLED
HYDROGEN, HYDROGEN AND HYDROGEN PLUS
TRANSPORT APPLICATIONS IN PLASMAS.
COMPUT. PHYS. COMMUN.,
V.34, P.87-99. 1984.
WIENKE, BRUCE R. (C-3)
MOREL, J. E. (X-6)
CAYTON, THOMAS E. (CTR-6)
HOWELL, ROBERT B. (CTR-2)
- 39-49
ILLUSTRATOR'S VIEW OF MORE EFFECTIVE
TECHNICAL COMMUNICATION THROUGH
COMPUTER GRAPHICS.
TIC,
1981. 12P. MN (LA-UR-80-3457)
DE GASPERI, KATHLEEN D. (H-1)
- 39-50
IMPORTANCE ESTIMATION IN FORWARD.
MONTE CARLO CALCULATIONS.
NUCL. TECHNOL./FUSION,
V.5, P.90-100. 1984.
BOOTH, THOMAS E. (X-6)
HENDRICKS, JOHN S. (X-6)
- 39-51
INFORM SYSTEM TWO - YEAR PLAN
FY 1984 - 1985.
LOS ALAMOS,
1984. PAGED IN SECTIONS.
(LA-10185-MS)
THORN, ROBERT N. (DIR-0)
- 39-52
INTERACTIVE BENCHMARK COMPARISON
BETWEEN A VAX 11/780 AND A VAX 11/782.
TIC,
1983. 5P. MN (LA-UR-83-3396)
LUBECK, OLAF M. (C-3)
MARTINEZ, RONALD G. (C-3)
- 39-53
INTERFACING CAMAC TO A HIGH - SPEED
MULTIPROCESSOR BIT SLICE DATA-
ACQUISITION SYSTEM.
TIC,
1984. 8P. MN (LA-UR-84-1047)
GEISIK, CARL (AT-2)
- 39-54
INTERNALLY CONTRACTED MCSCF-SCEF
CALCULATIONS.
ADVANCED THEORIES AND COMPUTATIONAL
APPROACHES TO THE ELECTRONIC
STRUCTURE OF MOLECULES. C. E.
DYKSTRA, ED., P.79-103. D. REIDEL,
1984.
WERNER, HANS-JOACHIM (T-12)
REINSCH, ERNST-ALBRECHT
- 39-55
INVARIANCE PROPERTIES IN HERMITE - PADE
APPROXIMATION THEORY.
J. COMPUT. APPL. MATH.,
V.11, P.49-55. 1984.
BAKER, GEORGE A., JR. (T-11)
- 39-56
INVENTORY VERIFICATION USING THE
INSPECTOR'S SUFFICIENT STATISTICS.
MATHEMATICAL AND STATISTICAL METHODS
IN NUCLEAR SAFEGUARDS. F. ARGENTESI,
ET AL., P.351-83. HARWOOD ACADEMIC
PUBLISHERS, 1983. (621.483/M426ST)
SHIPLEY, JAMES P., JR. (Q-DO/SG)
- 39-57
INVESTIGATION OF AN EMPIRICAL
PROBABILITY MEASURE BASED TEST
FOR MULTIVARIATE NORMALITY.
TIC,
1984. 33P. MN (LA-UR-84-1499)
BOOKER, JANE M. (S-1)
JOHNSON, MARK E. (S-1)
BECKMAN, RICHARD J. (S-1)
- 39-58
KRAK - A COMPUTER PROGRAM FOR TWO
PHASE, TWO - COMPONENT POROUS FLOW
AND FRACTURE.
LOS ALAMOS,
1984. 95P. (LA-09703)
TRAVIS, BRYAN J. (ESS-5)
DAVIS, ALVIN H. (CMB-9)
KUNKLE, THOMAS D. (ESS-5)
DEUPREE, ROBERT G. (ESS-5)
- 39-59
LAMPF NUCLEAR CHEMISTRY DATA
ACQUISITION SYSTEM.
DIGITAL EQUIPMENT COMPUTER USERS
SOCIETY. SYMPOSIUM, 1983, LAS VEGAS.
PROC., P.251-8. DECUS, 1983.
ALSO PUBLISHED IN:
TIC,
1983. 10P. MN (LA-UR-83-3410)
GIESLER, GREGG CARL (CNC-11)
- 39-60
LEARNING ABOUT SUPERCOMPUTERS ON A
MICROCOMPUTER WITH NO KEYBOARD - A
SCIENCE MUSEUM EXHIBIT.
TIC,
1984. 9P. MN (LA-UR-83-2885)
STODDARD, MARY L. (C-10)
BUZBEE, BILLY L. (C-DO)
- 39-61
LINEAR CHARACTERISTIC - NODAL TRANSPORT
METHOD FOR THE TWO-DIMENSIONAL (X,Y)-
GEOMETRY MULTIGROUP DISCRETE ORDINATES
EQUATIONS OVER ARBITRARY TRIANGLE MESH.
LOS ALAMOS,
1984. 127P. (LA-10092-T)
PATERNOSTER, RICHARD R. (X-7)
- 39-62
LINEAR TRANSPORT IN NONHOMOGENEOUS
MEDIA III.
J. MATH. PHYS.,
V.25, P.1511-8. 1984.
DANIEL, R.
POMRANING, GERALD C. (X-7)
LARSEN, EDWARD W. (X-6)
- 39-63
LINEAR TRANSPORT IN NONHOMOGENEOUS
MEDIA.
TRANSP. THEORY STAT. PHYS.,
V.13, P.511-9. 1984.
LARSEN, EDWARD W. (X-6)
- 39-64
LINER PACKAGE - AN INCIPIENT MHD
CAPABILITY FOR CCUBE.
LOS ALAMOS,
1984. 6P. (LA-09969-MS)
GISLER, GALEN (X-8)
FAEHL, R. J. (X-8)

- 39-65
LONG RANGE PLANNING COMMITTEE FOR LAMPF
COMPUTING NEEDS REPORT.
LOS ALAMOS,
1984. 29P. (LA-10103-MS)
HOEHN, MARTHA V. (MP-13)
AMANN, JAMES F. (MP-10)
BUTLER, HAROLD S. (MP-1)
DAWSON, W. K. (MP-1)
HOFFMAN, EARL WAYNE (MP-1)
HOFFEIZER, J.
KALETKA, M.
KINNISON, W. WAYNE (P-DO)
KOZLOWSKI, THOMAS (MP-10)
MC NAUGHTON, MICHAEL W. (MP-13)
MISCHKE, RICHARD E. (MP-4)
OOTHOUTD, M. A. (MP-1)
POORE, RAY V. (P-9)
SHERA, E. BROOKS (P-3)
TURPIN, S. E.
WOUTERS, JAN M. (INC-11)
- 39-66
LONG-RANGE PERCOLATION IN ONE
DIMENSION.
J. PHYS. A,
V.17, P.2349-50. 1984.
SPOUGE, JOHN L. (T-10)
- 39-67
LOS ALAMOS NATIONAL LABORATORY COMPUTER
BENCHMARKING, 1983.
LOS ALAMOS,
1984. 15P. (LA-10151-MS)
GRIFFIN, JAMES HARPER (C-10)
SIMMONS, MARGARET L. (C-10)
- 39-68
LOS ALAMOS REAL-TIME AND DIGITAL
RADIOGRAPHY PLANS.
TIC,
1983. 4P. MN (LA-UR-83-3477)
STRONG, RONALD DEAN (WX-3)
- 39-69
MECA - A SUPERCOMPUTER FOR MONTE CARLO.
LOS ALAMOS,
1984. 5P. (LA-10005)
SOLEM, JOHNDALE C. (T-DO)
- 39-70
MODELING THE USER IN INTELLIGENT
USER INTERFACES.
TIC,
1983. 9P. MN (LA-UR-83-1392)
STODDARD, MARY L. (C-10)
DOUGLASS, ROBERT J. (C-10)
- 39-71
MONTE - CARLO METHOD FOR QUANTUM
BOLTZMANN STATISTICAL MECHANICS.
J. CHEM. PHYS.,
V.80, P.2239-40. 1984.
DOLL, JIMMIE D. (CHM-2)
FREEMAN, DAVID L. (CHM-2)
- 39-72
MONTE CARLO METHOD FOR QUANTUM
BOLTZMANN STATISTICAL MECHANICS
USING FOURIER REPRESENTATIONS OF
PATH INTEGRALS.
J. CHEM. PHYS.,
V.80, P.5709-18. 1984.
FREEMAN, DAVID L. (CHM-2)
DOLL, JIMMIE D. (CHM-2)
- 39-73
MONTE CARLO SAMPLING OF COMPTON PHOTON
SCATTERING OFF MOVING ELECTRONS.
TRANS. AM. NUCL. SOC.,
V.47, P.226-8. 1984.
HENDRICKS, JOHN S. (X-6)
BOOTH, THOMAS E. (X-6)
- 39-74
MONTE CARLO VARIANCE COMPARISON FOR
EXPECTED VALUE VERSUS SAMPLED
SPLITTING.
TRANS. AM. NUCL. SOC.,
V.46, P.433. 1984.
BOOTH, THOMAS E. (X-6)
- 39-75
MSS GENERIC MODEL - A BEGINNING.
TIC,
1984. 8P. MN (LA-UR-84-0139)
COLLINS, MAURICE W. (C-8)
MILLER, STEPHEN
- 39-76
MULTIDOMAIN, MULTIRECORD - TYPE
DATATRIEVE - 11 DATABASES.
TIC,
1983. 7P. MN (LA-UR-83-2980)
HORNING, R. R. (C-4)
- 39-77
NECESSARY AND SUFFICIENT CONDITIONS
FOR THE EXISTENCE OF A CONJUGATE
GRADIENT METHOD.
SIAM J. NUMER. ANAL.,
V.21, P.352-62. 1984.
FABER, VANCE (C-3)
MANTEUFFEL, THOMAS (C-3)
- 39-78
NETWORK FILE STORAGE SYSTEM.
TIC,
1983. 10P. MN (LA-UR-83-2678)
COLLINS, MAURICE W. (C-8)
DEVANEY, MARJORIE A. (C-8)
WILLBANKS, EMILY W. (C-8)
- 39-79
NUMERICAL METHODS FOR TRACKING
INTERFACES.
INTL. CONF. OF THE CENTER FOR
NONLINEAR STUDIES, 3RD, 1983,
LOS ALAMOS. PROC., P.396-407.
NORTH-HOLLAND PHYSICS PUBL., 1984.
(530.15/161CE/3RD/1983)
ALSO PUBLISHED IN:
TIC,
1983. 26P. MN (LA-UR-83-3049)
HYMAN, JAMES M. (T-7)
- 39-80
NUMERICAL METHODS FOR TRACKING
INTERFACES.
LOS ALAMOS,
1984. 20P. (LA-09917-MS)
HYMAN, JAMES M. (T-7)
- 39-81
ON THE REACTION ZONE THICKNESS OF
PREMIXED LAMINAR FLAMES.
COMBUST. SCI. TECHNOL.,
V.38, P.337-43. 1984.
O'ROURKE, PETER J. (T-3)
STEIN, LELAND R. (T-3)
- 39-82
ONE - DIMENSIONAL MODEL FOR THREE-
DIMENSIONAL TRANSPORT IN A PIPE.
TRANSP. THEORY STAT. PHYS.,
V.13, P.599-614. 1984.
LARSEN, EDWARD W. (X-6)
- 39-83
ONE-DIMENSIONAL APPROXIMATIONS FOR A
QUADRATIC IKEDA MAP.
PHYS. LETT.,
V.104A, P.59-62. 1984.
CARR, J.
EILBECK, J. CHRIS (CNLS)
- 39-84
OPTIMAL SMOOTHING OF SITE - ENERGY
DISTRIBUTIONS FROM ADSORPTION ISOTHERMS.
TIC,
1983. 11P. MN (LA-UR-83-2848)
BROWN, LEE F. (ESS-5)
TRAVIS, BRYAN J. (ESS-5)
- 39-85
PARALLEL ALGORITHMS.
HAWAII INTL. CONF. ON SYSTEM
SCIENCES, 18TH, 1985, HONOLULU.
PROC., P.1. THE CONF., 1985.
(620.7/H112S/1985/V.2)
ANDERSON, JAMES WAYNE (C-8)
- 39-86
PERCEPTION OF GRAPHIC SYSTEM DATA BASE
PROBLEMS AND NEEDS FROM A NUMERICAL
CONTROL PROGRAMMER'S VIEWPOINT.
TIC,
1984. 21P. MN (LA-UR-84-1526)
MAIER, OTTO A. (MEC-3)
- 39-87
PREDICTING LOW - PROBABILITY/HIGH -
CONSEQUENCE EVENTS.
LOW-PROBABILITY/HIGH-CONSEQUENCE
RISK ANALYSIS.
ISSUES, METHODS, AND CASE STUDIES,
R.A. WALLER, V.T. GOVELLO, EDS.,
P.187-97. PLENUM, 1984.
ALSO PUBLISHED IN:
TIC,
1982. 38P. MN (LA-UR-82-1668)
MARTZ, HARRY F., JR. (S-1)
BRYSON, MAURICE C. (S-1)

39-88
PRELIMINARY USER'S GUIDE FOR BIGONE
ON THE CRAY.

LOS ALAMOS,
1984. 46P. (LA-10183-M)
SNELL, CHARLES M. (X-8)
KWAN, THOMAS J. T. (X-8)

39-89
PROCESSING TIME USING DATATRIEVE - 11,
CLUNKS, AND FORTRAN.

TIC,
1983. 5P. MN (LA-UR-83-2979)
HORNING, R. R. (C-4)
GOODE, WILLIAM R.

39-90
PSEUDO - RANDOM TREES IN MONTE CARLO.
PARALLEL COMPUT.,

V.1, P.175-80. 1984.
FREDERICKSON, PAUL O. (C-3)
HIROMOTO, ROBERT E. (C-3)
JORDAN, THOMAS LEE (C-3)
SMITH, BURTON
WARNOCK, TONY T.

39-91
QKPLT USERS GUIDE, VERSION 2.0.

LOS ALAMOS,
1984. 33P. (LA-10094-M)
BROWNING, RICHARD V. (WX-11)
OAKES, WILLIAM R. (WX-11)
WINKLER, CAROLYN M. (WX-11)

39-92
RADIATION TRANSFER IN VEGETATIVE
CANOPIES AND OTHER LAYERED MEDIA -
RAPIDLY SOLVABLE EXACT INTEGRAL EQUATION
NOT REQUIRING FOURIER RESOLUTION.

J. QUANT. SPECTROSC. RADIAT. TRANSFER
V.31, P.71-82. 1984.
GUTSCHICK, VINCENT P. (LS-6)
WIEGEL, FREDERIK W.

39-93
RECOVER IT YOURSELF WITH USER LOGGING.

TIC,
1984. 11P. MN (LA-UR-83-3290)
WEIR, DIANE (ADP-2)

39-94
REMARKS ON THE KURAMOTO - SIVASHINSKY
EQUATION.

INTL. CONF. OF THE CENTER FOR
NONLINEAR STUDIES, 3RD, 1983,
LOS ALAMOS. PROC., P.391-5.
NORTH-HOLLAND PHYSICS PUBL., 1984.
(530.15/161CE/3RD/1983)

ALSO PUBLISHED IN:
TIC,
1983. 9P. MN (LA-UR-83-2862)
NICOLAENKO, BASIL (T-7/CNLS)
SCHEURER, BRUNO (CNLS)

39-95
REMOTE - MODEM COMMUNICATOR PROGRAM
FOR THE IBM PERSONAL COMPUTER.

LOS ALAMOS,
1984. 17P. (LA-10143-MS)
MC GIRT, A. FRANK (C-8)

39-96
REVIEW OF THE ANSI METAFILE AND
VIRTUAL DEVICE INTERFACE STANDARDIZATION
ACTIVITIES.

TIC,
1983. 9P. MN (LA-UR-83-2257)
REED, THEODORE N. (C-6)

39-97
RFQ SIMULATION CODE.

LINEAR ACCELERATOR CONFERENCE,
1984, SEEHEIM. PROC., P.327-9.
1984. (GSI-84-11)
LYSENKO, WALTER P. (AT-6)

39-98
SAMPLE - SOFTWARE FOR VAX FORTRAN
EXECUTION TIMING.

TIC,
1983. 4P. MN (LA-UR-83-3421)
LOWE, LEWIS H. (WX-11)

39-99
SATELLITE GRAPHICS OUTPUT STATION.

TIC,
1981. 18P. MN (LA-UR-80-3716)
WOLF, RICHARD J. (C-6)

39-100
SEMGROUP ASSOCIATED WITH A QUASI-
LINEAR SYSTEM IN WHICH THE COUPLING IS
LINEAR.

TIC,
1983. 19P. MN (LA-UR-83-3545)
PIMBLEY, GEORGE H. (T-14)

39-101
SEQUENTIAL LIKELIHOOD-RATIO TESTS
APPLIED TO SERIES OF MATERIALS
BALANCES.

MATHEMATICAL AND STATISTICAL METHODS
IN NUCLEAR SAFEGUARDS, F. ARGENTESI,
ET. AL., P.183-212. HARWOOD ACADEMIC
PUBLISHERS, 1983. (621.483/M426ST)
SHIPLEY, JAMES P., JR. (Q-DO/SG)

39-102
SIMPLIFIED ADAPTIVE MESH TECHNIQUE
DERIVED FROM THE MOVING FINITE ELEMENT
METHOD.

J. COMPUT. PHYS.,
V.56, P.324-42. 1984.
DUKOWICZ, JOHN K. (T-3)

39-103
SMILE USERS GUIDE - A MACRO
PREPROCESSOR FOR EXTENDING FORTRAN.

LOS ALAMOS,
1984. 19P. (LA-09862-M)
LOWE, LEWIS H. (WX-11)

39-104
SOLUTION OF ELLIPTIC EQUATIONS USING
FAST POISSON SOLVERS.

J. COMPUT. PHYS.,
V.53, P.382-94. 1984.
BERNHARDT, PAUL A. (ESS-7)
BRACKBILL, JEREMIAH U. (X-1)

39-105
SOLUTION OF MULTIDIMENSIONAL INVERSE
TRANSPORT PROBLEMS.

J. MATH. PHYS.,
V.25, P.131-5. 1984.
LARSEN, EDWARD W. (X-6)

39-106
SOLVING CHEMICAL EQUILIBRIUM PROBLEMS
USING NONLINEAR OPTIMIZATION.

LOS ALAMOS,
1984. 40P. (LA-10116-MS)
PARKINSON, WILLIAM J. (WX-4)
SANDERSON, JAMES G., JR. (X-7)

39-107
SOLVING VERY LARGE ELLIPTIC PROBLEMS
ON A SUPERCOMPUTER WITH SOLID STATE
DISK.

J. COMPUT. PHYS.,
V.55, P.340-5. 1984.
BUCHER, INGRID Y. (C-3)
JORDAN, THOMAS LEE (C-3)

39-108
SPECIAL FUNCTIONS AND GROUP THEORY IN
THEORETICAL PHYSICS.

SPECIAL FUNCTIONS — GROUP
THEORETICAL ASPECTS AND APPLICATIONS,
R.A. ASKEY, T.H. KOORNWINDER AND
W. SCHEMPP, ED., P.129-62. D. REIDEL
PUBL., 1984. (515.9/S741FU)

ALSO PUBLISHED IN:
TIC,
1983. 36P. MN (LA-UR-83-2162)
BIEDENHARN, LAWRENCE C.
GUSTAFSON, R. A.
LOHE, MAX A.
LOUCK, JAMES D. (T-7)
MILNE, S. C.

39-109
STABILITY OF PLANAR MULTIFLUID PLASMA
EQUILIBRIA BY ARNOLD'S METHOD.

TIC,
1983. 27P. MN (LA-UR-83-3523)
HOLM, DARRYL D. (CNLS)

39-110
STATE SPACE METHOD OF FAULT TREE
ANALYSIS WITH APPLICATIONS.

LOS ALAMOS,
1984. 186P. (LA-10298-T)
BARTHOLOMEW, ROBERT J. (Q-12)

39-111
SUPERSPACE APPROACH TO LATTICE
SUPERSYMMETRY.

J. MATH. PHYS.,
V.25, P.2744-7. 1984.
KOSTELECKY, VACLAV ALAN (T-8)
RABIN, JEFFREY M.

39-112
TRACE - AN INTERACTIVE BEAM - TRANSPORT
CODE.

LINEAR ACCELERATOR CONFERENCE,
1984, SEEHEIM. PROC., P.371-3.
1984. (GSI-84-11)
CRANDALL, KENNETH R. (AT-1)
RUSTHOI, DANIEL P. (AT-2)

39-113
TRACR3D - A MODEL OF FLOW AND TRANSPORT
IN POROUS/FRACTURED MEDIA.
LOS ALAMOS,
1984. 190P. (LA-09667-MS)
TRAVIS, BRYAN J. (ESS-5)

39-114
TRANIO - A SUBROUTINE PACKAGE FOR THE
IBM PERSONAL COMPUTER TO SUPPORT THE
TRANSIAC 6002 CAMAC CRATE CONTROLLER.
LOS ALAMOS,
1984. 13P. (LA-10145-MS)
MC GIRT, A. FRANK (C-9)

39-115
TRANSX - CTR, A CODE FOR INTERFACING
MATXS CROSS-SECTION LIBRARIES TO
NUCLEAR TRANSPORT CODES FOR FUSION
SYSTEMS ANALYSIS.
LOS ALAMOS,
1984. 96P. (LA-09863-MS)
MAC FARLANE, ROBERT E. (T-2)

39-116
TVENT1P USERS MANUAL, A COMPUTER CODE
FOR ANALYZING TORNADO - INDUCED GAS-
DYNAMIC TRANSIENTS IN FLOW NETWORKS.
LOS ALAMOS,
1984. 148P. (LA-10237-MS)
ANDRAE, RICHARD W. (Q-6)
TANG, P. K. (X-7)
GREGORY, WILLIAM S. (Q-6)

39-117
U - THE UNIVERSAL UTILITY CONTROLLER,
REVISION 1.
LOS ALAMOS,
1984. 44P. (LA-09701-M, REV. 1)
SNELL, CHARLES M. (X-8)

39-118
USER'S GUIDE FOR TWODANT - A CODE
PACKAGE FOR TWO - DIMENSIONAL,
DIFFUSION - ACCELERATED, NEUTRAL-
PARTICLE, TRANSPORT.
LOS ALAMOS,
1984. 41P. (LA-10049-M)
ALCOUFFE, RAYMOND E. (X-6)
BRINKLEY, F. W., JR. (X-6)
MARR, DUANE R. (X-6)
O'DELL, R. DOUGLAS (X-6)

39-119
USER'S GUIDE FOR TWODANT - A CODE
PACKAGE FOR TWO - DIMENSIONAL,
DIFFUSION - ACCELERATED, NEUTRAL-
PARTICLE TRANSPORT, REV. 1.
LOS ALAMOS,
1984. PAGED IN SECTIONS.
(LA-10049-M, REV. 1)
ALCOUFFE, RAYMOND E. (X-6)
BRINKLEY, F. W., JR. (X-6)
MARR, DUANE R. (X-6)
O'DELL, R. DOUGLAS (X-6)

39-120
USER'S GUIDE FOR TWOHEX - A CODE
PACKAGE FOR TWO - DIMENSIONAL, NEUTRAL-
PARTICLE, TRANSPORT IN EQUILATERAL
TRIANGULAR MESHES.
LOS ALAMOS,
1984. PAGED IN SECTIONS. (LA-10258-M)
WALTERS, WALLACE F. (X-6)
BRINKLEY, F. W., JR. (X-6)
MARR, DUANE R. (X-6)

39-121
USER'S GUIDE TO SENSITIVITY TESTING
ON COMPUTER MODELS AT LOS ALAMOS
NATIONAL LABORATORY.
LOS ALAMOS,
1984. 73P. (LA-10104-M)
WILLIAMS, DONNA S. (S-2)

39-122
USER'S MANUAL FOR GRIZZLY.
LOS ALAMOS,
1984. 78P. (LA-10244-M)
ABDALLAH, JOSEPH (T-4)

39-123
USING INGRES AS A RAPID PROTOTYPING
DEVICE DURING DEVELOPMENT OF MANAGEMENT
INFORMATION APPLICATIONS.
TIC,
1983. 24P. MN (LA-UR-83-1893)
BRICE, LINDA (ADP-2)
CONNELL, JOHN L. (ADP-2)
SHAFFER, DONALD F. (ADP-2)

39-124
VARIATIONAL METHOD FOR ADAPTIVE GRID
GENERATION.
TIC,
1983. 11P. MN (LA-UR-83-2493)
BRACKBILL, JEREMIAH U. (X-1)

39-125
VARIATIONS IN TASK AND THE IDEAL
OBSERVER.
APPLICATION OF OPTICAL
INSTRUMENTATION IN MEDICINE XI,
1983, ATLANTA, PROC., P. 60-7,
SPIE, 1983. (616.075/A6520/1983)
ALSO PUBLISHED IN:
TIC,
1983. 9P. MN (LA-UR-83-2166)
HANSON, KENNETH M. (M-4)

39-126
VECTORIZATION OF ALGORITHMS FOR SOLVING
SYSTEMS OF ELLIPTIC DIFFERENCE
EQUATIONS.
AMERICAN SOCIETY OF MECHANICAL
ENGINEERS. WINTER MEETING, 1983,
BOSTON. PROC., P.81-6. ASME, 1983.
ALSO PUBLISHED IN:
TIC,
1983. 9P. MN (LA-UR-83-1761)
BUZBEE, BILLY L. (C-DO)

39-127
VISAR - THINGS YOU SHOULD KNOW.
HIGH SPEED PHOTOGRAPHY, VIDEOGRAPHY,
AND PHOTONICS, 1983, SAN DIEGO.
PROC., P.144-8. SPIE, 1983.
(778.37/H638SP/1983)
ALSO PUBLISHED IN:
TIC,
1983. 6P. MN (LA-UR-83-2291)
HEMSING, WILLARD F. (M-7)

39-128
VISAR - 2 1/2 MINUTES FOR DATA
REDUCTION.
HIGH SPEED PHOTOGRAPHY, VIDEOGRAPHY,
AND PHOTONICS, 1983, SAN DIEGO.
PROC., P.199-202. SPIE, 1983.
(778.37/H638SP/1983)
ALSO PUBLISHED IN:
TIC,
1983. 5P. MN (LA-UR-83-2290)
HEMSING, WILLARD F. (M-7)

39-129
VORT - A COMPUTER CODE FOR BUBBLY
TWO - PHASE FLOW.
LOS ALAMOS,
1984. 94P. (LA-10021-MS)
COOK, THOMAS L. (ESS-5)
HARLOW, FRANCIS H. (T-3)

39-130
ZTL - A SUBROUTINE PACKAGE FOR THE IBM
PERSONAL COMPUTER TO SUPPORT THE ZIATECH
ZT1488 IEEE - 488 CONTROLLER.
LOS ALAMOS,
1984. 17P. (LA-10141-MS)
MC GIRT, A. FRANK (C-9)
MOORE, KURT R. (ESS-10)

39-131
ZTLCK - A SUBROUTINE PACKAGE FOR THE
IBM PERSONAL COMPUTER TO SUPPORT THE
ZIATECH ZT1488 REAL TIME CLOCK.
LOS ALAMOS,
1984. 8P. (LA-10146-MS)
MC GIRT, A. FRANK (C-9)

39-132
6TH BIENNIAL CUBE (COMPUTER USE BY
ENGINEERS) SYMPOSIUM.
OCTOBER 10-12, 1984.
LOS ALAMOS,
1984. 114P. (LA-10240-C)
STRAIGHT, J. W. (WX-8)

40. NUCLEAR PROPULSION SYSTEMS AND AEROSPACE SAFETY

- 40-1
EXPERIMENTAL INVESTIGATIONS OF
238 PLUTONIUM BEHAVIOR IN SOIL
COLUMNS.
LOS ALAMOS,
1984. 16P. (LA-10096-MS)
NELSON, G. B.
HERRERA, BENJIMEN (ENG-4)
STALNAKER, NELSON D. (CHM-1)
COFFELT, K. P. (CHM-1)
PATTERSON, JAMES H. (CHM-1)
HEATON, RICHARD C. (CHM-1)
MATLACK, GEORGE M. (CHM-1)
- 40-2
GENERAL - PURPOSE HEAT SOURCE
DEVELOPMENT - SAFETY TEST PROGRAM
POSTIMPACT EVALUATION, DESIGN
ITERATION TEST 1.
LOS ALAMOS,
1984. 67P. (LA-09680-SR)
SCHONFELD, FRED W. (CMB-5)
- 40-3
GENERAL - PURPOSE HEAT SOURCE
DEVELOPMENT, SAFETY TEST PROGRAM,
POSTIMPACT EVALUATION, DESIGN
ITERATION TEST 2.
LOS ALAMOS,
1984. 49P. (LA-10012-SR)
SCHONFELD, FRED W. (MST-5)
GEORGE, TIMOTHY G. (MST-5)
- 40-4
GENERAL - PURPOSE HEAT SOURCE
DEVELOPMENT - SAFETY TEST PROGRAM
POSTIMPACT EVALUATION, DESIGN
ITERATION TEST 3.
LOS ALAMOS,
1984. 42P. (LA-10034-SR)
SCHONFELD, FRED W. (MST-5)
GEORGE, TIMOTHY G. (MST-5)
- 40-5
GENERAL - PURPOSE HEAT SOURCE
DEVELOPMENT - SAFETY TEST PROGRAM - POST
IMPACT EVALUATION, DESIGN ITERATION
TEST 4.
LOS ALAMOS,
1984. 28P. (LA-10217-SR)
GEORGE, TIMOTHY G. (MST-5)
SCHONFELD, FRED W. (MST-5)
- 40-6
GENERAL - PURPOSE HEAT SOURCE
DEVELOPMENT - SAFETY TEST PROGRAM
POST IMPACT EVALUATION, DESIGN
ITERATION TEST 5.
LOS ALAMOS,
1984. 34P. (LA-10232-SR)
GEORGE, TIMOTHY G. (MST-5)
SCHONFELD, FRED W. (MST-5)
- 40-7
HEAT PIPE TECHNOLOGY ISSUES.
TIC,
1984. 29P. MN (LA-UR-84-1238)
MERRIGAN, MICHAEL A. (Q-13)
- 40-8
LONG - TERM EXPOSURE OF PRESSED
PLUTONIUM OXIDE HEAT SOURCES TO
AQUATIC ENVIRONMENTS.
LOS ALAMOS,
1984. 13P. (LA-10197-MS)
HEATON, RICHARD C. (CHM-1)
PATTERSON, JAMES H. (CHM-1)
KOSIEWICZ, STANLEY T. (CHM-1)
MATLACK, GEORGE M. (CHM-1)
STEINKRUGER, FREDERICK J. (INC-3)
NELSON, GILBERT B. (CMB-1)
VANDERBORGH, NICHOLAS E. (E-11)
COFFELT, K. P. (CHM-1)
HERRERA, BENJIMEN (ENG-4)
- 40-9
MATERIALS REQUIREMENTS FOR THE SP - 100
PROGRAM.
TRANS. AM. NUCL. SOC.,
V.46, P.331. 1984.
HANSON, J. E.
- 40-10
NUCLEAR SPACE POWER SYSTEMS FOR ORBIT
RAISING AND MANEUVERING.
ORBIT-RAISING AND MANEUVERING
PROPULSION - RESEARCH STATUS AND
NEEDS, L.H. CAVENY, ED., P.425-59.
AMER. INST. OF AERONAUTICS AND
ASTRONAUTICS, INC., (629.1/O64RA)
BUDEN, DAVID (DAD/NP)
SULLIVAN, J. A (DAD/NP)
- 40-11
SPACE NUCLEAR SAFETY PROGRAM
JANUARY 1984.
LOS ALAMOS,
1984. 23P. (LA-10162-PR)
BRONISZ, STANLEY E. (MST-5)
- 40-12
SPACE NUCLEAR SAFETY PROGRAM,
AUGUST 1983.
LOS ALAMOS,
1984. 7P. (LA-09980-PR)
BRONISZ, STANLEY E. (MST-5)
- 40-13
SPACE NUCLEAR SAFETY PROGRAM,
SEPTEMBER 1983.
LOS ALAMOS,
1984. 10P. (LA-10000-PR)
BRONISZ, STANLEY E. (MST-5)
- 40-14
SPACE NUCLEAR SAFETY PROGRAM,
NOVEMBER 1983.
LOS ALAMOS,
1984. 33P. (LA-10126-PR)
BRONISZ, STANLEY E. (MST-5)
- 40-15
SPACE NUCLEAR SAFETY PROGRAM,
DECEMBER 1983.
LOS ALAMOS,
1984. 16P. (LA-10134-PR)
BRONISZ, STANLEY E. (MST-5)
- 40-16
SPACE NUCLEAR SAFETY PROGRAM,
FEBRUARY 1984.
LOS ALAMOS,
1984. 24P. (LA-10190-PR)
BRONISZ, STANLEY E. (MST-5)
- 40-17
SPACE REACTOR FUELS PERFORMANCE AND
DEVELOPMENT ISSUES.
TIC,
1984. 7P. MN (LA-UR-84-1381)
WEWERKA, EUGENE M. (MST-DO)

42. NUCLEAR WASTE MANAGEMENT

42-1
AMERICIUM THERMODYNAMIC DATA FOR THE
EQ3/6 DATABASE.
LOS ALAMOS,
1984. 39P. (LA-10040-MS)
KERRISK, JERRY F. (WX-4)

42-2
CESIUM AS AN ACTIVATABLE TRACER FOR
STUDYING BIOLOGICAL INTRUSION OF PLANT
ROOTS INTO WASTE BURIAL AREAS.
J. RADIOANAL. NUCL. CHEM.,
V.84, P.423-9. 1984.
GLADNEY, E. S. (H-8)
HAKONSON, THOMAS E. (LS-6)
MULLER, MARCIA (H-8)

42-3
DISTRIBUTION OF RADIONUCLIDES AND WATER
IN BANDELIER TUFF BENEATH A FORMER LOS
ALAMOS LIQUID WASTE DISPOSAL SITE AFTER
33 YEARS.
LOS ALAMOS,
1984. 51P. (LA-10159-LLWM)
NYHAN, JOHN W. (LS-6)
DRENNON, BARRY J. (LS-6)
ABEELE, WILLY V. (LS-6)
TRUJILLO, GEORGE (LS-6)
HERRERA, WILFRED J. (LS-6)
WHEELER, MERLIN L. (LS-6)
BOOTH, JOHN W. (MST-6)
PURTYMUN, WILLIAM D. (HSE-8)

42-4
EFFECTS OF EXCHANGEABLE CATION
COMPOSITION ON THE THERMAL EXPANSION/
CONTRACTION OF CLINOPTILOLITE.
CLAYS CLAY MINER.,
V.32, P.444-51. 1984.
BISH, DAVID L. (ESS-2)

42-5
FIELD STUDIES AND MODELING OF CHEMICAL
PROCESSES IN THE UNSATURATED ZONE.
TIC,
1983. 10P. MN (LA-UR-83-2591)
DE POORTER, GERALD L. (LS-6)
LANGHORST, GARY J. (LS-6)
STEGER, JAMES G. (LS-6)

42-6
FIELD STUDIES OF EROSION CONTROL
TECHNOLOGIES FOR ARID SHALLOW LAND
BURIAL SITES AT LOS ALAMOS.
TIC,
1983. 11P. MN (LA-UR-83-2590)
NYHAN, JOHN W. (LS-6)
ABEELE, WILLY V. (LS-6)
DE POORTER, GERALD L. (LS-6)
HAKONSON, THOMAS E. (LS-6)
PERKINS, BETTY A. (LS-6)
FOSTER, GEORGE R. (LS-6)

42-7
GEOTECHNICAL ASPECTS OF HACKROY SANDY
LOAM AND CRUSHED TUFF.
LOS ALAMOS,
1984. 20P. (LA-09916-MS)
ABEELE, WILLY V. (LS-6)

42-8
GEOTECHNICAL CHARACTERISTICS OF
BENTONITE/SANDY SILT MIXES FOR
USE IN WASTE DISPOSAL SITES.
LOS ALAMOS,
1984. 10P. (LA-10101-MS)
ABEELE, WILLY V. (LS-6)

42-9
GROUNDWATER CHEMISTRY ALONG FLOW PATHS
BETWEEN A PROPOSED REPOSITORY SITE AND
THE ACCESSIBLE ENVIRONMENT.
LOS ALAMOS,
1984. 48P. (LA-10188-MS)
OGARD, ALLEN E. (INC-7)
KERRISK, JERRY F. (WX-4)

42-10
INFLUENCE OF SOIL BIOPOPULATION ON
MIGRATION OF WASTE RADIONUCLIDES.
TIC,
1983. 9P. MN (LA-UR-83-3385)
FOWLER, ERIC B. (LS-6)
POLZER, WILFRED L. (LS-6)
ESSINGTON, EDWARD H. (LS-6)

42-11
LABORATORY AND FIELD STUDIES RELATED TO
THE RADIONUCLIDE MIGRATION PROJECT.
OCTOBER 1, 1982 - SEPTEMBER 30, 1983.
LOS ALAMOS,
1984. 33P. (LA-10121-PR)
DANIELS, WILLIAM R. (INC-11)
THOMPSON, JOE L. (INC-11)

42-12
LOS ALAMOS CONTROLLED AIR INCINERATION
STUDIES.
TIC,
1983. 15P. MN (LA-UR-83-3024)
KONIG, RALPH A., JR. (H-7)
WARNER, CHARLES L. (H-7)

42-13
NEW CONTINUOUSLY MONITORED COLLECTION
SYSTEM FOR LIQUID INDUSTRIAL WASTES.
J. WATER POLLUT. CONTROL FED.,
V.56, P.1192-8. 1984.
EMELTY, LUDGARD A. (HSE-7)
SANDERS, WILLIAM MORT (HSE-7)
GARDE, RAYMOND (HSE-7)
BUCHHOLZ, JERRY R. (HSE-7)

42-14
NUMERICAL SIMULATION OF FLOW AND
TRANSPORT IN FRACTURED TUFF.
MATERIALS RESEARCH SOCIETY SYMPOSIA,
1983, BOSTON. PROC., P.1039-46.
ELSEVIER, 1984.
TRAVIS, BRYAN J. (ESS-5)
HODSON, STEPHEN W. (ESS-5)
NUTTALL, HERBERT E.
COOK, THOMAS L. (ESS-5)
RUNDBERG, ROBERT S. (INC-11)

42-15
NUMERICAL SIMULATION OF FLOW AND
TRANSPORT IN PARTIALLY SATURATED,
FRACTURED TUFF.
TIC,
1983. 17P. MN (LA-UR-83-3341)
TRAVIS, BRYAN J. (ESS-5)
HODSON, STEPHEN W. (ESS-5)
COOK, THOMAS L. (ESS-5)
NUTTALL, HERBERT, E.
RUNDBERG, ROBERT S. (INC-11)

42-16
PERMEABILITY CHANGES DURING TIME-
DEPENDENT DEFORMATION OF SILICATE
ROCK.
GEOPHYS. RES. LETT.,
V.11, P.975-8. 1984.
KRANZ, ROBERT
BLACIC, JAMES D. (ESS-3)

42-17
PETROGRAPHY AND MINERAL CHEMISTRY OF
UNITS OF THE TOPOPAH SPRING, CALICO
HILLS AND CRATER FLAT TUFFS, AND
OLDER VOLCANIC UNITS, WITH EMPHASIS
ON SAMPLES FROM DRILL HOLE USW G-1,
YUCCA MOUNTAIN, NEVADA TEST SITE.
LOS ALAMOS,
1984. 78P. (LA-10003-MS)
WARREN, RICHARD G. (ESS-2)
BYERS, FRANK M. (ESS-1)
CAPORUSCIO, FLORIE A. (ESS-1)

42-18
PETROLOGY OF SAMPLES FROM DRILL HOLES
USW - H3, H4, H5, YUCCA MOUNTAIN,
NEVADA.
LOS ALAMOS,
1984. 76P. (LA-09706-MS)
LEVY, SCHON S. (ESS-1)

42-19
PLANT UPTAKE ASSAY TO DETERMINE
BIOAVAILABILITY OF INORGANIC
CONTAMINANTS.
WATER AIR SOIL POLLUT.,
V.22, P.85-93. 1984.
DRESEN, DAVID R. (LS-6)
COKAL, EDWARD J. (LS-6)

42-20

RESEARCH AND DEVELOPMENT RELATED TO THE NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS, JULY 1 — SEPTEMBER 30, 1983.

LOS ALAMOS,
1984. 100P. (LA-10006-PR)
BRYANT, ERNEST A. (CNC-7)
VANIMAN, DAVID T. (ESS-1)

42-21

RESEARCH AND DEVELOPMENT RELATED TO THE NEVADA NUCLEAR WASTE STORAGE INVESTIGATIONS, OCTOBER 1 - DECEMBER 31, 1983.

LOS ALAMOS,
1984. 76P. (LA-10032-PR)
WOLFSBERG, KURT (INC-7)
VANIMAN, DAVID T. (ESS-1)

42-22

ROOTING DEPTHS OF PLANTS ON LOW LEVEL WASTE DISPOSAL SITES.

LOS ALAMOS,
1984. 23P. (LA-10253-MS)
FOXX, TERALENE S. (LS-6)
TIERNEY, GAIL D. (LS-6)
WILLIAMS, JOEL M. (MST-6)

42-23

ROOTING DEPTHS OF PLANTS RELATIVE TO BIOLOGICAL AND ENVIRONMENTAL FACTORS.

LOS ALAMOS,
1984. 26P. (LA-10254-MS)
FOXX, TERALENE S. (LS-6)
TIERNEY, GAIL D. (LS-6)
WILLIAMS, JOEL M. (MST-6)

42-24

SHALLOW LAND BURIAL TECHNOLOGY — ARID. TIC,

1983. 15P. MN (LA-UR-83-2589)
ABEELE, WILLY V. (LS-6)
DE POORTER, GERALD L. (LS-6)
HAKONSON, THOMAS E. (LS-6)
NYHAN, JOHN W. (LS-6)

42-25

SOLUBILITY LIMITS ON RADIONUCLIDE DISSOLUTION AT A YUCCA MOUNTAIN REPOSITORY.

LOS ALAMOS,
1984. 54P. (LA-09995-MS)
KERRISK, JERRY F. (WX-4)

42-26

STUDIES OF ALTERED VITROPHYRE FOR THE PREDICTION OF NUCLEAR WASTE REPOSITORY INDUCED THERMAL ALTERATION AT YUCCA MOUNTAIN, NEVADA.

TIC,
1983. 9P. MN (LA-UR-83-3402)
LEVY, SCHON S. (ESS-1)

42-27

SURFACE WATER MANAGEMENT - A USER'S GUIDE TO CALCULATE A WATER BALANCE USING THE CREAMS MODEL.

LOS ALAMOS,
1984. 49P. (LA-10177-M)
LANE, LEONARD J. (LS-6)

42-28

THERMAL STABILIZATION OF URANIUM MILL TAILINGS.

ENVIRON. SCI. TECHNOL.,
V.18, P.658-67. 1984.
DREESEN, DAVID R. (LS-6)
COKAL, EDWARD J. (LS-6)
WANGEN, LAWRENCE E. (CHM-1)
WILLIAMS, JOEL M. (LS-6)
THODE, EDWARD F.

42-29

VARIATIONS IN AUTHIGENIC MINERALOGY AND SORPTIVE ZEOLITE ABUNDANCE AT YUCCA MOUNTAIN, NEVADA, BASED ON STUDIES OF DRILL CORES USW GU - 3 AND G - 3.

LOS ALAMOS,
1984. 71P. (LA-09707-MS)
VANIMAN, DAVID T. (ESS-1)
BISH, DAVID L. (ESS-2)
BROXTON, DAVID E. (ESS-2)
BYERS, FRANK M. (ESS-1)
HEIKEN, GRANT H. (ESS-1)
CARLOS, ROBERT C. (ESS-7)
SEMARGE, R. ELLEN (ESS-2)
CAPORUSCIO, FLORIE A. (ESS-1)
GOOLEY, RONALD C. (ESS-2)

42-30

WATER AND CONTAMINANT MOVEMENT MIGRATION BARRIERS.

LOS ALAMOS,
1984. 19P. (LA-10242-MS)
LANE, LEONARD J. (LS-6)
NYHAN, JOHN W. (LS-6)

43. OIL SHALES AND TAR SANDS

43-1
ASPEN SIMULATION OF OIL SHALE RETORT
OFF-GAS CLEANUP WITH VENTURI
SCRUBBERS.
LOS ALAMOS,
1984. 14P. (LA-10044-MS)
PHILLIPS, THOMAS TERRENCE (WX-4)

43-2
ECONOMIC COMPARISON OF FIVE PROCESS
CONCEPTS FOR USING EASTERN OIL SHALE.
TIC,
1984. 21P. MN (LA-UR-83-3041)
PARKINSON, WILLIAM J. (WX-4)
PHILLIPS, THOMAS TERRENCE (WX-4)
BARNES, JAMES W. (WX-4)

43-3
ECONOMIC COMPARISON OF FIVE PROCESS
CONCEPTS FOR USING EASTERN OIL SHALE.
LOS ALAMOS,
1984. 102P. (LA-10106-MS)
PARKINSON, WILLIAM J. (WX-4)
PHILLIPS, THOMAS TERRENCE (WX-4)
BARNES, JAMES W. (Q-4)

43-4
ROLE OF COMPUTER SIMULATION IN OIL
SHALE BLASTING.
TIC,
1984. 8P. MN (LA-UR-84-1069)
ADAMS, THOMAS F. (ESS-5)
KELLER, CHARLES F. (ESS-5)

43-5
STATISTICAL CRACK MECHANICS.
TIC,
1983. 21P. MN (LA-UR-83-1705)
DIENES, JOHN K. (T-3)

43-6
SUMMARY OF THE OIL SHALE FRAGMENTATION
PROGRAM AT ANVIL POINTS MINE, COLORADO.
TIC,
1984. 26P. MN (LA-UR-84-1558)
DICK, RICHARD DEAN (ESS-3)
YOUNG, CHAPMAN
FOURNEY, WILLIAM L.

44. PARTICLE ACCELERATORS AND HIGH VOLTAGE MACHINES

- 44-1**
ACCELERATOR TECHNOLOGY PROGRAM,
JULY - DECEMBER 1982.
LOS ALAMOS,
1984. 88P. (LA-10118-SR)
JAMESON, ROBERT A. (AT-DO)
- 44-2**
ACCELERATOR TECHNOLOGY PROGRAM,
JANUARY - SEPTEMBER 1983.
LOS ALAMOS,
1984. 85P. (LA-10191-SR)
JAMESON, ROBERT A. (AT-DO)
- 44-3**
APPLYING ACCELERATOR REMOTE TECHNOLOGY
TO FUSION DEVICES.
TRANS. AM. NUCL. SOC.,
V.44, P.571-2. 1983.
ALSO PUBLISHED IN:
TIC,
1983. 11P. MN (LA-UR-83-1558)
ALSO PUBLISHED IN:
CONFERENCE ON REMOTE SYSTEMS
TECHNOLOGY, 31ST, 1983, DETROIT.
PROC., P.55-8. ANS, 1984.
GRISHAM, DONALD L. (MP-7)
LAMBERT, JAMES E. (MP-7)
- 44-4**
ARCHSIM - A PROTON SYNCHROTRON TRACKING
PROGRAM INCLUDING LONGITUDINAL SPACE
CHARGE.
TIC,
1983. 7P. MN (LA-UR-83-2703)
THIESSEN, HENRY A. (MP-DO)
WARREN, JOHN L. (AT-6)
- 44-5**
BEAM CAVITY INTERACTION.
LINEAR ACCELERATOR CONFERENCE,
1984, SEEHEIM. PROC., P.265-7.
1984. (GSI-84-11)
GLUCKSTERN, ROBERT L.
COOPER, RICHARD K. (AT-6)
- 44-6**
BEAM PIPE DESIGN, WALL - HEATING, AND
COLLECTIVE INSTABILITY CONSTRAINTS FOR
LAMPF II.
LOS ALAMOS,
1984. 5P. (LA-10223-MS)
NEUFFER, DAVID (AT-6)
- 44-7**
DESIGN FEATURES AND PERFORMANCE OF THE
LAMPF HIGH INTENSITY BEAM AREA.
TIC,
1983. 7P. MN (LA-UR-83-2693)
AGNEW, LEWIS E., JR. (MP-DO)
GRISHAM, DONALD L. (MP-7)
MACEK, ROBERT J. (MP-13)
SOMMER, WALTER F., JR. (MP-13)
WERBECK, RICHARD D. (MP-7)
- 44-8**
DESIGN OF FERRITE - TUNED ACCELERATOR
CAVITIES USING PERPENDICULAR - BIASED
HIGH - Q FERRITES.
LOS ALAMOS,
1984. 18P. (LA-10277-MS)
KASPAR, KLAUS
- 44-9**
DESIGNING SELF - MATCHING LINACS.
LINEAR ACCELERATOR CONFERENCE,
1984, SEEHEIM, PROC., P.112-4.
1984. (GSI-84-11)
MILLS, RENE SCOTT (AT-2)
CRANDALL, KENNETH R. (AT-1)
FARRELL, JOHN ALDEN (AT-2)
- 44-10**
DEVELOPING A 500 EV PROTON BEAM.
POLARIZED PROTON ION SOURCES, 1983,
VANCOUVER. PROC., P.82-93. AMER.
INST. OF PHYSICS, 1984.
(539.72/P762PR/1983)
ALSO PUBLISHED IN:
TIC,
1983. 13P. MN (LA-UR-83-1466)
CHAMBERLIN, EDWIN P. (MP-11)
BENAGE, JOHN F., JR. (MP-11)
WILLIAMS, HARRY EUGENE (MP-11)
- 44-11**
DEVELOPMENT OF A MULTICUSP HYDROGEN
MINUS ION SOURCE FOR ACCELERATOR
APPLICATIONS.
INTL. SYMPOSIUM ON PRODUCTION AND
NEUTRALIZATION OF NEGATIVE IONS AND
BEAMS, 3RD, 1983, BROOKHAVEN. PROC.,
P.410-7. AMER. INST. OF PHYSICS,
1984. (539.73/P964NE/1983)
ALSO PUBLISHED IN:
TIC,
1983. 8P. MN (LA-UR-83-3273)
YORK, ROBBIE LYNN (MP-11)
STEVENS, RALPH R., JR. (MP-DO)
- 44-12**
DIPOLE APERTURE AND SUPERCONDUCTOR
REQUIREMENTS.
TIC,
1983. 5P. MN (LA-UR-84-0096)
WIPF, STEFAN L. (P-DO)
- 44-13**
EFFET OF RF STRUCTURE ON CUMULATIVE
BEAM BREAKUP.
TIC,
1983. 5P. MN (LA-UR-83-2317)
GLUCKSTERN, ROBERT L.
COOPER, RICHARD K. (AT-6)
CHANNELL, PAUL J. (AT-6)
- 44-14**
ELECTRON BEAM DIAGNOSTICS FOR THE
LOS ALAMOS FREE-ELECTRON OSCILLATOR
EXPERIMENT.
FREE-ELECTRON GENERATORS OF
COHERENT RADIATION, 1983.
ORCAS ISLAND, WASHINGTON, PROC.,
P. 151-2. SPIE, 1984.
(621.366/F853EL/1983)
ALSO PUBLISHED IN:
TIC,
1983. 6P. MN (LA-UR-83-2383)
SHEFFIELD, RICHARD L. (AT-7)
STEIN, WILLIAM E. (AT-7)
WARREN, ROGER W. (AT-7)
LUMPKIN, ALEX H. (P-DO)
FRASER, JOHN S. (AT-7)
- 44-15**
ELECTRON MOTION IN SOLENOIDAL MAGNETIC
FIELDS USING A FIRST-ORDER SYMPLECTIC
INTEGRATION ALGORITHM.
LINEAR ACCELERATOR CONFERENCE,
1984, SEEHEIM. PROC., P.206-8.
1984. (GSI-84-11)
FRASER, JOHN S. (AT-7)
- 44-16**
EXPLORATION OF PHASE STABILITY IN THE
SURFATRON ACCELERATOR.
LINEAR ACCELERATOR CONFERENCE,
1984, SEEHEIM. PROC., P.162-4.
1984. (GSI-84-11)
ALSO PUBLISHED IN:
TIC,
1984. 4P. MN (LA-UR-84-1349)
NEUFFER, DAVID (AT-6)
- 44-17**
GENERAL-PURPOSE RFQ DESIGN PROGRAM.
LINEAR ACCELERATOR CONFERENCE,
1984, SEEHEIM, PROC., P. 330-1.
1984. (GSI-84-11)
WADLINGER, E. ALAN (AT-2)
- 44-18**
HIGH - FIELD DIPOLES FOR FUTURE
ACCELERATORS.
LOS ALAMOS,
1984. 45P. (LA-10219-MS)
WIPF, STEFAN L. (AT-6)
- 44-19**
HIGH - Q PERPENDICULAR BIASED
FERRITE - TUNED CAVITY.
TIC,
1983. 4P. MN (LA-UR-83-2445)
CARLINI, ROGER D. (MP-4)
THIESSEN, HENRY A. (MP-DO)
POTTER, J. M. (AT-1)

- 44-20
HIGH POWER TESTING OF THE MULTIPLE LOOP RADIO FREQUENCY DRIVE CONCEPT FOR THE FMIT ACCELERATOR.
LINEAR ACCELERATOR CONFERENCE, 1984, SEEHEIM. PROC., P.183-5.
1984. (GSI-84-11)
ALSO PUBLISHED IN:
TIC,
1984. 4P. MN (LA-UR-84-1348)
FAZIO, MICHAEL V. (AT-5)
PATTON, ROBERT D. (AT-5)
- 44-21
HIGH-Q PERPENDICULAR-BIASED FERRITE TUNED CAVITY.
LOS ALAMOS,
1984. 4P. (LA-09946-MS)
CARLINI, ROGER D. (MP-4)
THIESSEN, HENRY A. (MP-DO)
POTTER, J. M. (AT-1)
- 44-22
HUMAN FACTORS CONSIDERATIONS IN THE MONITOR SYSTEMS.
TRANS. AM. NUCL. SOC., V.44, P.568-9. 1983.
ALSO PUBLISHED IN:
TIC,
1983. 12P. MN (LA-UR-83-1559)
ALSO PUBLISHED IN:
CONFERENCE ON REMOTE SYSTEMS TECHNOLOGY, 30TH, 1982, LOS ANGELES. PROC., P.35-9. ANS, 1984.
GRISHAM, DONALD L. (MP-7)
LAMBERT, JAMES E. (MP-7)
- 44-23
INSTRUMENTATION AND CONTROL SYSTEM FOR THE AT - 2 ACCELERATOR TEST STAND.
LINEAR ACCELERATOR CONFERENCE, 1984, SEEHEIM, PROC., P.150-2.
1984. (GSI-84-11)
ALSO PUBLISHED IN:
TIC,
1984. 4P. MN (LA-UR-84-1278)
WADLINGER, E. ALAN (AT-2)
HOLTKAMP, DAVID B. (AT-2)
HOLT, HAL D. (AT-2)
- 44-24
INTRODUCTION OF RFQ SESSION.
LINEAR ACCELERATOR CONFERENCE, 1984, SEEHEIM. PROC., P.49-52.
1984. (GSI-84-11)
ALSO PUBLISHED IN:
TIC,
1984. 5P. MN (LA-UR-84-1375)
JAMESON, ROBERT A. (AT-DO)
- 44-25
INVESTIGATION OF EMITTANCE GROWTH IN THE WHITE HORSE BEAM.
LOS ALAMOS,
1984. 14P. (LA-09953-MS)
JONES, MICHAEL E. (X-8)
LEE, HUAN (X-8)
LEMONS, DON S. (X-8)
- 44-26
LAMPF TRANSITION - REGION MECHANICAL FABRICATION.
LOS ALAMOS,
1984. 51P. (LA-10136-MS)
BUSH, EDGAR D., JR. (MP-8)
GALLEGOS, JOSE D. F. (MP-8)
HARRISON, RONALD (MP-8)
HART, VALGENE E. (MP-8)
HUNTER, W. TED (MP-8)
RISLOVE, SETH E. (MP-8)
SIMS, JAMES R. (MP-8)
VAN DYKE, W. JOSEPH (MP-8)
- 44-27
LATTICE FOR A LOW - FIELD SUPERCONDUCTING SUPER COLLIDER.
TIC,
1983. 4P. MN (LA-UR-84-0191)
NEUFFER, DAVID (AT-6)
- 44-28
LINAC - DRIVEN XUV FREE - ELECTRON LASER.
FREE ELECTRON GENERATION OF EXTREME ULTRAVIOLET COHERENT RADIATION, 1983, BROOKHAVEN. PROC., P.190-202.
AIP, 1984. (621.366/F853EL/1983)
ALSO PUBLISHED IN:
TIC,
1983. 24P. MN (LA-UR-83-3288)
NEWNAM, BRIAN E. (CHM-6)
GOLDSTEIN, JOHN C. (X-1)
FRASER, JOHN S. (AT-7)
COOPER, RICHARD K. (AT-6)
- 44-29
LINER - DRIVEN RING ACCELERATORS.
LOS ALAMOS,
1984. 8P. (LA-09968-MS)
GISLER, GALEN (X-8)
FAEHL, R. J. (X-8)
- 44-30
LONGITUDINAL SPACE - CHARGE EFFECTS IN BUNCHED BEAMS.
TIC,
1983. 8P. MN (LA-UR-83-2339)
CHANNELL, PAUL J. (AT-6)
- 44-31
LUMPED - CIRCUIT MODEL OF FOUR - VANE RFQ RESONATOR.
LINEAR ACCELERATOR CONFERENCE, 1984, SEEHEIM. PROC., P.332-4.
1984. (GSI-84-11)
WANGLER, THOMAS P. (AT-1)
- 44-32
MAGNETS FOR THE PROTON STORAGE RING AT LOS ALAMOS.
J. PHYS. COLLOQ., NO.1, P.1-245. 1984.
ALSO PUBLISHED IN:
TIC,
1983. 5P. MN (LA-UR-83-2477)
HARVEY, ALEXANDER (AT-5)
- 44-33
NEGATIVE HYDROGEN ION CURRENT FROM A POLARIZED VAPOR TARGET.
TIC,
1984. 9P. MN (LA-UR-84-0990)
CORNELIUS, WAYNE D. (AT-4)
- 44-34
NEW DIRECTIONS IN LINEAR ACCELERATORS.
LINEAR ACCELERATOR CONFERENCE, 1984, SEEHEIM. PROC., P.237-42.
1984. (GSI-84-11)
JAMESON, ROBERT A. (AT-DO)
- 44-35
NEW LINAC TECHNOLOGY - FOR SSC, AND BEYOND.
TIC,
1983. 6P. MN (LA-UR-83-2365)
JAMESON, ROBERT A. (AT-DO)
- 44-36
OPERATING EXPERIENCE WITH A 100 - KEV, 100 MA HYDROGEN MINUS INJECTOR.
INTL. SYMPOSIUM ON PRODUCTION AND NEUTRALIZATION OF NEGATIVE IONS AND BEAMS, 3RD, 1983, BROOKHAVEN. PROC., P.511-8. AMER. INST. OF PHYSICS, 1984. (539.73/P964NE/1983)
ALSO PUBLISHED IN:
TIC,
1983. 9P. MN (LA-UR-83-3254)
ALLISON, PAUL W. (AT-2)
SHERMAN, J. D.
- 44-37
OPERATIONAL PARAMETERS OF A 2.0 MEV RFQ LINAC.
LINEAR ACCELERATOR CONFERENCE, 1984, SEEHEIM, PROC., P.54-5.
1984. (GSI-84-11)
SANDER, OSCAR R. (AT-2)
PURSER, FRED O. (AT-2)
RUSTHOI, DANIEL P.
- 44-38
OPTICAL ALIGNMENT TO SET A SKEWED BEAMLINE FOR NEUTRINO RESEARCH AT THE LAMPF ACCELERATOR.
OPTICAL ALIGNMENT II, 1984, ARLINGTON. PROC., P.131-8. SPIE, 1984. (621.36/062A/1984)
BAUKE, WALTER (P-5)
CLARK, DAVID A. (P-9)
TRUJILLO, PETER B. (P-9)
- 44-39
OPTICALLY PUMPED POLARIZED HYDROGEN MINUS ION SOURCE.
INTL. SYMPOSIUM ON PRODUCTION AND NEUTRALIZATION OF NEGATIVE IONS AND BEAMS, 3RD, 1983, BROOKHAVEN. PROC., P.769-71. AMER. INST. OF PHYSICS, 1984. (539.73/P964NE/1983)
MORI, YOSHIHARU
IKEGAMI, KIYOSHI
TAKAGI, AKIRA
IGARASHI, Z.
FUKUMOTO, SADAYOSHI
CORNELIUS, WAYNE D. (AT-4)
YORK, ROBBIE LYNN (MP-11)

- 44-40
PARTICLE ACCELERATOR CONTROL AND DATA ACQUISITION IN THE CONTEXT OF VAX/VMS.
TIC,
1983. 6P. MN (LA-UR-83-3444)
SCHALLER, STUART C. (MP-1)
CORLEY, JAMIII K. (MP-1)
- 44-41
PATH - A LUMPED - ELEMENT BEAM TRANSPORT SIMULATION PROGRAM WITH SPACE CHARGE.
TIC,
1983. 7P. MN (LA-UR-83-2702)
FARRELL, JOHN ALDEN (AT-2)
- 44-42
PHASE STABILITY IN SURFATRON ACCELERATION.
TIC,
1983. 5P. MN (LA-UR-83-2366)
NEUFFER, DAVID (AT-6)
- 44-43
PRACTICAL ASPECTS OF TUNING A RINGED RFQ.
LINEAR ACCELERATOR CONFERENCE,
1984, SEEHEIM, PROC., P.115-7.
1984. (GSI-84-11)
PURSER, FRED O. (AT-2)
POTTER, J. M. (AT-1)
HUMPHREY, FREDERICK J. (AT-5)
- 44-44
PRACTICAL ASPECTS OF TUNING A RINGED RFQ.
TIC,
1984. 4P. MN (LA-UR-84-1308)
PURSER, FRED O. (AT-2)
POTTER, J. M. (AT-1)
HUMPHRY, FREDERICK J. (AT-1)
- 44-45
PRINCIPLES AND APPLICATIONS OF MUON COOLING.
TIC,
1983. 5P. MN (LA-UR-83-2375)
NEUFFER, DAVID (AT-6)
- 44-46
PROGRESS AT LAMPF, JANUARY - DECEMBER 1983, CLINTON P. ANDERSON MESON PHYSICS FACILITY.
LOS ALAMOS,
1984. 269P. (LA-10070-PR)
ALLRED, JOHN C. (MP-DO)
- 44-47
PROTON STORAGE RING (PSR) DIAGNOSTICS AND CONTROL SYSTEMS.
TIC,
1983. 7P. MN (LA-UR-83-2592)
CLOUT, PETER N. (AT-3)
- 44-48
PSR BEAM PULSE FORMATION AND CONTROL.
TIC,
1983. 7P. MN (LA-UR-83-2593)
HARDEKOPF, ROBERT A. (AT-3)
- 44-49
RADIAL PARTICLE DISTRIBUTIONS IN PARMILA SIMULATION BEAMS.
LOS ALAMOS,
1984. 34P. (LA-10063-MS)
BOICOURT, GRENFELL P. (AT-6)
- 44-50
RADIATION-RESISTANT BEAMLINE COMPONENTS AT LAMPF.
TIC,
1983. 7P. MN (LA-UR-83-2736)
MACEK, ROBERT J. (MP-13)
GRISHAM, DONALD L. (MP-7)
LAMBERT, JAMES E. (MP-7)
WERBECK, RICHARD D. (MP-7)
- 44-51
REFERENCE DESIGN FOR LAMPF II.
TIC,
1983. 5P. MN (LA-UR-83-2426)
THIESSEN, HENRY A. (MP-DO)
- 44-52
REMOTE HANDLING AT LAMPF.
TIC,
1983. 5P. MN (LA-UR-83-2692)
GRISHAM, DONALD L. (MP-7)
LAMBERT, JAMES E. (MP-7)
- 44-53
REMOTE OPERATIONS AND VIEWING USING THE MONITOR SYSTEM.
TRANS. AM. NUCL. SOC.,
V.47, P.456. 1984.
GRISHAM, DONALD L. (MP-7)
LAMBERT, JAMES E. (MP-7)
BALDWIN, THOMAS S. (MP-7)
EKBERG, ETHEN L. (MP-7)
HERNANDEZ, TOMMY R. (MP-7)
RAYBUN, JOSEPH L. (MP-7)
- 44-54
REMOTE REPLACEMENT OF A TARGET CELL AT LAMPF.
TRANS. AM. NUCL. SOC.,
V.46, P.773-4. 1984.
ALSO PUBLISHED IN:
TIC,
1984. 6P. MN (LA-UR-84-1626)
GRISHAM, DONALD L. (MP-7)
LAMBERT, JAMES E. (MP-7)
- 44-55
RFQ DEVELOPMENT AT LOS ALAMOS.
TIC,
1984. 6P. MN (LA-UR-84-0498)
ARMSTRONG, DALE D. (AT-4)
CORNELIUS, WAYNE D. (AT-4)
PURSER, FRED O. (AT-2)
JAMESON, ROBERT A. (AT-DO)
WANGLER, THOMAS P. (AT-1)
- 44-56
RFQ RADIAL MATCHING SECTIONS AND FRINGE FIELDS.
LINEAR ACCELERATOR CONFERENCE,
1984, SEEHEIM. PROC., P.109-11.
1984. (GSI-84-11)
ALSO PUBLISHED IN:
TIC,
1984. 4P. MN (LA-UR-84-1281)
CRANDALL, KENNETH R. (AT-1)
- 44-57
RING ACCELERATORS.
TIC,
1983. 5P. MN (LA-UR-83-2588)
GISLER, GALEN (X-8)
FAEHL, R. J. (X-8)
- 44-58
SCALED, CIRCULAR EMITTER PENNING SPS FOR INTENSE HYDROGEN MINUS BEAMS.
INTL. SYMPOSIUM ON PRODUCTION AND NEUTRALIZATION OF NEGATIVE IONS AND BEAMS, 3RD, 1983, BROOKHAVEN. PROC., P.458-62. AMER. INST. OF PHYSICS,
1984. (539.73/P964NE/1983)
ALSO PUBLISHED IN:
TIC,
1983. 6P. MN (LA-UR-83-3246)
SMITH, HORACE V. (AT-2)
ALLISON, PAUL W. (AT-2)
SHERMAN, JOSEPH D. (AT-2)
- 44-59
SIMULATION OF TRANSITION CROSSING IN LAMPF II.
TIC,
1983. 4P. MN (LA-UR-83-2367)
WARREN, JOHN L. (AT-6)
THIESSEN, HENRY A. (MP-14)
- 44-60
SPALLATION RADIATION DAMAGE AND THE RADIATION DAMAGE FACILITY AT THE LAMPF A-6 TARGET STATION.
J. NUCL. MATER.,
V.122-3, P.1078-84. 1984.
WECHSLER, M. S.
SOMMER, WALTER F., JR. (MP-13)
- 44-61
SSC RF DESIGN EXAMPLE.
TIC,
1983. 4P. MN (LA-UR-84-0327)
COLTON, EUGENE P. (MP-14)
- 44-62
STAGED APPROACH FOR LAMPF II.
LOS ALAMOS,
1984. 23P. (LA-09949-MS)
COLTON, EUGENE P. (MP-14)
- 44-63
STATUS OF THE NEW HIGH INTENSITY HYDROGEN NEGATIVE INJECTOR AT LAMPF.
LINEAR ACCELERATOR CONFERENCE,
1984, SEEHEIM, PROC., P.226-8.
1984. (GSI-84-11)
ALSO PUBLISHED IN:
TIC,
1984. 4P. MN (LA-UR-84-1232)
STEVENS, RALPH R., JR. (MP-DO)
YORK, ROBBIE LYNN (MP-11)
MC CONNELL, JOHN R. (MP-12)
KANDARIAN, ROBERT (MP-11)
- 44-64
STATUS REPORT ON FMIT.
LINEAR ACCELERATOR CONFERENCE,
1984, SEEHEIM. PROC., P.505-6.
1984. (GSI-84-11)
ARMSTRONG, DALE D. (AT-4)

44-65
SUBHARMONIC BUNCHER FOR THE LOS ALAMOS
FREE - ELECTRON LASER OSCILLATOR
EXPERIMENT.

FREE-ELECTRON GENERATORS OF
COHERENT RADIATION, 1983,
ORCAS ISLAND, WASHINGTON. PROC.,
P. 146-50. SPIE, 1984.

(621.366/F853EL/1983)

ALSO PUBLISHED IN:

TIC,

1983. 10P. MN (LA-UR-83-2151)

FRASER, JOHN S. (AT-7)

44-66
THIRTY - FIVE YEARS OF DRIFT - TUBE
LINAC EXPERIENCE.

LOS ALAMOS,

1984. 14P. (LA-10138-MS)

KNOWLES, HARROLD B. (MP-3)

44-67
TRANSITIONLESS LATTICES FOR LAMPF II.
LOS ALAMOS,
1984. 58P. (LA-10260-MS)
FRANCZAK, BERNHARD J.

44-68
VACUUM BREAKDOWN AND SURFACE COATING OF
RF CAVITIES.

J. APPL. PHYS.,

V.56, P.1546-7. 1984.

PETER, WILLIAM K. (X-8)

44-69
VACUUM REQUIREMENTS FOR LAMPF II.
LOS ALAMOS,
1984. 8P. (LA-10224-MS)
NEUFFER, DAVID (AT-6)

45. PETROLEUM AND NATURAL GAS

45-1
LABORATORY ULTRASONIC AND RESISTIVITY
MEASUREMENTS ON SEDIMENTARY ROCKS
CONTAINING TETRAHYDROFURAN HYDRATES.
LOS ALAMOS,
1984. 67P. (LA-09972-MS)
PEARSON, CHRISTOPHER F. (ESS-3)
MURPHY, J. (ESS-3)
HERMES, ROBERT E. (ESS-2)
HALLECK, PHILLIP M. (ESS-3)

45-2
NUCLEAR MAGNETIC RESONANCE
WELL LOGGING.
LOG ANAL.,
V.25, NO.5, P.16-30. 1984.
JACKSON, JASPER A., JR. (ESS-3)

45-3
NUMERICAL METHODS DEVELOPED FOR THE
SIMULATION OF COUPLED HIGH - ENERGY
GAS FLOWS AND STRESS WAVE PROPAGATION
IN GEOLOGIC MEDIA.
SHOCK WAVES IN CONDENSED MATTER,
1983, SANTA FE. PROC., P.505-8.
ELSEVIER, 1984.
KILLIAN, BARBARA GERMAIN (G-DO)

47. PHYSICS—ATOMIC AND MOLECULAR

- 47-1**
 AB INITIO THEORETICAL STUDIES OF A NOVEL TUNGSTEN DIHYDROGEN COMPLEX.
 CHEM. PHYS. LETT.,
 V.103, P.466-9. 1984.
 HAY, P. JEFFREY (T-12)
- 47-2**
 ANGLE - AVERAGED COMPTON CROSS SECTIONS.
 TIC,
 1983. 12P. MN (LA-UR-83-3095)
 NICKEL, GEORGE H. (X-2)
- 47-3**
 ANTIPROTONIC ATOMIC ENERGY LEVELS VIA THE (PROTON, PROTON) REACTION.
 PHYS. LETT.,
 V.145B, P.1-3. 1984.
 GIBBS, WILLIAM R. (T-5)
 KAUFMANN, WILLIAM B. (T-5)
- 47-4**
 BOUND-STATE EIGENFUNCTIONS OF CLASSICALLY CHAOTIC HAMILTONIAN SYSTEMS - SCARS OF PERIODIC ORBITS.
 PHYS. REV. LETT.,
 V.53, P.1515-8. 1984.
 HELLER, ERIC J. (T-12)
- 47-5**
 CARBON 13 NMR STUDIES OF THE THERMAL PROPERTIES OF A MODEL HIGH DENSITY LIPOPROTEIN.
 J. BIOL. CHEM.,
 V.259, P.10340-77. 1984.
 BRAINARD, JAMES R. (INC-4)
 KNAPP, ROGER D.
 MORRISETT, JOEL D.
 POWNALL, HENRY J.
- 47-6**
 CHAOS IN A SEMICLASSICAL MODEL OF MULTIPHOTON EXCITATION OF SPHERICAL TOP MOLECULES.
 COHERENCE AND QUANTUM OPTICS, 5TH, 1983, ROCHESTER. PROC., P.721-7. PLENUM, 1984.
 ALSO PUBLISHED IN:
 TIC,
 1983. 9P. MN (LA-UR-83-1574)
 GALBRAITH, HAROLD W. (T-12)
 ACKERHALT, JAY R. (T-12)
 MILONNI, PETER W. (T-12)
- 47-7**
 CHARACTERIZATION OF THE FIRST EXAMPLES OF ISOLABLE MOLECULAR HYDROGEN COMPLEXES, METAL (TRICARBONYL) (ORGANOPHOSPHINE)₂ (DIHYDROGEN) (METAL EQUALS MOLYBDENUM, TUNGSTEN; ALKYL EQUALS CYCLOHEXYL, ISOPROPYL). EVIDENCE FOR A SIDE-ON BONDED DIHYDROGEN LIGAND.
 J. AM. CHEM. SOC.,
 V.106, P.451-2. 1984.
 KUBAS, GREGORY J. (INC-4)
 RYAN, ROBERT R. (INC-4)
 SWANSON, BASIL I. (INC-4)
 VERGAMINI, PHILLIP J. (P-8)
 WASSERMAN, HARVEY (INC-4)
- 47-8**
 CLASSICAL STOCHASTIC DIFFUSION THEORY FOR THERMAL DESORPTION FROM SOLID SURFACES.
 J. VAC. SCI. TECHNOL.,
 V.B2, P.550-60. 1984.
 REDONDO, ANTONIO (E-11)
 ZEIRI, YEHUDA
 GODDARD, WILLIAM A., III
- 47-9**
 COMMENT ON "GENERIC BEHAVIOR OF COUPLED OSCILLATORS."
 PHYS. REV.,
 V.30A, P.1127. 1984.
 MAYER-KRESS, GOTTFRIED (CNLS)
 HAUBS, G.
- 47-10**
 COMPARATIVE STUDY OF LOW-ENERGY 2 SIGMA G AND 2 PI G SCATTERING IN MOLECULAR NITROGEN.
 PHYS. REV.,
 V.30A, P.95-9. 1984.
 SCHNEIDER, BARRY I. (T-12)
 COLLINS, LEE A. (T-4)
- 47-11**
 CORRELATION EFFECTS ON CHARGE-DENSITY WAVES IN NARROW-BAND ONE-DIMENSIONAL CONDUCTORS.
 PHYS. REV.,
 V.30B, P.4842-5. 1984.
 MAZUMDAR, SUMIT (CNLS)
 DIXIT, S. N.
 BLOCH, A. N.
- 47-12**
 DEEP CORE - LEVEL RESONANCE PHOTOEMISSION FROM URANIUM DIOXIDE(111). STANFORD SYNCHROTRON RADIATION LAB. ACTIVITY REPORT FOR APRIL 1, 1982 MARCH 31, 1983. K. CANTWELL, ED., P.VII-85. SSRL, 1983. (SSRL-83/01)
 ALLEN, JAMES W. (P-APO)
 OH, SE-JUNG
 ELLIS, WALTON P. (CHM-2)
 COX, LAWRENCE E. (MST-13)
- 47-13**
 DOPPLER-FREE TWO-PHOTON SPECTROSCOPY OF THE 2 V 3 BAND OF SULFUR HEXAFLUORIDE.
 J. MOL. SPECTROSC.,
 V.108, P.31-41. 1984.
 PATTERSON, CHRIS W. (T-12)
 HERLEMONT, F.
 AZIZI, A.
 LEMAIRE, J.
- 47-14**
 ELASTIC SCATTERING OF ELECTRONS BY MOLECULES.
 ELECTRON-MOLECULE INTERACTIONS AND THEIR APPLICATIONS, L.G. CHRISTOPHOROU, ED., P.1-153. ACADEMIC PRESS, 1984. (539.721/E38MO/V.1)
 CSANAK, G. Y. (T-4)
 CARTWRIGHT, DAVID C. (CHM-DO)
 SRIVASTAVA, S. K.
 TRAJMAR, S.
- 47-15**
 ELASTIC SCATTERING OF POLARIZED PROTONS ON DEUTERIUM AT 800 MEV.
 LOS ALAMOS,
 1984. 175P. (LA-10174-T)
 WESTON, GARY S.
- 47-16**
 ELECTRON - ELECTRON INTERACTIONS AND BROKEN SYMMETRY IN ONE DIMENSION.
 TIC,
 1983. 16P. MN (LA-UR-83-3014)
 MAZUMDAR, SUMIT (CNLS)
 DIXIT, S. N.
- 47-17**
 ELECTRON - IMPACT EXCITATION OF SOME LOW - LYING LEVELS OF NEON.
 PHYS. REV.,
 V.29A, P.1811-23. 1984.
 MACHADO, LUIZ E.
 LEAL, EMERSON P.
 CSANAK, G. Y. (T-4)
- 47-18**
 ELECTRON CORRELATION EFFECTS ON THE NITROGEN-NITROGEN INTERACTION.
 J. CHEM. PHYS.,
 V.81, P.1360-71. 1984.
 HAY, P. JEFFREY (T-12)
 PACK, RUSSELL T. (T-12)
 MARTIN, RICHARD L. (T-12)
- 47-19**
 ELECTRON-GAS PLUS DAMPED-DISPERSION MODEL FOR INTERMOLECULAR FORCES-THE RARE-GAS AND HYDROGEN-HELIUM, HYDROGEN-NEON, AND HYDROGEN-ARGON POTENTIALS.
 J. PHYS. CHEM.,
 V.88, P.4272-8. 1984.
 LESAR, RICHARD A. (T-11)

- 47-20
ELECTRON-IMPACT-EXCITATION CROSS SECTIONS FOR ELECTRONIC LEVELS IN NEON FOR INCIDENT ENERGIES BETWEEN 25 AND 100 EV.
PHYS. REV.,
V.29A, P.1793-1809. 1984.
REGISTER, D. F.
TRAJMAR, S.
STEFFENSEN, G.
CARTWRIGHT, DAVID C. (CHM-DO)
- 47-21
ELECTRONIC PROPERTIES OF ARGON AND XENON UNDER PRESSURE.
TIC,
1983. 5P. MN (LA-UR-83-2305)
LESAR, RICHARD (P-10)
- 47-22
EVIDENCE FOR A PHENOMENOLOGICAL SUPERSYMMETRY IN ATOMIC PHYSICS.
PHYS. REV. LETT.,
V.53, P.2285-8. 1984.
KOSTELECKY, VACLAV ALAN (T-8)
NIETO, MICHAEL MARTIN (T-8)
- 47-23
FORCE - FIELD MODEL FOR THE STRETCHING ANHARMONICITIES OF SULFUR HEXAFLUORIDE.
J. PHYS. CHEM.,
V.88, P.564-74. 1984.
KROHN, BURTON J. (T-12)
OVEREND, JOHN
- 47-24
HYPERFINE STRUCTURE OF QUARKONIUM STATES.
PHYS. REV.,
V.29D, P.513-6. 1984.
AERTS, ADRIAN T. (T-5)
HELLER, LEON (T-5)
- 47-25
IMPROVED ELECTRON - GAS MODEL CALCULATIONS OF SOLID NITROGEN 2 TO 10 GPa.
J. CHEM. PHYS.,
V.81, P.5104-8. 1984.
LESAR, RICHARD A (T-11)
- 47-26
INELASTIC COLLISIONS WITHOUT USE OF TARGET STATES.
CHEM. PHYS. LETT.,
V.104, P.129-34. 1984.
DROLSHAGEN, GERHARD (T-12)
HELLER, ERIC J. (T-12)
- 47-27
INTERACTING CHARGE - ORDERED STATES IN A CORRELATED DIATOMIC POLYMER.
PHYS. REV.,
V.29B, P.2317-20. 1984.
MAZUMDAR, SUMIT (CNLS)
DIXIT, S. N.
- 47-28
INTERACTION HAMILTONIAN OF QUANTUM OPTICS.
J. OPT. SOC. AM.,
V.1B, P.116-9. 1984.
ACKERHALT, JAY R. (T-12)
MILONNI, PETER W. (T-12)
- 47-29
INTERACTION MATRIX ELEMENTS FOR RESONANT MUONIC - MOLECULE FORMATION.
PHYS. REV. LETT.,
V.53, P.738. 1984.
COHEN, JAMES S. (T-12)
MARTIN, RICHARD L. (T-12)
- 47-30
INTRACAVITY ATOMIC ABSORPTION WITH AN INDUCTIVELY COUPLED PLASMA ATOMIZER.
APPL. SPECTROSC.,
V.38, P.876-9. 1984.
DOWNEY, STEPHEN W. (CHM-2)
NOGAR, NICHOLAS S. (CHM-2)
- 47-31
ISOTOPE SHIFTS AND FORCE FIELD FOR CARBON TETRACHLORIDE IN A KRYPTON MATRIX.
J. PHYS. CHEM.,
V.88, P.5560-3. 1984.
JONES, LLEWELLYN H. (INC-4)
SWANSON, BASIL I. (INC-4)
EKBERG, SCOTT A. (CNC-4)
- 47-32
LINE WIDTH AND LINE SHAPE ANALYSIS IN THE INDUCTIVELY COUPLED PLASMA BY HIGH RESOLUTION FOURIER TRANSFORM SPECTROMETRY.
TIC,
1984. 37P. MN (LA-UR-83-3713)
FAIRES, LYNDIA M. (CHM-1)
PALMER, BYRON A. (CHM-1)
BRAULT, J. W.
- 47-33
MOLECULAR PHOTOIONIZATION IN THE LINEAR ALGEBRAIC APPROACH - HYDROGEN, NITROGEN, NITROGEN OXYGEN, AND CARBON DIOXIDE.
PHYS. REV.,
V.29A, P.1695-1707. 1984.
COLLINS, LEE A. (T-4)
SCHNEIDER, BARRY I. (T-12)
- 47-34
MOLECULAR PROPERTIES FROM MCSCF-SCEP WAVE FUNCTIONS. II. CALCULATION OF ELECTRONIC TRANSITION MOMENTS.
J. CHEM. PHYS.,
V.80, P.5080-4. 1984.
WERNER, HANS-JOACHIM (T-12)
- 47-35
MULTIPHOTON ELECTRONIC SPECTROSCOPY OF ATOMS AND SMALL MOLECULES.
ADV. LASER SPECTROSC.,
V.2, P.105-34. 1983.
GLOWNIA, JAMES H. (CHM-4)
HARTFORD, ALLEN, JR. (CHM-DO)
LOGE, GARY WAYNE (CHM-4)
SANDER, ROBERT K. (CHM-4)
TIEE, JOE J. (CHM-4)
WAMPLER, FRED B. (CHM-4)
- 47-36
MULTIREFERENCE-CHLORIDE CALCULATIONS OF RADIATIVE TRANSITION PROBABILITIES CARBON 2.
J. CHEM. PHYS.,
V.80, P.5085-8. 1984.
ROSMUS, PAVEL
WERNER, HANS-JOACHIM (T-12)
- 47-37
MUON SPIN RELAXATION MEASUREMENTS OF SPIN - CORRELATION DECAY IN SPIN - GLASS SILVER MANGANESE.
HYPERFINE INTERACT.,
V.17-19, P.463-6. 1984.
ALSO PUBLISHED IN:
TIC,
1983. 9P. MN (LA-UR-83-1028)
HEFFNER, ROBERT H. (MP-3)
COOKE, D. W.
LEON, MELVIN (MP-3)
SCHILLACI, MARIO E. (MP-3)
MAC LAUGHLIN, DOUGLAS E.
GUPTA, LAXMI C.
- 47-38
OBSERVATION AND ANALYSIS OF FUNDAMENTAL BENDING MODE OF TRITIUM 2 OXYGEN.
J. MOL. SPECTROSC.,
V.103, P.41-55. 1984.
FRY, HERBERT A. (INC-4)
JONES, LLEWELLYN H. (INC-4)
BAREFIELD, J. E., II (CHM-4)
- 47-39
OPTIC PHONONS IN NICKEL HYDRIDE.
PHYS. REV.,
V.29B, P.3700-2. 1984.
ECKERT, JUERGEN (P-8)
MAJKZRK, CHARLES F.
PASSELL, LAURENCE
DANIELS, WILLIAM
- 47-40
ORIENTATIONAL ORDERING AND SITE STRUCTURE FOR CARBON CHLORIDE IN A KRYPTON MATRIX.
J. CHEM. PHYS.,
V.80, P.3050-3. 1984.
JONES, LLEWELLYN H. (INC-4)
SWANSON, BASIL I. (INC-4)

- 47-41
PATTERNS OF ENERGY LEVELS AND SPECTRA FOR POLYATOMIC MOLECULES.
TIC,
1983. 28P. MN (LA-UR-84-0431)
HARTER, W. G.
- 47-42
PHASE DIAGRAM OF NITROGEN DETERMINED BY RAMAN SPECTROSCOPY FROM 15 TO 300 K AT PRESSURES TO 52 GPA.
J. PHYS. CHEM.,
V.88, P.2522-5. 1984.
BUCHSBAUM, STEVEN (P-10)
MILLS, ROBERT L. (P-10)
SCHIFERL, DAVID (M-6)
- 47-43
PLANE - WAVE BORN COLLISION STRENGTHS FOR ELECTRON - ION EXCITATION - COMPARISON WITH OTHER THEORETICAL METHODS.
LOS ALAMOS, 1984. 32P. (LA-10192-MS)
CLARK, ROBERT EDWARD HOLMES (X-7)
COLLINS, LEE A. (T-4)
- 47-44
POTENTIAL ENERGY SURFACE OF CARBON 4 LITHIUM 4.
J. AM. CHEM. SOC.,
V.106, P.6246-9. 1984.
DISCH, RAYMOND L.
SCHULMAN, JEROME M.
RITCHIE, JAMES P. (T-14)
- 47-45
PREDISSOCIATION RATES AS A PROBE OF INTRAMOLECULAR DYNAMICS.
J. CHEM. PHYS.,
V.80, P.3680-6. 1984.
SUNDBERG, ROBERT L. (T-12)
HELLER, ERIC J. (T-12)
- 47-46
PROSPECTS FOR SINGLE - MOLECULE DETECTION IN LIQUIDS BY LASER-INDUCED FLUORESCENCE.
CONFERENCE ON ANALYTICAL CHEMISTRY IN ENERGY TECHNOLOGY, 26TH, 1983, KNOXVILLE. PROC., P.53-5. ELSEVIER, 1984.
ALSO PUBLISHED IN:
TIC,
1983. 4P. MN (LA-UR-83-3010)
TRKULA, MITCHELL (CHM-2)
DOVICH, NORMAN J. (CNC-2)
MARTIN, JOHN C. (LS-4)
JETT, JAMES H. (LS-4)
KELLER, RICHARD A. (CHM-2)
- 47-47
REACTIVE DIFFERENTIAL CROSS SECTIONS IN THE ROTATING LINEAR MODEL - REACTIONS OF FLUORINE ATOMS WITH HYDROGEN MOLECULES AND THEIR ISOTOPIC VARIANTS.
J. PHYS. CHEM.,
V.88, P.1194-9. 1984.
HAYES, EDWARD F.
WALKER, ROBERT B. (T-12)
- 47-48
REACTIVE RESONANCES AND ANGULAR DISTRIBUTIONS IN THE ROTATING LINEAR MODEL.
RESONANCES IN ELECTRON-MOLECULE SCATTERING, 1984, ST. LOUIS. PROC., P.493-511. ACS, 1984.
ALSO PUBLISHED IN:
TIC,
1984. 44P. MN (LA-UR-84-1235)
HAYES, EDWARD F.
WALKER, ROBERT B. (T-12)
- 47-49
RESONANCE IONIZATION MASS SPECTROMETRY AT LOS ALAMOS NATIONAL LABORATORY. CONFERENCE ON ANALYTICAL CHEMISTRY IN ENERGY TECHNOLOGY, 26TH, 1983, KNOXVILLE. PROC., P.155-9. ELSEVIER, 1984.
ALSO PUBLISHED IN:
TIC,
1983. 7P. MN (LA-UR-83-3012)
NOGAR, NICHOLAS S. (CHM-2)
DOWNEY, STEPHEN W. (CHM-2)
KELLER, RICHARD A. (CHM-2)
MILLER, CHARLES M. (INC-7)
- 47-50
RESONANCE IONIZATION MASS SPECTROMETRY OF URANIUM WITH INTRACAVITY LASER IONIZATION.
ANAL. CHEM.,
V.56, P.827-8. 1984.
DOWNEY, STEPHEN W. (CHM-2)
NOGAR, NICHOLAS S. (CHM-2)
MILLER, CHARLES M. (INC-7)
- 47-51
RESONANCES IN ELECTRON - MOLECULE SCATTERING AND PHOTOIONIZATION.
RESONANCES IN ELECTRON-MOLECULE SCATTERING, 1984, ST. LOUIS. PROC., P.85-86. ACS, 1984.
(541.2/R434EL/1984)
SCHNEIDER, BARRY I. (T-12)
COLLINS, LEE A. (T-4)
- 47-52
RESONANT MESONIC-MOLECULE FORMATION IN MUON - CATALYZED DEUTERIUM - TRITIUM FUSION.
PHYS. REV. LETT.,
V.52, P.605-8. 1984.
LEON, MELVIN (MP-3)
- 47-53
ROTATIONAL ENERGY SURFACES AND HIGH - J EIGENVALUE STRUCTURE OF POLYATOMIC MOLECULES.
J. CHEM. PHYS.,
V.80, P.4241-61. 1984.
HARTER, W. G.
PATTERSON, CHRIS W. (T-12)
- 47-54
SIZE CONSISTENCY IN PERTURBATION THEORIES.
J. CHEM. PHYS.,
V.80, P.1225-9. 1984.
SHEPPARD, MAURICE G. (T-12)
- 47-55
SPECTRAL EMISSION FROM GLOW PEAKS IN X - IRRADIATED ALUMINUM OXIDE.
J. APPL. PHYS.,
V.55, P.3437-40. 1984.
COOKE, D. W.
- 47-56
SPECTROSCOPIC DIAGNOSTICS OF AN ARGON PLASMA JET SEEDED WITH URANIUM. CONFERENCE ON ANALYTICAL CHEMISTRY IN ENERGY TECHNOLOGY, 2ND, 1983, KNOXVILLE. PROC., P.333-5. ELSEVIER, 1984.
ANDERSON, GRAYDON K. (CHM-3)
- 47-57
SPECTROSCOPIC EVIDENCE FOR DAVYDOV-LIKE SOLITONS IN ACETANILIDE.
PHYS. REV.,
V.30B, P.4689-702. 1984.
CARERI, G.
BUONTEMPO, U.
GALLUZZI, F.
SCOTT, ALWYN C. (CNLS)
GRATTON, E.
SHYAMSUNDER, E.
- 47-58
SPIN-GLASS DYNAMICS DETERMINED FROM MUON SPIN RELAXATION AND NEUTRON SPIN ECHO MEASUREMENTS.
HYPERFINE INTERACT.,
V.17-19, P.457-62. 1984.
ALSO PUBLISHED IN:
TIC,
1983. 10P. MN (LA-UR-83-1029)
HEFFNER, ROBERT H. (MP-3)
LEON, MELVIN (MP-3)
MAC LAUGHLIN, DOUGLAS E.
- 47-59
STRESSES AND ELASTIC CONSTANTS OF METALS WITH CLASSICAL ION MOTION.
PHYS. REV.,
V.30A, P.616-8. 1984.
WALLACE, DUANE C. (X-4)
SCHIFERL, SHEILA K. (X-4)
STRAUB, GALEN K. (T-4)

- 47-60
STRUCTURE OF NITROGEN DEUTERIUM 3
SOLIDS I AND II AT HIGH PRESSURE BY
NEUTRON DIFFRACTION.
J. CHEM. PHYS.,
V.81, P.6034-7. 1984.
ECKERT, JUERGEN (P-8)
MILLS, ROBERT L. (P-10)
SATIJA, SUSHIL K.
- 47-61
TEMPERATURE AND HYDROGEN-CONCENTRATION
DEPENDENCE OF HYDROGEN OPTIC VIBRATIONAL
FREQUENCIES IN ALPHA - AND ALPHA PRIME
PHASE NIOBIUM HYDRIDE - STATIC LATTICE
STRAIN AND ANHARMONICITY EFFECTS.
PHYS. REV.,
V.30B, P.4329-37. 1984.
TONKS, DAVIS L. (T-11)
- 47-62
TEMPERATURE DEPENDENCE OF HYDROGEN
SITE OCCUPANCY IN YTTRIUM DIHYDRIDE.
SOLID STATE COMMUN.,
V.49, P.475-8. 1984.
GOLDSTONE, JOYCE A. (P-8)
ECKERT, JUERGEN (P-8)
RICHARDS, PETER M.
VENTURINI, EUGENE L.
- 47-63
TEMPERATURE DEPENDENCE OF THE RESONANCE
RAMAN SPECTRA OF PLASTOCYANIN AND
AZURIN BETWEEN CRYOGENIC AND AMBIENT
CONDITIONS.
PROC. NATL. ACAD. SCI.,
V.81, P.1263-7. 1984.
WOODRUFF, WILLIAM H.
NORTON, KENNETH A.
SWANSON, BASIL I. (INC-4)
FRY, HERBERT A. (INC-4)
- 47-64
TEMPERATURE INDEPENDENT SPHERICAL
POTENTIAL WHICH REPRODUCES EXACTLY THE
SECOND VIRIAL COEFFICIENT OF NONPOLAR
MOLECULES.
J. CHEM. PHYS.,
V.81, P.3360-1. 1984.
SHAW, MILTON S. (T-14)
JOHNSON, JAMES D. (T-4)
- 47-65
THE 3 NU 3 OVERTONE INTENSITIES AND
VIBRATIONAL ANHARMONICITY CONSTANTS OF
URANIUM HEXAFLUORIDE AND PLUTONIUM
HEXAFLUORIDE.
CHEM. PHYS. LETT.,
V.104, P.79-82. 1984.
KIM, KYU C. (MST-11)
BRIESMEISTER, RICHARD A. (MST-11)
CAMPBELL, GEORGE M. (MST-11)
PERSON, WILLIS B.
- 47-66
THEORETICAL STUDY OF DIMERIC FORMS
OF GROUND - STATE BENZENE MOLECULES.
J. AM. CHEM. SOC.,
V.106, P.5439-46. 1984.
ENGELKE, RAY P. (M-3)
HAY, P. JEFFREY (T-12)
KLEIER, DANIEL A. (T-12)
WADT, WILLARD R. (T-12)
- 47-67
THERMODYNAMICS OF DENSE FLUID NITROGEN
BY MOLECULAR DYNAMICS.
J. CHEM. PHYS.,
V.80, P.1279-93. 1984.
JOHNSON, JAMES D. (T-4)
SHAW, MILTON S. (T-14)
HOLIAN, BRAD LEE (T-4)
- 47-68
USE OF SCALED ORBITAL FUNCTIONS IN
SELF - CONSISTENT FIELD CALCULATIONS
FOR ATOMS.
INT. J. QUANTUM CHEM., SYMP.,
V.18, P.359-68. 1984.
LIBERMAN, DAVID A. (T-4)
- 47-69
VECTOR FIELDS, LINE INTEGRALS, AND THE
HAMILTON - JACOBI EQUATION-
SEMICLASSICAL QUANTIZATION OF BOUND
STATES.
PHYS. REV.,
V.30A, P.5-18. 1984.
DE LEON, NELSON (T-12)
HELLER, ERIC J. (T-12)
- 47-70
WAVEPACKET APPROACH TO GAS - SURFACE
SCATTERING - APPLICATION TO SURFACES
WITH IMPERFECTIONS.
SURF. SCI.,
V.139, P.260-78. 1984.
DROLSHAGEN, GERHARD (T-12)
HELLER, ERIC J. (T-12)
- 47-71
X - RAY ABSORPTION SPECTRA IN RARE-
EARTH AND URANIUM INTERMETALLICS-
LOCALIZED VERSUS ITINERANT FINAL
STATES.
PHYS. REV.,
V.29B, P.568-75. 1984.
LAWRENCE, J. M.
DENBOER, M. L.
PARKS, RONALD D.
SMITH, JAMES L. (MST-5)

48. PHYSICS—COSMIC AND TERRESTRIAL

- 48-1
"DRIFT DISSIPATIVE INSTABILITY"—
A CRITIQUE.
J. ATMOS. TERR. PHYS.,
V.46, P.685-7. 1984.
GARY, S. PETER (ESS-8)
- 48-2
ANALYSIS OF MAGNESIUM X1 LINE PROFILES
FROM SOLAR ACTIVE REGIONS.
ASTROPHYS. J.,
V.282, P.784-82. 1984.
BLAKE, RICHARD L. (P-4)
COWAN, ROBERT D. (T-4)
FELTHAUSER, HARRY E. (P-4)
FENIMORE, EDWARD E. (ESS-9)
HOCKADAY, MARY P. (P-14)
BELY-DUBAU, FRANCOISE
FAUCHER, PAUL
STEENMAN-CLARK, LOIS
- 48-3
APPLICATION OF ATMOSPHERIC TRANSPORT
MODELS FOR COMPLEX TERRAIN.
J. CLIM. APPL. METEOROL.,
V.23, P.240-6. 1984.
KING, DAVID S. (X-5)
BUNKER, SUSAN S. (X-5)
- 48-4
ASSOCIATIONS OF GEOMAGNETIC ACTIVITY
WITH PLASMA SHEET THINNING AND
EXPANSION - A STATISTICAL STUDY.
J. GEOPHYS. RES.,
V.89A, P.5471-8. 1984.
HONES, EDWARD W., JR. (ESS-8)
PYTTE, T.
WEST, HARRY I., JR.
- 48-5
ATMOSPHERIC TRANSPORT MODELS FOR
COMPLEX TERRAIN.
J. CLIM. APPL. METEOROL.,
V.23, P.235-7. 1984.
DAVIS, CECIL G. (X-5)
BUNKER, SUSAN S. (X-5)
MUTSCHLECHNER, J. PAUL (X-5)
- 48-6
CEPHEID EVOLUTION.
TIC,
1984. 23P. MN (LA-UR-84-1996)
BECKER, STEPHEN A. (X-2)
- 48-7
CHEMISTRY AND DYNAMICS OF SULFUR
HEXAFLUORIDE INJECTIONS INTO THE F
REGION.
J. GEOPHYS. RES.,
V.89A, P.3929-36. 1984.
BERNHARDT, PAUL A. (ESS-7)
- 48-8
CLASSICAL KALUZA - KLEIN COSMOLOGY FOR
A TORUS SPACE WITH A COSMOLOGICAL
CONSTANT AND MATTER.
PHYS. REV.,
V.30D, P.2054-60. 1984.
TOSA, YASUNARI (T-8)
- 48-9
CLOSE ENCOUNTERS BETWEEN A STAR-
PLANET SYSTEM AND A STELLAR INTRUDER.
ASTRON. J.,
V.89, P.1559-64. 1984.
HILLS, JACK G. (T-6)
- 48-10
COLLECTIVE CAPTURE OF RELEASED LITHIUM
IONS IN THE SOLAR WIND.
J. GEOPHYS. RES.,
V.89A, P.7327-30. 1984.
WINSKE, DAN
WU, C. S.
LI, Y. Y.
ZHOU, G. C.
- 48-11
COLLIDING WINDS - INTERACTION REGIONS
WITH STRONG HEAT CONDUCTION.
ASTROPHYS. J.,
V.280, P.313-8. 1984.
IMAMURA, JAMES N. (ESS-9)
CHEVALIER, ROGER A.
- 48-12
COLLISIONLESS DISSIPATION IN
QUASI - PERPENDICULAR MAGNETIC SHOCKS.
J. GEOPHYS. RES.,
V.89A, P.2142-50. 1984.
FORSLUND, DAVID W. (X)
QUEST, KEVIN B. (X-1)
BRACKBILL, JEREMIAH U. (X-1)
LEE, KENNETH (X-1)
- 48-13
COMPARISON OF THE X-RAY OBSERVATIONS
OF THE AM HERCULIS OBJECTS TO THEORY.
ASTROPHYS. J.,
V.285, P.223-31. 1984
IMAMURA, JAMES N. (ESS-9)
- 48-14
COMPUTER SIMULATION OF RECONNECTION IN
PLANETARY MAGNETOSPHERES.
TIC,
1983. 17P. MN (LA-UR-83-2515)
BIRN, J.
- 48-15
CONSTRAINTS ON STELLAR EVOLUTION FROM
PULSATIONS.
TIC,
1983. 20P. MN (LA-UR-83-3215)
COX, ARTHUR N. (T-6)
- 48-16
COOKBOOK FOR DETERMINING ESSENTIAL
TRANSMISSION CHARACTERISTICS OF
SPHERICAL SECTION ELECTROSTATIC
ANALYZERS.
LOS ALAMOS,
1984. 154P. (LA-10147-M)
GOSLING, JOHN T. (ESS-8)
THOMSEN, MICHELLE F. (ESS-8)
ANDERSON, RICHARD C. (ESS-8)
- 48-17
CORRELATED DYNAMICAL CHANGES IN THE
NEAR - EARTH AND DISTANT MAGNETOTAIL
REGIONS - ISEE 3.
J. GEOPHYS. RES.,
V.89A, P.3855-64. 1984.
BAKER, DANIEL N. (ESS-8)
BAME, SAMUEL J., JR. (ESS-8)
BELIAN, RICHARD D. (ESS-8)
FELDMAN, WILLIAM C. (ESS-8)
GOSLING, JOHN T. (ESS-8)
HIGBIE, PAUL R. (ESS-8)
HONES, EDWARD W., JR. (ESS-8)
MC COMAS, DAVID J. (ESS-8)
ZWICKL, RONALD D. (ESS-8)
- 48-18
CORRELATION BETWEEN THE HELIUM-
HYDROGEN RATIOS IN UPSTREAM PARTICLE
EVENTS AND IN THE SOLAR WIND.
J. GEOPHYS. RES.,
V.89, P.1501-7. 1984.
IPAVICH, FRED M.
GOSLING, JOHN T. (ESS-8)
SCHOLER, M.
- 48-19
CYLTRAN CALCULATIONS OF ELECTRON
EFFECTS ON XD DETECTORS.
LOS ALAMOS,
1984. 10P. (LA-10264-MS)
MAYER, STUART
BERZINS, GEORGE J. (ESS-9)
- 48-20
DENSITY SPECTRA AS FUNCTION OF
ALTITUDE IN AN IONOSPHERIC BARIUM
RELEASE.
GEOPHYS. RES. LETT.,
V.11, P.591-4. 1984.
LEBEDA, CHARLES F.
GARY, S. PETER (ESS-8)
PONGRATZ, MORRIS B. (ESS-8)

48-21
DETAILED EXAMINATION OF A PLASMOID IN
THE DISTANT MAGNETOTAIL WITH ISEE 3.

GEOPHYS. RES. LETT.,

V.11, P.1046-9. 1984.

HONES, EDWARD W., JR. (ESS-8)

BIRN, J.

BAKER, DANIEL N. (ESS-8)

BAME, SAMUEL J., JR. (ESS-8)

FELDMAN, WILLIAM C. (ESS-8)

MC COMAS, DAVID J. (ESS-8)

ZWICKL, RONALD D. (ESS-8)

SLAVIN, J. A.

SMITH, E. J.

TSURUTANI, B. T.

48-22

DID THE BINARY STARS IN GLOBULAR
CLUSTERS COME TO AN EARLY END BY
BEING TOO ECCENTRIC?

ASTRON. J.,

V.89, P.1811-4. 1984.

HILLS, JACK G. (T-6)

48-23

DIGITAL HF RADAR OBSERVATIONS OF
EQUATORIAL SPREAD - F.

TIC,

1984. 35P. MN (LA-UR-84-0264)

ARGO, PAUL E. (ESS-7)

48-24

DIMENSIONAL REDUCTION IN THE EARLY
UNIVERSE - WHERE HAVE THE MASSIVE
PARTICLES GONE?

PHYS. LETT.,

V.135B, P.378-82. 1984.

KOLB, EDWARD W., JR. (T-6)

SLANSKY, RICHARD C. (T-8)

48-25

DIRECT OBSERVATIONS OF PASSAGES OF THE
DISTANCE NEUTRAL LINE (80 - 140 R E)
FOLLOWING SUBSTORM ONSETS - ISEE -3.

GEOPHYS. RES. LETT.,

V.11, P.1042-5. 1984.

BAKER, DANIEL N. (ESS-8)

BAME, SAMUEL J., JR. (ESS-8)

BIRN, J.

FELDMAN, WILLIAM C. (ESS-8)

GOSLING, JOHN T. (ESS-8)

HONES, EDWARD W., JR. (ESS-8)

ZWICKL, RONALD D. (ESS-8)

SLAVIN, J. A.

SMITH, E. J.

TSURUTANI, B. T.

SIBECK, D. G.

48-26

DISCOVERY OF A 176 DAY PERIOD IN
4U 1820 - 30.

ASTROPHYS. J.,

V.284, P.L17-20. 1984.

PRIEDHORSKY, WILLIAM C. (ESS-9)

TERRELL, NELSON JAMES (ESS-9)

48-27

DISCREPANCY IN THE CNO OPACITY BUMP
RESOLVED.

ASTROPHYS. J.,

V.283, P.466-8. 1984.

CARSON, T. R.

HUEBNER, WALTER F. (T-4)

MAGEE, NORMAN H. (T-4)

MERTS, ATHEL L. (T-4)

48-28

DOUBLE - MODE PULSATION.

PULSATIONS IN CLASSICAL AND
CATAclysmic VARIABLE STARS, 1982,
BOULDER. PROC., P.157-69. JOINT INST.
LAB. ASTROPHYS., 1982.

(523.844/P982CL/1982)

ALSO PUBLISHED IN:

TIC,

1982. 14P. MN (LA-UR-82-2304)

COX, ARTHUR N. (T-6)

48-29

DYNAMICAL CONSTRAINTS ON THE MASS AND
PERHELION DISTANCE OF NEMESIS AND THE
STABILITY OF ITS ORBIT.

NATURE,

V.311, P.636-8. 1984.

HILLS, JACK G. (T-6)

48-30

ELECTROMAGNETIC ION BEAM INSTABILITIES.

PHYS. FLUIDS,

V.27, P.1852-61. 1984.

GARY, S. PETER (ESS-8)

SMITH, CARL W.

LEE, M. A.

GOLDSTEIN, MELVYN L.

FORSLUND, DAVID W. (X-1)

48-31

ELECTRON HEATING AT INTERPLANETARY
SHOCKS.

SOLAR WIND 5, 1982, WOODSTOCK.

PROC., P.403-11. 1983. (NASA-CP-2280)

ALSO PUBLISHED IN:

TIC,

1982. 23P. MN (LA-UR-83-0259)

FELDMAN, WILLIAM C. (ESS-8)

ASBRIDGE, JOHN R. (ESS-8)

BAME, SAMUEL J., JR. (ESS-8)

GOSLING, JOHN T. (ESS-8)

ZWICKL, RONALD D. (ESS-8)

48-32

ELECTRON VELOCITY DISTRIBUTIONS NEAR
INTERPLANETARY SHOCKS.

J. GEOPHYS. RES.,

V.88, P.9949-58. 1983.

FELDMAN, WILLIAM C. (ESS-8)

ANDERSON, RICHARD C. (ESS-8)

BAME, SAMUEL J., JR. (ESS-8)

GOSLING, JOHN T. (ESS-8)

ZWICKL, RONALD D. (ESS-8)

SMITH, E. J.

48-33

ELECTRON VELOCITY DISTRIBUTIONS NEAR
COLLISIONLESS SHOCKS.

TIC,

1984. 40P. MN (LA-UR-84-1199)

FELDMAN, WILLIAM C. (ESS-8)

48-34

ELECTROSTATIC HISS AND THE BEAM DRIVEN
ELECTRON ACOUSTIC INSTABILITY IN THE
DAYSIDE POLAR CUSP.

GEOPHYS. RES. LETT.,

V.11, P.1180-3. 1984.

TOKAR, ROBERT L. (ESS-8)

GARY, S. PETER (ESS-8)

48-35

ENERGETIC PARTICLE TRANSPORT IN THE
UPSTREAM REGION OF JUPITER - VOYAGER
RESULTS.

J. GEOPHYS. RES.,

V.89A, P.3775-87. 1984.

BAKER, DANIEL N. (ESS-8)

ZWICKL, RONALD D. (ESS-8)

KRIMIGIS, S. M.

CARBARY, J. F.

ACUNA, M. H.

48-36

ENERGY DISTRIBUTIONS AND YIELDS OF
SECONDARY IONS AND ELECTRONS EMITTED
BY GIOTTO DURING HALLEY ENCOUNTER.

TIC,

1983. 9P. MN (LA-UR-83-2887)

YOUNG, DAVID T. (ESS-8)

48-37

EVIDENCE FOR SLOW - MODE SHOCKS IN THE
DEEP GEOMAGNETIC TAIL.

GEOPHYS. RES. LETT.,

V.11, P.599-602. 1984.

FELDMAN, WILLIAM C. (ESS-8)

SCHWARTZ, STEVEN J.

BAME, SAMUEL J., JR. (ESS-8)

BAKER, DANIEL N. (ESS-8)

BIRN, J.

GOSLING, JOHN T. (ESS-8)

HONES, EDWARD W., JR. (ESS-8)

MC COMAS, DAVID J. (ESS-8)

SLAVIN, J. A.

SMITH, E. J.

ZWICKL, RONALD D. (ESS-8)

48-39

EVOLUTION OF ION DISTRIBUTIONS ACROSS
THE NEARLY PERPENDICULAR BOW SHOCK—
SPECULARLY AND NON-SPECULARLY REFLECTED-
GYRATING IONS.

J. GEOPHYS. RES.,

V.88, P.6121-36. 1983.

SCKOPKE, N.

PASCHMANN, GOTZ

BAME, SAMUEL J., JR. (ESS-8)

GOSLING, JOHN T. (ESS-8)

RUSSELL, C. T.

48-40
EVOLUTION OF STRUCTURE IN THE PLACES
(POSITION LOCATION AND COMMUNICATION
EFFECTS SIMULATIONS) BARIUM CLOUDS.
LOS ALAMOS,
1984. 177P. (LA-09648-MS)
SIMONS, DAVID J. (ESS-7)
LEBEDA, CHARLES F.
PONGRATZ, MORRIS B. (ESS-8)
FITZGERALD, THOMAS JOSEPH
DUPRE, ROBERT R.

48-41
EVOLUTION OF THE EARTH'S DISTANT
MAGNETOTAIL — ISEE 3 ELECTRON PLASMA
RESULTS.

J. GEOPHYS. RES.,
V.89, P.11,007-12. 1984.
ZWICKL, RONALD D. (ESS-8)
BAKER, DANIEL N. (ESS-8)
BAME, SAMUEL J., JR. (ESS-8)
FELDMAN, WILLIAM C. (ESS-8)
GOSLING, JOHN T. (ESS-8)
HONES, EDWARD W., JR. (ESS-8)
MC COMAS, DAVID J. (ESS-8)
TSURUTANI, B. T.
SLAVIN, J. A.

48-42
EXOSAT - EUROPE'S NEW X - RAY
SATELLITE.
SKY TELESCOPE,
MAY, P.397-401. 1984.
CORDOVA, FRANCE ANNE (ESS-9)
MASON, K. O.

48-43
EXTENSION OF THE RECONNECTION THEORY
OF TWO - RIBBON SOLAR FLARES.
SOL. PHYS.,
V.93, P.352-61. 1984.
KOPP, ROGER ALAN (X-1)
POLETTI, G.

48-44
FIRM BOUNDS ON THE NEUTRINO MASS FROM
THE DISTRIBUTION OF DARK MATTER IN
GALAXIES.
ASTROPHYS. J.,
V.282, P.11-8. 1984.
MADSEN, J.
EPSTEIN, RICHARD I. (ESS-9)

48-45
FIRST - FLIGHT ESCAPE FROM SPHERES
WITH R MINUS 2 DENSITY DISTRIBUTION.
ASTRON. ASTROPHYS.,
V.135, P.177-80. 1984.
HUEBNER, WALTER F. (T-4)
KEADY, JOHN J. (T-4)

48-46
FLAT ROTATION CURVES ACCORDING TO THE
FRAGMENTATION/SHEAR FLOW MODEL OF
GALAXY FORMATION.
ASTROPHYS. SPACE SCI.,
V.105, P.109-29. 1984.
BROWN, WILBUR K. (P-15)

48-47
GALAXIES FROM POISSON FLUCTUATIONS.
ASTROPHYS. J.,
V.281, P.545-53. 1984.
EPSTEIN, RICHARD I. (ESS-9)

48-48
GAMMA BURST EMISSION FROM NEUTRON
STAR ACCRETION.
HIGH ENERGY TRANSIENTS IN
ASTROPHYSICS, 1983, SANTA CRUZ.
PROC., P.548-54. AIP, 1984.
(523.015/H638EN/1983)
ALSO PUBLISHED IN:
TIC,
1983. 8P. MN (LA-UR-83-2586)
COLGATE, STIRLING A. (T-6)
PETSCHKE, ALBERT G. (P-DO)
SARRACINO, ROBERT

48-49
GAMMA BURSTS.
NUMERICAL ASTROPHYSICS, 1982,
UNIV. OF ILL. PROC., P.171-4.
JONES & BARTLETT PUBL., 1982.
(523.01/N971AS/1982)
ALSO PUBLISHED IN:
TIC,
1982. 6P. MN (LA-UR-82-3596)
COLGATE, STIRLING A. (T-6)
PETSCHKE, ALBERT G. (P-DO)

48-50
HIGH-ENERGY PROTON DRIFT ECHOES-
MULTIPLE PEAK STRUCTURE.
J. GEOPHYS. RES.,
V.89, P.9101-6. 1984.
BELIAN, RICHARD D. (ESS-8)
BAKER, DANIEL N. (ESS-8)
HONES, EDWARD W., JR. (ESS-8)
HIGBIE, PAUL R. (ESS-8)

48-51
HISTORY OF X - RAY TRANSIENTS AS SEEN
BY VELA, 1969 - 1979.
ANN. N. Y. ACAD. SCI.,
V.422, P.282-3. 1984.
TERRELL, NELSON JAMES (ESS-9)
PRIEDHORSKY, WILLIAM C. (ESS-9)
BELIAN, RICHARD D. (ESS-8)
CONNER, JERRY P. (ESS-DO)
EVANS, W. DOYLE (ESS-9)

48-52
HRTS II EUV OBSERVATIONS OF A SOLAR
EPHEMERAL REGION.
ASTROPHYS. J.,
V.278, P.428-40. 1984.
ROUSSEL-DUPRE, ROBERT (ESS-7)
WRATHALL, JAY
NICOLAS, K. R.
BARTOE, J. D. F.
BRUECKNER, G. E.

48-53
IMPLICATIONS OF THE 1100 UT MARCH 22,
1979 CDAW 6 SUBSTORM EVENT FOR THE
ROLE OF MAGNETIC RECONNECTION IN THE
GEOMAGNETIC TAIL.
MAGNETIC CONNECTION IN SPACE AND
LABORATORY PLASMAS, 1983, LOS ALAMOS.
PROC., P.203-7. AGU, 1984.
(538.766/M196RE/1983)
ALSO PUBLISHED IN:
TIC,
1983. 18P. MN (LA-UR-83-3498)
FRITZ, T. A. (ESS-8)
BAKER, DANIEL N. (ESS-8)
MC PHERRON, R. L.
LENNARTSSON, W.

48-54
INTERACTION OF COSMIC RAY SECONDARIES
IN EXTRATERRESTRIAL MATTER - SIMULATIONS
WITH HIGH ENERGY PROTONS AND NEUTRONS.
TERRA COGNITA,
V.3, P.74. 1983.
ENGLERT, P.
THEIS, S.
REEDY, ROBERT C. (INC-11)
ARNOLD, JAMES R.

48-55
INVERSE COMPTONIZATION VERSUS THERMAL
SYNCHROTRON.
HIGH ENERGY TRANSIENTS IN
ASTROPHYSICS, 1983, SANTA CRUZ.
PROC., P.590-6. AIP, 1984.
(523.015/H638EN/1983)
ALSO PUBLISHED IN:
TIC,
1983. 7P. MN (LA-UR-83-2844)
FENIMORE, EDWARD E. (ESS-9)
KLEBESADEL, RAY W. (ESS-9)
LAROS, JOHN G. (ESS-9)

48-56
INVESTIGATION OF LAMINAR SHOCKS.
TIC,
1984. 5P. MN (LA-UR-84-0892)
LEE, KENNETH (X-1)
ALDRICH, CHARLES H. (X-1)
BAME, SAMUEL J., JR. (ESS-8)
FORSLUND, DAVID W. (X-1)
GARY, S. PETER (ESS-8)
GOSLING, JOHN T. (ESS-8)
QUEST, KEVIN B. (X-1)
THOMSEN, MICHELLE F. (ESS-8)
WINSKE, DAN (X-1)
MELLOTT, M.

48-57
ION REFLECTION, GYRATION, AND
DISSIPATION AT SUPERCRITICAL SHOCKS.
TIC,
1984. 35P. MN (LA-UR-84-1391)
GOSLING, JOHN T. (ESS-8)
ROBSON, A. E.

- 48-58
IRON CORE COLLAPSE MODELS OF TYPE II SUPERNOVAE.
NUMERICAL ASTROPHYSICS, 1982, UNIV. OF ILL. PROC., P.403-21.
JONES & BARTLETT PUBL., 1982. (523.01/N971AS/1982)
BOWERS, RICHARD L. (X-2)
- 48-59
IS THE METAL CONTRIBUTION TO THE ASTROPHYSICAL OPACITY INCORRECT?
ASTROPHYS. J., V.283, P.264-72. 1984.
MAGEE, NORMAN H. (T-4)
MERTS, ATHEL L. (T-4)
HUEBNER, WALTER F. (T-4)
- 48-60
ISEE - 3 PLASMA MEASUREMENTS IN THE LOBES OF THE DISTANT GEOMAGNETIC TAIL - INFERENCES CONCERNING RECONNECTION AT THE DAYSIDE MAGNETOPAUSE.
MAGNETIC RECONNECTION IN SPACE AND LABORATORY PLASMAS, 1983, LOS ALAMOS. PROC., 1 P. AGU, 1984.
GOSLING, JOHN T. (ESS-8)
- 48-61
ISEE - 3 PLASMA MEASUREMENTS IN THE LOBE OF THE DISTANT GEOMAGNETIC TAIL - INFERENCES CONCERNING RECONNECTION AT THE DAYSIDE MAGNETOPAUSE.
MAGNETIC RECONNECTION IN SPACE AND LABORATORY PLASMAS, E.W. HONES, JR., ED., P.157-8. AGU, 1984. (538.766/M196RE/1983)
GOSLING, JOHN T. (ESS-8)
- 48-62
JOINT TIMING ANALYSIS OF A0535+26 AT 1980 OUTBURST.
HIGH ENERGY TRANSIENTS IN ASTROPHYSICS, 1983, SANTA CRUZ. PROC., P.146-9. AIP, 1984. (523.015/H638EN/1983)
ALSO PUBLISHED IN:
TIC, 1983. 5P. MN (LA-UR-83-2681)
KAWAI, N. (ESS-9)
NAGASE, F.
- 48-63
JOURNEYS OF A SPACECRAFT.
LOS ALAMOS SCI., SPRING, NO.10, P.33-55. 1984.
GOSLING, JOHN T. (ESS-8)
BAKER, DANIEL N. (ESS-8)
HONES, EDWARD W., JR. (ESS-8)
- 48-64
KINETIC THEORY OF CURRENT AND DENSITY DRIFT IN INSTABILITIES WITH WEAK CHARGED - NEUTRAL COLLISIONS.
J. GEOPHYS. RES., V.89A, P.179-86. 1984.
GARY, S. PETER (ESS-8)
- 48-65
LABORATORY SIMULATION OF UNMAGNETIZED SUPERNOVA REMNANTS - ABSENCE OF A BLAST WAVE.
ASTROPHYS. J., V.280, P.802-8. 1984.
BOROVSKY, JOSEPH E. (ESS-8)
PONGRATZ, MORRIS B. (ESS-8)
ROUSSEL-DUPRE, ROBERT (ESS-7)
TAN, TAI HO (P-4)
- 48-66
LOG N-LOG S IS INCONCLUSIVE.
HIGH ENERGY TRANSIENTS IN ASTROPHYSICS, 1983, SANTA CRUZ. PROC., P.429-33. AIP, 1984. (523.015/H638EN/1983)
ALSO PUBLISHED IN:
TIC, 1983. 6P. MN (LA-UR-83-2776)
KLEBESADEL, RAY W. (ESS-9)
FENIMORE, EDWARD E. (ESS-9)
LAROS, JOHN G. (ESS-9)
- 48-67
LONG-TERM OBSERVATIONS OF X-RAY SOURCES - THE AQUILA - SERPENS-SCUTUM REGION.
ASTROPHYS. J., V.28D, P.661-70. 1984.
PRIEDHORSKY, WILLIAM C. (ESS-9)
TERRELL, NELSON JAMES (ESS-9)
- 48-68
MICROINSTABILITIES IN THE HIGH LATITUDE F REGION - A BRIEF REVIEW.
TIC, 1983. 32P. MN (LA-UR-83-2997)
GARY, S. PETER (ESS-8)
- 48-69
MICROPROBE ANALYSES OF RARE EARTH ELEMENT FRACTIONATION IN METEORITIC MINERALS.
NUCL. INSTRUM. METHODS, V.B3, P.677-80. 1984.
ALSO PUBLISHED IN:
TIC, 1983. 18P. MN (LA-UR-83-2368)
BENJAMIN, TIMOTHY M. (INC-7)
DUFFY, CLARENCE J. (INC-11)
MAGGIORE, CARL J. (E-11)
ROGERS, PAMELA S. Z. (INC-7)
WOOLUM, D. S.
BURNETT, D. S.
MURRELL, M. T.
- 48-70
MICROTHEORY OF COLLISIONLESS SHOCK CURRENT LAYERS.
TIC, 1984. 43P. MN (LA-UR-84-0512)
WINSKE, DAN
- 48-71
MULTIFREQUENCY OBSERVATIONS OF THE BL LACERTAE OBJECTS OQ 530 AND ON 325.
ASTROPHYS. J., V.284, P.512-8. 1984.
WORRALL, D. M.
PUSCHELL, J. J.
BRUHWEILER, F. C.
SITKO, M. L.
STEIN, W. A.
ALLER, M. F.
ALLER, H. D.
HODGE, P. E.
RUDY, R. J.
MILLER, H. R.
WISNIEWSKI, W. Z.
CORDOVA, FRANCE ANNE (ESS-9)
MASON, K. O.
- 48-72
MULTIPLE SPACECRAFT OBSERVATIONS OF INTERPLANETARY SHOCKS — ISEE THREE-DIMENSIONAL PLASMA MEASUREMENTS.
J. GEOPHYS. RES., V.88, P.9941-7. 1983.
RUSSELL, C. T.
GOSLING, JOHN T. (ESS-8)
ZWICKL, RONALD D. (ESS-8)
SMITH, E. J.
- 48-73
MULTIPLE SPACECRAFT OBSERVATIONS OF INTERPLANETARY SHOCKS — CHARACTERISTICS OF THE UPSTREAM ULF TURBULENCE.
SOLAR WIND 5, 1982, WOODSTOCK. PROC., P.385-99. 1983. (NASA-CP-2280)
ALSO PUBLISHED IN:
TIC, 1982. 17P. MN (LA-UR-83-1172)
RUSSELL, C. T.
SMITH, E. J.
TSURUTANI, B. T.
GOSLING, JOHN T. (ESS-8)
BAME, SAMUEL J., JR. (ESS-8)
- 48-74
NASA DATA SYSTEMS USERS WORKING GROUP-RECOMMENDATIONS FOR IMPROVED SCIENTIFIC INTERACTIONS.
EOS, V.65, NO.6, P.46. 1984.
BAKER, DANIEL N. (ESS-8)
ZWICKL, RONALD D. (ESS-8)
GREEN, J. L.
- 48-75
NEW OBSERVATION OF TWO-HOLE CORE-LEVEL SATELLITES IN COPPER, SILVER, AND GOLD.
PHYS. REV., V.29B, P.4800-2. 1984.
MARTENSSON, NILS
NYHOLM, RALF
JOHANSSON, BORJE

- 48-76
NUCLEAR PHYSICS PROBLEMS FOR ACCRETING
NEUTRON STARS.
TIC,
1983. 7P. MN (LA-UR-83-2486)
WALLACE, RICHARD K. (X-2)
WOOSLEY, S. E.
- 48-77
NUMERICAL SIMULATIONS OF CONVECTIVELY
EXCITED GRAVITY WAVES.
TIC,
1983. 11P. MN (LA-UR-83-2896)
GLATZMAIER, GARY ANDREW (T-6)
- 48-78
NUMERICAL SIMULATIONS OF STELLAR
CONVECTIVE DYNAMOS - 1. THE MODEL AND
METHOD.
J. COMPUT. PHYS.,
V.55, P.461-83. 1984.
GLATZMAIER, GARY ANDREW (T-6)
- 48-79
OBSERVATIONS AND A NEW INTERPRETATION
FOR THE DELTA SCUTI VARIABLE STAR VZ
CANCRI.
ASTROPHYS. J.,
V.284, P.250-6. 1984.
COX, ARTHUR N. (T-6)
MC NAMARA, BERNARD J.
RYAN, WILLIAM
- 48-80
OBSERVATIONS OF AN IONOSPHERIC
PERTURBATION ARISING FROM THE COALINGA
EARTHQUAKE OF MAY 2, 1983.
J. GEOPHYS. RES.,
V.89A, P.6835-9. 1984.
WOLCOTT, JOHN H. (ESS-7)
SIMONS, DAVID J. (ESS-7)
LEE, D. D.
NELSON, R. A.
- 48-81
OBSERVATIONS OF QUASI - COHERENT SOFT
X - RAY OSCILLATIONS IN U GEMINORUM
AND SS CYGNI.
ASTROPHYS. J.,
V.278, P.739-53. 1984.
CORDOVA, FRANCE ANNE (ESS-9)
CHESTER, T. J.
MASON, K. O.
KAHN, S. M.
GARMIRE, G. P.
- 48-82
OBSERVATIONS OF THE INTERSTELLAR ICE
GRAIN FEATURE IN THE TAURUS MOLECULAR
CLOUDS.
TIC,
1983. 9P. MN (LA-UR-83-3621)
WHITTET, D. C. B.
BODE, M. F. (ESS-9)
LONGMORE, A. J.
BAINES, D. W. T.
EVANS, A.
- 48-83
OBSERVATORY REPORT.
BULL. AM. ASTRON. SOC.,
V.16, P.185-93. 1984.
COX, ARTHUR N. (T-6)
HILLS, JACK G. (T-6)
- 48-84
ON THE PRODUCTION OF TECHNETIUM IN
THERMALLY PULSING RED GIANT STARS.
ASTROPHYS. J.,
V.283, P.313-5. 1984.
COSNER, KENNETH R.
DESPAIN, KEITH HOWARD (X-2)
TRURAN, JAMES W.
- 48-85
PARTICLE AND FIELD SIGNATURES OF
SUBSTORMS IN THE NEAR MAGNETOTAIL.
MAGNETIC RECONNECTION IN SPACE AND
LABORATORY PLASMAS, 1983, LOS ALAMOS.
PROC., P.193-201. AGU, 1984.
(538.766/M196RE/1983)
ALSO PUBLISHED IN:
TIC,
1983. 44P. MN (LA-UR-83-3239)
BAKER, DANIEL N. (ESS-8)
- 48-86
PHASE SEPARATION IN A CHONDRULE FRAGMENT
FROM THE PIANCOLDOLI (LL3) CHONDRITE.
CHONDRULES AND THEIR ORIGINS,
E.A. KING, ED., P.235-41. LPI, 1983.
PLANNER, H. N. (ESS-2)
- 48-87
PLASMA ENTRY INTO THE DISTANT TAIL LOBES
ISEE -3.
GEOPHYS. RES. LETT.,
V.11, P.1078-81. 1984.
GOSLING, JOHN T. (ESS-8)
BAKER, DANIEL N. (ESS-8)
BAME, SAMUEL J., JR. (ESS-8)
HONES, EDWARD W., JR. (ESS-8)
MC COMAS, DAVID J. (ESS-8)
ZWICKL, RONALD D. (ESS-8)
SLAVIN, J. A.
SMITH, E. J.
TSURUTANI, B. T.
- 48-88
PLASMA PROPERTIES OF DRIVER GAS
FOLLOWING INTERPLANETARY SHOCKS OBSERVED
BY ISEE-3.
SOLAR WIND 5, 1982, WOODSTOCK.
PROC., P.711-7. 1983. (NASA-CP-2280)
ALSO PUBLISHED IN:
TIC,
1982. 14P. MN (LA-UR-83-0348)
ZWICKL, RONALD D. (ESS-8)
ASBRIDGE, JOHN R. (ESS-8)
BAME, SAMUEL J., JR. (ESS-8)
FELDMAN, WILLIAM C. (ESS-8)
GOSLING, JOHN T. (ESS-8)
SMITH, E. J.
- 48-89
PLASMA SHEET BEHAVIOR DURING SUBSTORMS.
MAGNETIC RECONNECTION IN SPACE AND
LABORATORY PLASMAS, 1983, LOS ALAMOS.
PROC., P.178-84. AGU, 1984.
(538.766/M196RE/1983)
ALSO PUBLISHED IN:
TIC,
1983. 30P. MN (LA-UR-83-3361)
HONES, EDWARD W., JR. (ESS-8)
- 48-90
POPULATION II CEPHEIDS.
PUBL. ASTRON. SOC. PAC.,
V.96, P.677-91. 1984.
WALLERSTEIN, GEORGE
COX, ARTHUR N. (T-6)
- 48-91
POWER DISSIPATION AT SLOW - MODE SHOCKS
IN THE DISTANT GEOMAGNETIC TAIL.
GEOPHYS. RES. LETT.,
V.11, P.1058-61. 1984.
FELDMAN, WILLIAM C. (ESS-8)
BAKER, DANIEL N. (ESS-8)
BAME, SAMUEL J., JR. (ESS-8)
BIRN, J.
HONES, EDWARD W., JR. (ESS-8)
SCHWARTZ, STEVEN J.
TOKAR, ROBERT L. (ESS-8)
- 48-92
PREDICTION OF NONLINEAR STRUCTURAL
RESPONSE IN LMFBR ELEVATED - TEMPERATURE
PIPING. LOS ALAMOS,
1984. 22P. (LA-10090-MS)
FARRAR, CHARLES R (Q-13)
- 48-93
RADIATIVELY DRIVEN DUST - BOUNDED
IMPLOSIONS - FORMATION AND STABILITY
OF DENSE GLOBULES.
ASTROPHYS. J.,
V.282, P.178-90. 1984.
SANDFORD, MAXWELL T. (ESS-5)
WHITAKER, RODNEY W. (ESS-5)
KLEIN, RICHARD I.
- 48-94
RELATIVISTIC CHROMOHYDRODYNAMICS AND
YANG-MILLS VLASOV PLASMA.
PHYS. LETT.,
V.105A, P.225-8. 1984.
HOLM, DARRYL D. (CNLS)
KUPERSHIMDT, BORIS ABRAM (CNLS)
- 48-95
REPLY (TO RICE ON THE STABILITY OF
SHEAR CRACKS AND THE ...)
J. GEOPHYS. RES.,
V.89B, P.2508. 1984.
DIENES, JOHN K. (T-3)
- 48-96
REPORT OF THE LUNAR BASE WORKING GROUP,
APRIL 23 - 27, 1984.
LOS ALAMOS,
1984. 41P. (LALP-84-043)
DUKE, MICHAEL B.
MENDELL, WENDELL W.
KEATON, P. W., JR. (ADPA)

48-97
REPORT ON THE CHAPMAN CONFERENCE ON
MAGNETIC RECONNECTION.

EOS,
V.65, NO.13, P.124-5. 1984.
HONES, EDWARD W., JR. (ESS-8)

48-98
REVIEW OF ASTROPHYSICAL RESEARCH AT
LOS ALAMOS.

TIC,
1983. 7P. MN (LA-UR-83-2329)
KIRKPATRICK, RONALD C. (X-2)

48-99
REVIEW OF RADIO - FREQUENCY, NONLINEAR
EFFECTS ON THE IONOSPHERE.

TIC,
1983. 13P. MN (LA-UR-83-3368)
GORDON, WILLIAM E.
DUNCAN, LEWIS M. (ESS-7)

48-100
ROLE OF THE RADIATION PRESSURE
GRADIENT IN GIANT AND SUPERGIANT
STAR EVOLUTION.

TIC,
1983. 4P. MN (LA-UR-83-2969)
BRUNISH, WENDEE M. (T-6)
COX, ARTHUR N. (T-6)
BECKER, STEPHEN A. (X-2)
DESPAIN, KEITH HOWARD (X-2)

48-101
SEARCH FOR YOUNG, LUMINOUS OPTICAL
PULSARS IN EXTRAGALACTIC SUPERNOVA
REMNANTS.

ASTROPHYS. J.,
V.279, P.157-61. 1984.
MIDDLEDITCH, JOHN (ESS-9)
KRISTIAN, JEROME

48-102
SIMULATION OF STATIONARY AND TRANSIENT
GEOPOTENTIAL - HEIGHT EDDIES IN JANUARY
AND JULY WITH A SPECTRAL GENERAL
CIRCULATION MODEL.

J. ATMOS. SCI.,
V.41, P.1394-1418. 1984.
MALONE, ROBERT C. (CTR-6)
PITCHER, ERIC J.
BLACKMON, MAURICE L.
PURI, KAMAL
BOURKE, WILLIAM

48-103
SOLAR FLARES - AN EXTREMUM OF
RECONNECTION.

MAGNETIC RECONNECTION IN SPACE AND
LABORATORY PLASMAS, 1983, LOS ALAMOS.
PROC., P.193-201. AGU, 1984.
(538.766/M196RE/1983)
ALSO PUBLISHED IN:
TIC,
1983. 11P. MN (LA-UR-83-3704)
COLGATE, STIRLING A. (T-6)

48-104
SOLITON COLLAPSE DURING IONOSPHERIC
HEATING.

TIC,
1984. 5P. MN (LA-UR-84-1067)
SHEERIN, J. P.
NICHOLSON, DWIGHT R.
PAYNE, GERALD L.
DUNCAN, LEWIS M. (ESS-7)

48-105
SOLITON STRUCTURE IN CRYSTALLINE
ACETANILIDE.

PHYS. REV.,
V.30B, P.4703-12. 1984.
EILBECK, J. CHRIS (CNLS)
LOMDAHL, PETER S. (CNLS)
SCOTT, ALWYN C. (CNLS)

48-106
SOME INVESTIGATIONS ABOUT THE CARSON
OPACITIES.

OBSERVATIONAL TESTS OF THE STELLAR
EVOLUTION THEORY, A. MAEDER & A.
RENZINI, ED., P.41-6. D. REIDEL PUB.
CO. 1984. (523.8/O14TE/1983)
ALSO PUBLISHED IN:
TIC,
1983. 6P. MN (LA-UR-83-3216)
COX, ARTHUR N. (T-6)
KIDMAN, RUSSELL B. (T-6)

48-107
SOME OBSERVABLE INDICATORS OF
S - PROCESS ENVIRONMENTS.

TIC,
1983. 4P. MN (LA-UR-83-2930)
DESPAIN, KEITH HOWARD (X-2)

48-108
STABILITY OF THE LOW DEGREE FIVE MINUTE
SOLAR OSCILLATIONS.

TIC,
1983. 10P. MN (LA-UR-83-3217)
KIDMAN, RUSSELL B. (T-6)
COX, ARTHUR N. (T-6)

48-109
STRUCTURE OF THE MAGNETOTAIL AT 220 R E
AND ITS REPOSE TO GEOMAGNETIC ACTIVITY.

GEOPHYS. RES. LETT.,
V.11, P.5-7. 1984.
HONES, EDWARD W., JR. (ESS-8)
BAKER, DANIEL N. (ESS-8)
BAME, SAMUEL J., JR. (ESS-8)
FELDMAN, WILLIAM C. (ESS-8)
GOSLING, JOHN T. (ESS-8)
MC COMAS, DAVID J. (ESS-8)
ZWICKL, RONALD D. (ESS-8)
SLAVIN, J. A.
SMITH, E. J.
TSURUTANI, B. T.

48-110
SUPERNOVA ENVELOPE SHOCK ORIGIN OF
COSMIC RAYS - A REVIEW.

ADV. SPACE RES.,
V.4, P.367-9. 1984.
COLGATE, STIRLING A. (T-6)

48-111
SUPRATHERMAL IONS UPSTREAM FROM
INTERPLANETARY SHOCKS.

J. GEOPHYS. RES.,
V.89A, P.5409-18. 1984.
GOSLING, JOHN T. (ESS-8)
BAME, SAMUEL J., JR. (ESS-8)
FELDMAN, WILLIAM C. (ESS-8)
PASCHMANN, GOTZ
SCKOPKE, N.
RUSSELL, C. T.

48-112
SYNTHESIS OF COMPLEX MOLECULES IN DENSE
INTERSTELLAR CLOUDS VIA GAS-PHASE
CHEMISTRY — A PSEUDO TIME-DEPENDENT
CALCULATION.

ASTROPHYS. J. SUPPL. SER.,
V.56, P.231-56. 1984.
LEUNG, CHUN MING
HERBST, ERIC
HUEBNER, WALTER F. (T-4)

48-113
TEN YEARS OF VELA X - RAY
OBSERVATIONS.

HIGH ENERGY TRANSIENTS IN
ASTROPHYSICS, 1983, SANTA CRUZ.
PROC., P.76-9. AIP, 1984.
(523.015/H638EN/1983)
ALSO PUBLISHED IN:
TIC,
1983. 5P. MN (LA-UR-83-2777)
TERRELL, NELSON JAMES (ESS-9)
PRIEDHORSKY, WILLIAM C. (ESS-9)

48-114
THEORETICAL CALCULATION OF RAPID
X - RAY TRANSIENTS AND RADIUS
EXPANSION.

HIGH ENERGY TRANSIENTS IN
ASTROPHYSICS, 1983, SANTA CRUZ.
PROC., P.298-301. AIP, 1984.
(523.015/H638EN/1983)
ALSO PUBLISHED IN:
TIC,
1983. 4P. MN (LA-UR-83-2744)
STARRFIELD, S.
SPARKS, WARREN M. (X-5)
TRURAN, JAMES W.
KENYON, S.

48-115
THREE - DIMENSIONAL COMPUTER MODELING
OF DYNAMIC RECONNECTION IN THE
MAGNETOTAIL - PLASMOID SIGNATURES IN
THE NEAR AND DISTANT TAIL.

MAGNETIC RECONNECTION IN SPACE AND
LABORATORY PLASMAS, 1983, LOS ALAMOS.
PROC., P.264-70. AGU, 1984.
(538.766/M196RE/1983)
ALSO PUBLISHED IN:
TIC,
1983. 42P. MN (LA-UR-84-0729)
BIRN, J.

48-116
TWO- AND THREE-DIMENSIONAL NUMERICAL
SIMULATIONS OF THE HYDRODYNAMIC PHASE
OF THE CORE HELIUM FLASH.

ASTROPHYS. J.,
V.287, P.268-81. 1984.
DEUPREE, ROBERT G. (ESS-5)

48-117
TWO- AND THREE-DIMENSIONAL NUMERICAL
SIMULATIONS OF THE CORE HELIUM FLASH.

ASTROPHYS. J.,
V.282, P.274-86. 1984.
DEUPREE, ROBERT G. (ESS-5)

48-118
WAVE-PARTICLE TRANSPORT FROM DENSITY
DRIFT INSTABILITIES, A COMPARISON OF
LOCAL AND NONLOCAL THEORIES.

J. GEOPHYS. RES.,
V.89A, P.2936-44. 1984.
BERNHARDT, PAUL A. (ESS-7)

48-119
X - RAY EMISSION FROM CENTAURUS A.
X-RAY AND UV EMISSION FROM ACTIVE
GALACTIC NUCLEI, 1984, GARCHING.
PROC., P.102-4. MPI, 1984.
TERRELL, NELSON JAMES (ESS-9)

48-120
X-RAY OBSERVATIONS OF A LARGE SAMPLE
OF CATAclysmic VARIABLE STARS USING
THE EINSTEIN OBSERVATORY.

MON. NOT. R. ASTRON. SOC.,
V.206, P.879-97. 1984.
CORDOVA, FRANCE ANNE (ESS-9)
MASON, K. O.

48-121
X-RAY TEST OF MULTILAYER COATED OPTICS.
STANFORD SYNCHROTRON RADIATION LAB.
ACTIVITY REPORT FOR APRIL 1, 1983
DECEMBER 31, 1983. K. CANTWELL, ED.,
P.IX-81. SSRL, 1983. (SSRL-84/01)

GOLUB, L.
SPILLER, EBERHARD
BARTLETT, ROGER J. (P-14)
KANIA, DON R. (P-14)
TRELA, WALTER J. (P-DO)

48-122
1973 X - RAY TRANSIENT VO332+53.

ASTROPHYS. J.,
V.285, P.L15-8. 1984.
TERRELL, NELSON JAMES (ESS-9)
PRIEDHORSKY, WILLIAM C. (ESS-9)

48-123
3 - 10 KEV AND 0.1 TO 2 MEV
OBSERVATIONS OF FOUR GAMMA - RAY BURSTS.
HIGH ENERGY TRANSIENTS IN
ASTROPHYSICS, 1983, SANTA CRUZ.
PROC., P.378-89. AIP, 1984.
(523.015/H638EN/1983)

ALSO PUBLISHED IN:
TIC,
1983. 13P. MN (LA-UR-83-2657)
LARIOS, JOHN G. (ESS-9)
EVANS, W. DOYLE (ESS-9)
FENIMORE, EDWARD E. (ESS-9)
KLEBESADEL, RAY W. (ESS-9)
SHULMAN, S.
FRITZ, G.

48-124
3 KEV TO 2 MEV OBSERVATIONS OF FOUR
GAMMA - RAY BURSTS.

ASTROPHYS. J.,
V.286, P.681-90. 1984.
LARIOS, JOHN G. (ESS-9)
EVANS, W. DOYLE (ESS-9)
FENIMORE, EDWARD E. (ESS-9)
KLEBESADEL, RAY W. (ESS-9)
SHULMAN, S.
FRITZ, G.

49. PHYSICS—GENERAL

- 49-1
"INDEPENDENT-PAIR" PROPERTY OF
CONDENSED COHERENT FERMION PAIRS
AND DERIVATION OF THE IBM QUADRUPOLE
OPERATOR.
PHYS. LETT.,
V.138B, P.1-5. 1984.
OTSUKA, TAKAHARU (T-5)
- 49-2
ANALYSIS OF ANELASTIC RELAXATIONS
CONTROLLED BY A SPECTRUM OF RELAXATION
TIMES.
TIC,
1983. 26P. MN (LA-UR-84-0138)
COST, JAMES RICHARD (MST-5)
- 49-3
APPARATUS AND METHOD FOR QUANTITATIVE
MEASUREMENT OF SMALL DIFFERENCES IN
OPTICAL ABSORPTIVITY BETWEEN TWO SAMPLES
USING DIFFERENTIAL INTERFEROMETRY AND
THE THERMOOPTIC EFFECT.
PATENTED
MAY 8, 1984, FILED 1982.
(U.S.PATENT-4,447,153)
CREMERS, DAVID A. (CHM-4)
KELLER, RICHARD A. (CHM-2)
- 49-4
APPARATUS TO DETERMINE THE HEAT CAPACITY
AND THERMAL CONDUCTIVITY OF A MATERIAL
FROM 1 TO 300 K IN MAGNETIC FIELDS UP
TO 9 T.
ADVANCES IN CRYOGENIC ENGINEERING,
1983. COLORADO SPRINGS.
PROC., P.425-32. PLENUM, 1984.
ALSO PUBLISHED IN:
TIC,
1983. 9P. MN (LA-UR-83-2378)
BARCLAY, JOHN A. (P-10)
STEWART, WALTER F. (P-10)
OVERTON, WILLIAM C., JR. (P-10)
CHESEBOROUGH, ROBERT (P-10)
MC CRAY, MARK S. (P-10)
MC MILLAN, DEAN E. (P-9)
- 49-5
BREATHERS AND PHOTOINDUCED ABSORPTION
IN POLYACETYLENE.
PHYS. REV. LETT.,
V.52, P.671-4. 1984.
BISHOP, ALAN R. (T-11)
CAMPBELL, DAVID K. (CNLS)
LOMDAHL, PETER S. (CNLS)
HOROVITZ, BARUCH
PHILLPOT, SIMON R.
- 49-6
CALCULATION OF SHOCK PROBLEMS BY USING
FOUR DIFFERENT SCHEMES.
TIC,
1984. 12P. MN (LA-UR-84-0344)
LEE, WEN HO (X-7)
WHALEN, PAUL P. (X-DO)
- 49-7
CALCULATION OF STRUCTURES AND MAGNETIC
ORIENTATIONS IN SOLID ALPHA AND
BETA - OXYGEN 2 AS A FUNCTION OF
PRESSURE.
TIC,
1983. 7P. MN (LA-UR-83-2241)
ETTERS, RICHARD D. (M-6)
HELMY, A.
KOBASHI, K.
- 49-8
CAPABILITIES OF BROADLY - TUNABLE
FREE - ELECTRON LASERS.
NEW LASERS FOR ANALYTICAL AND
INDUSTRIAL CHEMISTRY, 1984,
LOS ANGELES. PROC., P.90-5. SPIE,
1984.
ALSO PUBLISHED IN:
TIC,
1984. 19P. MN (LA-UR-84-1104)
NEWMAM, BRIAN E. (CHM-6)
- 49-9
CIRCULAR FREE-ELECTRON LASER.
PATENTED
APR. 10, 1984, FILED 1982.
(U.S.PATENT-4,442,522)
BRAU, CHARLES A. (AT-DO)
KURNIT, NORMAN A. (CHM-6)
COOPER, RICHARD K. (AT-6)
- 49-10
CLASSICAL AND QUANTUM HARD SPHERE
FLUIDS - THEORY AND EXPERIMENT.
ANN. PHYS.,
V.153, P.283-98. 1983.
BAKER, GEORGE A., JR. (T-11)
GUTIERREZ, G.
DE LLANO, M.
- 49-11
COHERENT DENSITY GRADIENTS IN WATER
COMPRESSED BY A MODULATED SHOCK WAVE.
PHYS. FLUIDS,
V.27, P.2390-3. 1984.
BENJAMIN, ROBERT F. (M-6)
TREASE, HAROLD (X-7)
SHANER, J. W. (M-6)
- 49-12
COLLECTIVE, STOCHASTIC AND
NONEQUILIBRIUM BEHAVIOR OF
HIGHLY EXCITED HADRONIC MATTERS.
NUCL. PHYS.,
V.A418, P.501C-23C. 1984.
ALSO PUBLISHED IN:
TIC,
1983. 24P. MN (LA-UR-83-3067)
CARRUTHERS, PETER A. (T-DO)
- 49-13
COMPILATION OF INTERIM TECHNICAL
RESEARCH MEMORANDA - I.
LOS ALAMOS,
1984. 35P. (LA-10084-MS, VOL. 1)
SHANAHAN, WILLIAM R. (X-8)
- 49-14
COMPRESSION OF SOLID NITROGEN AT
296 K FROM 5 TO 10 GPa.
J. CHEM. PHYS.,
V.80, P.1309-11. 1984.
OLINGER, BARTON W. (M-6)
- 49-15
COMPTON SCATTERING OF PHOTONS FROM
ELECTRONS IN THERMAL (MAXWELLIAN)
MOTION - ELECTRON HEATING.
LOS ALAMOS,
1984. 45P. (LA-10065-MS)
DEVANEY, JOSEPH J. (X-6)
- 49-16
COMPUTERIZED STUDY OF SEVERAL
ELECTROSTATIC, SURFACE - IONIZATION
ION SOURCE CONFIGURATIONS.
LOS ALAMOS,
1984. 27P. (LA-10107)
BALESTRINI, SILVIO J. (CNC-11)
SCHUSTER, BURTON G. (H-5)
- 49-17
CRITICAL DYNAMICS NEAR THE OSCILLATORY
INSTABILITY IN RAYLEIGH - BENARD
CONVECTION.
PHYS. REV. LETT.,
V.53, P.1567-70. 1984.
ECKE, R. (P-10)
MAENO, YOSHITERU
HAUCKE, HANS
WHEATLEY, JOHN C. (P-10)

- 49-18
CRYSTAL BOX - RARE DECAYS OF THE MUON.
LOW ENERGY TESTS OF CONSERVATION
LAWS IN PARTICLE PHYSICS, 1983,
BLACKSBURG. PROC., P.242-53. AIP,
1984. (539.72/L912EN/1983)
BOLTON, RICHARD D. (MP-4)
CARLINI, ROGER D. (MP-4)
BOWMAN, J. DAVID (MP-4)
COOPER, MARTIN D. (MP-4)
HALLIN, AKSEL (MP-4)
FRANK, JAMES S. (MP-4)
HOFFMAN, CYRUS M. (MP-4)
MATIS, H. S. (MP-4)
MISCHKE, RICHARD E. (MP-4)
NAGLE, DARRAGH E. (MP-DO)
MARIAM, FRANK (MP-13)
SANDBERG, V. D. (MP-4)
SENNHAUSER, URS (MP-4)
SANDERS, GARY H (MP-13)
WERBECK, RICHARD D. (MP-7)
WILLIAMS, ROBERT
HOFSTADTER, R.
HUGHES, E. BARRIE
WILSON, JOHN
ROLFE, J. R.
WRIGHT, S. C.
GROSNICK, D.
HOGAN, GARY E. (MP-13)
HIGHLAND, V. L.
VAN, M.
- 49-19
DELTA. THE FIRST PION NUCLEON RESONANCE.
ITS DISCOVERY AND APPLICATIONS.
LOS ALAMOS,
1984. 10P. (LALP-84-027)
NAGLE, DARRAGH E. (MP-DO)
- 49-20
DENSE MOLECULAR THERMODYNAMICS.
TIC,
1983. 5P. MN (LA-UR-83-2232)
JOHNSON, JAMES D. (T-4)
SHAW, MILTON S. (T-14)
HOLIAN, BRAD LEE (T-4)
- 49-21
DETECTION OF FREE SURFACE MOTION USING
A MASKED APERTURE TECHNIQUE.
REV. SCI. INSTRUM.,
V.55, P.1301-3. 1984.
WINKLER, MAX A. (M-5)
HIXSON, ROBERT S. (X-5)
SHANER, J. W. (M-6)
- 49-22
DEVICE AND METHOD FOR SEPARATING
OXYGEN ISOTOPES.
PATENTED
MAR. 20, 1984, FILED 1978.
(U.S.PATENT-4,437,958)
ROCKWOOD, STEPHEN D. (NSP/IF)
SANDER, ROBERT K. (CHM-4)
- 49-23
DRAG OF EVAPORATING OR CONDENSING
DROPLETS IN LOW REYNOLDS NUMBER FLOW.
PHYS. FLUIDS.
V.27, P.1351-7. 1984.
DUKOWICZ, JOHN K. (T-3)
- 49-24
EDXD STUDIES AT HIGH PRESSURES AND
CRYOGENIC TEMPERATURES USING SYNCHROTRON
RADIATION - APPLICATION TO THE TWO
CRITICAL POINTS IN BETA - ALPHA PHASE
BOUNDARY OF CERIUM ALLOYS.
STANFORD SYNCHROTRON RADIATION LAB.
ACTIVITY REPORT FOR APRIL 1, 1982-
MARCH 31, 1983.
P.VII-32-3. SSRL, 1983. (SSRL-83/01)
SKELTON, E. F.
WEBB, A. W.
ELAM, WEST T.
WOLF, S. A.
QADRI, SYED B.
HUANG, CHAO YUAN (P-10)
CHAIKIN, PAUL M.
LACOE, RONALD C.
GSCHNEIDNER, KARL A.
- 49-25
EFFECTIVE SPHERICAL POTENTIALS FOR
DETONATION PRODUCTS EOS.
TIC,
1983. 12P. MN (LA-UR-83-2541)
SHAW, MILTON S. (T-14)
HOLIAN, BRAD LEE (T-4)
JOHNSON, JAMES D. (T-4)
- 49-26
EFFECTS OF FOCUSING ON HRS FOCAL - PLANE
POLARIMETER MEASUREMENTS.
LOS ALAMOS,
1984. 25P. (LA-10153-MS)
FERGERSON, RAYMOND W. (MP-10)
- 49-27
EFFECTS OF MICROSTRUCTURE ON THE SPEED
AND ATTENUATION OF ELASTIC WAVES - SOME
RESULTS FOR POROUS MATERIALS.
REVIEW OF PROGRESS IN QUANTITATIVE
NONDESTRUCTIVE EVALUATION, 1983,
BOULDER. PROC. P.1129-35. PLENUM,
1984.
GUBERNATIS, JAMES E. (T-11)
DOMANY, EYTAN
- 49-28
EFFECTS OF MICROSTRUCTURE ON THE SPEED
AND ATTENUATION OF ELASTIC WAVES IN
POROUS MATERIALS.
WAVE MOTION,
V.6, P.579-89. 1984.
GUBERNATIS, JAMES E. (T-11)
DOMANY, EYTAN
- 49-29
EFFECTS OF RADIAL COUNTERFLOW ON
ROTATING HELIUM II.
JUBILEE CONF. ON HELIUM - 4, 75TH,
1983, ST. ANDREWS. PROC., P.62-3.
WORLD SCIENTIFIC, 1983.
(536.56/J91CO/1983)
CAMPBELL, LAURENCE J. (T-11)
- 49-30
EFFECTS OF THE INTERNALLY PRODUCED
NONTHERMAL ELECTRONS ON THE TEMPERATURE
DIAGNOSTICS OF A HOLLOW GAS SHELL
Z - PINCH.
APPL. PHYS. LETT.,
V.44, P.667-9. 1984.
HAMMEL, BRUCE A. (P-1)
JONES, LARRY A. (P-6)
- 49-31
EFFICIENT STIMULATED RAMAN SCATTERING
DUE TO ABSENCE OF SECOND STOKES GROWTH.
OPT. LETT.,
V.9, P.353-5. 1984.
CARLSTEN, JOHN L. (CHM-6)
TELLE, JOHN M. (CHM-6)
WENZEL, ROBERT G. (CHM-6)
- 49-32
ELASTIC WAVE SCATTERING BY A
SURFACE - BREAKING OR SUBSURFACE
PLANAR CRACK — II. THREE-DIMENSIONAL
GEOMETRY.
J. APPL. PHYS.,
V.56, P.713-24. 1984.
VISSCHER, WILLIAM MAURITS (T-11)
- 49-33
ELECTRICAL CONDUCTIVITY OF AN
ARBITRARILY DENSE PLASMA.
LOS ALAMOS,
1984. 79P. (LA-09872-MS)
RINKER, GEORGE A., JR. (T-4)
- 49-34
ELECTRODYNAMIC INTERPRETATION OF VIRTUAL
CATHODE OSCILLATIONS.
LOS ALAMOS,
1984. 12P. (LA-09908)
KADISH, ABRAHAM (X-8)
- 49-35
ELECTRON - ELECTRON INTERACTION EFFECTS
ON PEIERLS DIMERIZATION IN A HALF
FILLED BAND.
PHYS. REV.,
V.29B, P.1824-38. 1984.
DIXIT, S. N.
MAZUMDAR, SUMIT (CNLS)

49-36
ELECTRONIC EXCITATION OF ATOMS AND
MOLECULES BY ELECTRON IMPACT IN A
LINEAR ALGEBRAIC, SEPARABLE POTENTIAL
APPROACH.

J. PHYS. B,
V.17, P.L235-9. 1984.
COLLINS, LEE A. (T-4)
SCHNEIDER, BARRY I. (T-12)

49-37
ENERGETIC PLASMA BEAM PROPAGATION IN
WEAK AND STRONG MAGNETIC FIELDS.

TIC,
1983. 5P. MN (LA-UR-83-2580)
SHANAHAN, WILLIAM R. (X-8)

49-38
ENERGY DEPOSITION FROM PARTICLE BEAMS.

LOS ALAMOS,
1984. 27P. (LA-09683-MS)
OSBORNE, W. Z.

49-39
EQUATION OF STATE FOR THE DETONATION
PRODUCTS OF SEVERAL SIMPLE EXPLOSIVES.

TIC,
1983. 14P. MN (LA-UR-83-1540)
SHAW, MILTON S. (T-14)
HOLIAN, BRAD LEE (T-4)
JOHNSON, JAMES D. (T-4)

49-40
EQUATION OF STATE FOR TITANIUM
DIHYDRIDE.

LOS ALAMOS,
1984. 15P. (LA-09895-MS)
BENNETT, BARD I., JR. (T-4)

49-41
EQUATION OF STATE OF
POLYTETRAFLUOROETHYLENE TO
80 GPa.

J. CHEM. PHYS.,
V.80, P.5203-17. 1984.
MORRIS, CHARLES E. (M-6)
FRITZ, JOSEPH N. (M-6)
MC QUEEN, ROBERT G. (M-6)

49-42
EQUATION OF STATE OF FLUID AMMONIA FROM
P-V-T AND ULTRASOUND MEASUREMENTS
TO 12 KBAR.

TIC,
1983. 9P. MN (LA-UR-83-2190)
MILLS, ROBERT L. (P-10)
LIEBENBERG, DONALD H. (P-10)
PRUZAN, PHILIPPE

49-43
EQUATION OF STATE OF SODIUM.

J. CHEM. PHYS.,
V.80, P.2864-70. 1984.
FRITZ, JOSEPH N. (M-6)
OLINGER, BARTON W. (M-6)

49-44
EVOLUTION OF LONG PULSES IN A TAPERED
WIGGLER FREE ELECTRON LASER.

LOS ALAMOS CONFERENCE ON OPTICS,
1983, LOS ALAMOS AND SANTA FE.
PROC., P.131-8. SPIE, 1983.
(535/L8790P/1983)
ALSO PUBLISHED IN:
TIC,
1983. 10P. MN (LA-UR-83-2411)
GOLDSTEIN, JOHN C. (X-1)

49-45
EXCITATION OF MOLECULES BY ELECTRON
IMPACT.

ELECTRON-MOLECULE INTERACTIONS AND
THEIR APPLICATIONS, L.G.
CHRISTOPHOROU, ED., P.155-249.
ACADEMIC PRESS, 1984.
(539.721/E38M0/V.1)
TRAJMAR, S.
CARTWRIGHT, DAVID C. (DPR/FRA)

49-46
EXPERIMENT TO DETERMINE PROPERTIES
OF PACKED PARTICLE BEDS AND
REGENERATORS AT CRYOGENIC TEMPERATURES.

TIC,
1983. 9P. MN (LA-UR-83-2351)
ALSO PUBLISHED IN:
ADV. CRYOG. ENG.,
V.29, P.605-12. 1984.
BARCLAY, JOHN A. (P-10)
OVERTON, WILLIAM C., JR. (P-10)
STEWART, WALTER F. (P-10)
SARANGI, SUNIL (P-10)

49-47
EXTRACTION OF H MINUS BEAMS FROM A
MAGNETICALLY FILTERED MULTICUSP
SOURCE.

LOS ALAMOS,
1984. 7P. (LA-09931)
YORK, ROBBIE LYNN (MP-11)
STEVENS, RALPH R., JR. (MP-DO)
LEUNG, K. N.
EHLERS, K. W.

49-48
EXTRACTION OF HYDROGEN MINUS BEAMS FROM
A MAGNETICALLY FILTERED MULTICUSP
SOURCE.

REV. SCI. INSTRUM.,
V.55, P.681-5. 1984.
YORK, ROBBIE LYNN (MP-11)
STEVENS, RALPH R., JR. (MP-DO)
LEUNG, K. N.
EHLERS, K. W.

49-49
FILAMENTATION INSTABILITY OF ION
ACOUSTIC WAVES DRIVEN BY A SCATTERED
RELATIVISTIC BEAM.

TIC,
1983. 5P. MN (LA-UR-83-2671)
LEE, HUAN (X-8)
JONES, MICHAEL E. (X-8)

49-50
FIRST OPERATION OF THE LOS ALAMOS
FREE - ELECTRON LASER OSCILLATOR.
INTERNATIONAL CONFERENCE ON LASERS,
1983, SAN FRANCISCO. PROC., P.313-20.
STS PRESS, 1983.

ALSO PUBLISHED IN:
TIC,
1983. 8P. MN (LA-UR-84-0202)
WARREN, ROGER W. (AT-7)
NEWNAM, BRIAN E. (CHM-6)
STEIN, WILLIAM E. (AT-7)
WINSTON, JOHN G. (E-7)
SHEFFIELD, RICHARD L. (AT-7)
LYNCH, MICHAEL T. (WX-7)
GOLDSTEIN, JOHN C. (X-1)
WHITEHEAD, MICHAEL C. (CHM-6)
NORRIS, O. ROY (AT-7)
LUEDEMANN, GARY (AT-5)
GIBSON, TED O. (AT-7)
HUMPHRY, CHRIS M. (AT-7)

49-51
FORCE BALANCE LIMITING CURRENT FOR
CHARGED PARTICLE BEAMS.

LOS ALAMOS,
1984. 6P. (LA-10150)
KADISH, ABRAHAM (X-8)

49-52
FORMATION OF VIRTUAL CATHODES AND
MICROWAVE GENERATION IN RELATIVISTIC
ELECTRON BEAMS.

PHYS. FLUIDS,
V.27, P.1570-2. 1984.
KWAN, THOMAS J. T. (X-8)
THODE, LESTER E. (X-8)

49-53
FOURIER-TRANSFORM RING LASER.
J. OPT. SOC. AM.,
V.1A, P.537-40. 1984.
SKLAR, EDWARD (CHM-6)

49-54
FREE - ELECTRON LASERS AND RELATED
TOPICS.

LINEAR ACCELERATOR CONFERENCE,
1984, SEEHEIM, PROC., P.256-9.
1984. (GSI-84-11)
WATSON, J. M. (AT-4)

49-55
FRICTIONAL HOT-SPOTS AND PROPELLANT
SENSITIVITY.

MATERIALS RESEARCH SOCIETY SYMPOSIA,
1983, BOSTON. PROC., P.373-80.
ELSEVIER, 1984.
ALSO PUBLISHED IN:
TIC,
1983. 10P. MN (LA-UR-83-3278)
DIENES, JOHN K. (T-3)

- 49-56
GASDYNAMIC FOCUSING FOR SAMPLE CONCENTRATION IN ULTRASENSITIVE ANALYSIS.
APPL. OPT.,
V.23, P.2146-51. 1984.
KELLER, RICHARD A. (CHM-2)
NOGAR, NICHOLAS S. (CHM-2)
- 49-57
GENERALIZATION OF THE CHILD-LANGMUIR RELATION FOR ONE-DIMENSIONAL TIME-DEPENDENT DIODES.
LOS ALAMOS,
1984. 9P. (LA-10207-MS)
KADISH, ABRAHAM (X-8)
PETER, WILLIAM K. (X-8)
JONES, MICHAEL E. (X-8)
- 49-58
GENERALIZED POISSON BRACKETS AND NONLINEAR LIAPUNOV STABILITY-APPLICATION TO REDUCED MHD.
TIC,
1984. 7P. MN (LA-UR-84-0942)
HAZELTINE, R. D.
HOLM, DARRYL D. (CNLS)
MARSDEN, JERROLD E. (CNLS)
MORRISON, P. J.
- 49-59
HIGH - ENERGY OPTICALLY PUMPED IODINE LASER - I - KINETICS IN AN OPTICALLY THICK MEDIUM.
J. APPL. PHYS.,
V.55, P.2659-70. 1984.
COHEN, JAMES S. (T-12)
JUDD, O'DEAN P. (NSP/DST)
- 49-60
HIGH - POWER COHERENT MICROWAVE GENERATION FROM OSCILLATING VIRTUAL CATHODES.
PHYS. FLUIDS,
V.27, P.228-32. 1984.
KWAN, THOMAS J. T. (X-8)
- 49-61
HIGH - TEMPERATURE SERIES EXPANSION OF $\Delta 4 CH/\Delta H 4$ FOR A GENERAL CONTINUOUS - SPIN ISING MODEL.
LOS ALAMOS,
1984. 58P. (LA-10275-MS)
JOHNSON, JAMES D. (T-4)
BAKER, GEORGE A., JR. (T-11)
- 49-62
IMAGERY OF PHYSICS IN PSYCHOLOGY- A PHYSICIST'S REACTIONS.
TIC,
1983. 28P. MN (LA-UR-84-0073)
SANDERS, GARY H (MP-13)
- 49-63
INDUCTIVELY STABILIZED EXCIMER LASERS.
TIC,
1984. 7P. MN (LA-UR-84-1190)
SZE, ROBERT C. (CHM-5)
- 49-64
INORGANIC FLUORESCENT SCREEN PROPERTIES IMPORTANT FOR MEV RADIATION IMAGERY.
LOS ALAMOS,
1984. 17P. (LA-10290-MS)
BERZINS, GEORGE J. (ESS-9)
LUMPKIN, ALEX H. (P-DO)
SMITH, HARRY L.
- 49-65
INSTABILITY OF THE BOUNDARY LAYER BETWEEN A STREAMING PLASMA AND A VACUUM MAGNETIC FIELD.
PHYS. FLUIDS,
V.26, P.2276-80. 1984.
PETER, WILLIAM
RON, AMIRAM
ROSTOKER, NORMAN
- 49-66
INTELLIGENT OPTICAL DESIGN PROGRAM. APPLICATIONS OF ARTIFICIAL INTELLIGENCE, 1984, ARLINGTON. PROC., P.104-12. SPIE, 1984. (001.535/A652AR/1984)
ALSO PUBLISHED IN:
TIC,
1984. 15P. MN (LA-UR-84-0910)
BOHACHEVSKY, IHOR ORESTES (WAC)
VISWANATHAN, VRIDDHACHALAM K. (P-5)
WOODFIN, GREG L. (P-5)
- 49-67
INTERPLAY BETWEEN SUPERCONDUCTIVITY AND ITINERANT FERROMAGNETISM IN YTTRIUM 9 (COBALT) 7 AT HIGH PRESSURE. MATERIALS RESEARCH SOCIETY SYMPOSIA, 1984, ALBANY. V.22, P.57-64. 1984.
ALSO PUBLISHED IN:
TIC,
1983. 11P. MN (LA-UR-83-2830)
HUANG, CHAO YUAN (P-10)
WOLF, S. A.
OLSEN, CLAYTON E. (MST-13)
FULLER, WENDY WEBB
HUANG, JUI HAN
TING, C. S.
- 49-68
LANDSLIDE MODEL FOR THE 1975 HAWAII TSUNAMI.
SCI. TSUNAMI HAZARDS,
V.2, P.71-8. 1984.
MADER, CHARLES L. (T-14)
- 49-69
LEON RESPONDS (AUG 13, 1984 ISSUE OF PHYSICAL REVIEW LETTERS)
PHYS. REV. LETT.,
V.53, P.739. 1984.
LEON, MELVIN (MP-3)
- 49-70
LIMITATIONS ON UNIVERSALITY IN THE CONTINUOUS - SPIN ISING MODEL.
J. PHYS. A,
V.17, P.L275-8. 1984.
BAKER, GEORGE A., JR. (T-11)
JOHNSON, JAMES D. (T-4)
- 49-71
LOCALIZATION IN F - SHELL METALS.
PHYS. REV.,
V.29B, P.2917-25. 1984.
HARRISON, WALTER A.
- 49-72
LOS ALAMOS FREE - ELECTRON LASER OSCILLATOR EXPERIMENT - PLANS AND PRESENT STATUS.
FREE-ELECTRON GENERATORS OF COHERENT RADIATION, 1983, ORCAS ISLAND, WASHINGTON. PROC., P. 130-6. SPIE, 1984. (621.366/F853EL/1983)
ALSO PUBLISHED IN:
TIC,
1983. 8P. MN (LA-UR-83-2443)
WARREN, ROGER W. (AT-7)
FRASER, JOHN S. (AT-7)
STEIN, WILLIAM E. (AT-7)
WINSTON, JOHN G (E-7)
SWANN, THOMAS A. (P-5)
LUMPKIN, ALEX H. (P-DO)
SHEFFIELD, RICHARD L. (AT-7)
SOLLID, JON E. (P-5)
NEWMAM, BRIAN E. (CHM-6)
BRAU, CHARLES A. (AT-DO)
WATSON, J. M. (AT-4)
- 49-73
LOW HYSTERESIS MATERIALS FOR MAGNETIC REFRIGERATION - GADOLINIUM 1-X ERBIUM X ALUMINUM 2.
J. APPL. PHYS.,
V.55, P.2609-10. 1984.
ALSO PUBLISHED IN:
TIC,
1983. 10. MN (LA-UR-83-2890)
ZIMM, C. B. (P-10)
BARCLAY, JOHN A. (P-10)
JOHANSON, WILLIAM R. (MST-5)
- 49-74
LOW-TEMPERATURE PRESSURE VARIATIONS IN A SELF - CLAMPING PRESSURE CELL.
REV. SCI. INSTRUM.,
V.55, P.231-4. 1984.
THOMPSON, JOE D. (P-10)

49-75
LYAPUNOV STABILITY CONDITIONS FOR A
RELATIVISTIC MULTIFLUID PLASMA.
TIC,
1984. 9P. MN (LA-UR-84-1127)
HOLM, DARRYL D. (CNLS)
KUPERSHMIDT, BORIS ABRAM (CNLS)

49-76
MAXIMUM SUPERCOOLING IN LIQUID 3 HELIUM
MINUS 4 HELIUM MIXTURES NEAR THE
TRICRITICAL POINT.
TIC,
1984. 3P. MN (LA-UR-84-0904)
SINHA, DIPEN N. (P-10)
HOFFER, JAMES K. (P-10)

49-77
MEASURED HUGONOT STATES OF A TWO-
ELEMENT FLUID, OXYGEN PLUS NITROGEN,
NEAR TWO MEGAGRAMS PER CUBIC METER.
SHOCK WAVES IN CONDENSED MATTER,
1983, SANTA FE. PROC., P.49-52.
ELSEVIER, 1984.
SCHOTT, GARRY L. (M-1)

49-78
MEASURED HUGONOT STATES OF A TWO-
ELEMENT FLUID, OXYGEN 2 PLUS NITROGEN 2
NEAR 2 MG/M CUBED.
TIC,
1983. 5P. MN (LA-UR-83-2172)
SCHOTT, GARRY L. (M-1)

49-79
MEASUREMENT OF THE PP GOING TO PI D
SPIN CORRELATION PARAMETERS A SL
AND A LL AT ENERGIES BETWEEN 500
AND 800 MEV.
LOS ALAMOS,
1984. 102P. (LA-10289-T)
BARLOW, D.

49-80
MEASUREMENTS OF THE THERMAL
CONDUCTIVITY AND VISCOSITY OF
LIQUID PROPYLENE.
J. CHEM. ENG. DATA,
V.29, P.56-9. 1984.
SWIFT, GREG W. (P-10)
MIGLIORI, ALBERT (P-10)

49-81
MEASUREMENT OF DELTA SIGMA SUB - L AND
C SUB - (L,L;0,0) IN PROTON-PROTON
SCATTERING BETWEEN 300 AND 800 MEV.
PHYS. REV.,
V.29D, P.2435-64. 1984.
AUER, I. P.
DITZLER, W. R.
HILL, DANIEL
IMAI, K.
SPINKA, H.
STANEK, R.
TOSHIOKA, K.
UNDERWOOD, D.
WAGNER, R.
YOKOSAWA, A.
HOFFMAN, EARL WAYNE (MP-1)
JARMER, JOHN J. (MP-7)
BURLESON, GEORGE R.
COTTINGAME, W. B.
GREENE, S. J.
STUART, S.

49-82
MELTING OF METALS ABOVE 100 GPA.
MATERIALS RESEARCH SOCIETY SYMPOSIA,
1983, ALBANY. V.22, P.137-41. 1984.
ALSO PUBLISHED IN:
TIC,
1983. 6P. MN (LA-UR-83-2248)
SHANER, J. W. (M-6)
BROWN, J. MICHAEL
MC QUEEN, ROBERT G. (M-6)

49-83
METHOD OF FORMING METALLIC COATINGS ON
POLYMERIC SUBSTRATES.
PATENTED
AUG. 7, 1984, FILED 1983.
(U.S.PATENT-4,464,416)
LIEPINS, RAIMOND (MST-6)

49-84
MICROWAVE GENERATORS - OSCILLATING
VIRTUAL CATHODES AND REFLEXING
ELECTRONS.
TIC,
1983. 4P. MN (LA-UR-83-2602)
KWAN, THOMAS J. T. (X-8)
THODE, LESTER E. (X-8)

49-85
MOLECULAR DYNAMICS CALCULATIONS OF THE
HARD - SPHERE EQUATION OF STATE.
J. STAT. PHYS.,
V.35, P.321-40. 1984.
ERPENBECK, JEROME J. (T-11)
WOOD, WILLIAM W. (T-11)

49-86
MONTE CARLO SIMULATION OF ELECTRON/
PHOTON/CERENKOV CASCADES IN GENERALIZED
GEOMETRY.
TRANS. AM. NUCL. SOC.,
V.46, P.434-5. 1984.
MACK, JOSEPH M., JR. (X-6)
JORDAN, THOMAS M.

49-87
MU PLUS SR STUDY OF SOME MAGNETIC
SUPERCONDUCTORS.
HYPERFINE INTERACT.,
V.17-19, P.509-14. 1984.
HUANG, CHAO YUAN (P-10)
ANSALDO, E. J.
BREWER, JESS HENRY
HARSHMAN, D. R.
CROWE, KENNETH M.
ROSENBLUM, STEPHEN S.
CLAWSON, CARL W.
FISK, ZACHARY (MST-5)
LAMBERT, STEVEN E.
TORIKACHVILI, MILTON S.
MAPLE, MERRILL B.

49-88
MULTIPLE SCATTERING EFFECTS IN
SPATIAL FREQUENCY FILTERING.
APPL. OPT.,
V.23, P.4124-30. 1984.
ZARDECKI, ANDREW (T-DO)
GERSTL, S. A. W. (T-DOT)
EMBURY, JANON F.

49-89
MULTIPRESSURE REGULARIZATION FOR
MULTIPHASE FLOW.
PHYS. LETT.,
V.106A, P.165-8. 1984.
HOLM, DARRYL D. (CNLS)
KUPERSHMIDT, BORIS ABRAM (CNLS)

49-90
MULTISTEP PUMPING SCHEMES FOR SHORT -
WAVE LASERS.
LASER INTERACTION AND RELATED
PLASMA PHENOMENA, H. HORA AND G. H.
MILEY, EDS., P.107-24. PLENUM, 1984.
(535/L343IN/V.6)
BALDWIN, GEORGE C. (P-3)

49-91
NOISE - INDUCED INTERMITTENCY IN A
CONVECTING DILUTE SOLUTION OF HELIUM 3
IN SUPERFLUID HELIUM 4.
PHYS. REV. LETT.,
V.53, P.2090-2. 1984
HAUCKE, HANS (P-10)
ECKE, R. (P-10)
MAENO, YOSHITERU
WHEATLEY, JOHN C. (P-10)

49-92
NONLINEAR EVOLUTION OF THE LOWER HYBRID
DRIFT INSTABILITY.
PHYS. FLUIDS,
V.27, P.2682-92. 1984.
BRACKBILL, JEREMIAH U. (X-1)
FORSLUND, DAVID W. (X-1)
QUEST, KEVIN B. (X-1)
WINSKE, DAN (X-1)

49-93
NONLINEAR OPTICS - WHERE DO WE GO FROM
HERE?

TIC,
1984. 6P. MN (LA-UR-84-0339)
FISHER, ROBERT A. (CHM-6)

49-94
ON OBTAINING THE ZERO TEMPERATURE
EQUATION OF STATE FROM SHOCK DATA.

LOS ALAMOS,
1984. 15P. (LA-09890-MS)
BENNETT, BARD I., JR. (T-4)

49-95
ON THE INTERPLAY BETWEEN DIELECTRIC
SCREENING AND CORE HOLE RELAXATION IN
SOFT X-RAY ABSORPTION.

J. PHYS. B,
V.17, P.L253-7. 1984.
ZANGWILL, ANDREW
LIBERMAN, DAVID A. (T-4)

49-96
ONSET OF CHAOS IN DUFFING OSCILLATOR
SYSTEMS.

COHERENCE AND QUANTUM OPTICS, 5TH,
1983, ROCHESTER. PROC., P.729-35.
PLENUM, 1984.
ACKERHALT, JAY R. (T-12)
GALBRAITH, HAROLD W. (T-12)
MILONNI, PETER W. (T-12)

49-97
OPTICAL ACTIVITY AND PARITY VIOLATION.
PHYSICS OF OPTICAL RING GYROS, 1984.
SNOWBIRD. PROC., P.128-36. SPIE,
1984. (629.135/P5780P/1984)
ELLIOTT, C. JAMES (X-1)
SMALL, JAMES G.

49-98
OPTICAL EFFECTS OF THE GRAVITATIONALLY
INDUCED CONCENTRATION GRADIENT IN
TRICRITICAL 3 HELIUM - 4 HELIUM.

TIC,
1984. 3P. MN (LA-UR-84-0944)
SHIAH, SHOOU-SHINN (P-10)
HOFFER, JAMES K. (P-10)

49-99
OPTICAL ENGINEERING AT LOS ALAMOS - A
HISTORY.

LOS ALAMOS CONFERENCE ON OPTICS,
PROC., P.2-16. SPIE, 1983.
(535/L8790P/1983)
ALSO PUBLISHED IN:
TIC,
1984. 16P. MN (LA-UR-83-0953)
BRIXNER, BERLYN (M-5)

49-100
OPTICAL PROPERTIES OF EXPLOSIVE - DRIVEN
SHOCK WAVES IN NOBLE GASES.

LOS ALAMOS CONFERENCE ON OPTICS,
1983, LOS ALAMOS AND SANTA FE.
PROC., P.312-21. SPIE, 1983.
(535/L8790P/1983)
ALSO PUBLISHED IN:
TIC,
1983. 11P. MN (LA-UR-83-1928)
JONES, CLAUDE R. (CHM-6)
DAVIS, WILLIAM C. (M-3)

49-101
OVERVIEW OF RAYLEIGH - TAYLOR
INSTABILITY.

PHYSICA,
V.12D, P.3-18. 1984.
ALSO PUBLISHED IN:
TIC,
1983. 47P. MN (LA-UR-83-2130)
SHARP, DAVID H. (T-8)

49-102
OVERVIEW OF RAYLEIGH-TAYLOR INSTABILITY.

INTL. CONF. OF THE CENTER FOR
NONLINEAR STUDIES, 3RD, 1983,
LOS ALAMOS. PROC., P.3-18.
NORTH-HOLLAND PHYSICS PUBL., 1984.
SHARP, DAVID H. (T-8)

49-103
P-STATE SUPERCONDUCTIVITY? -
A ROUTINE TEST LEADS TO AN
EXTRAORDINARY DISCOVERY.

LOS ALAMOS SCI.,
SPRING, NO.10, P.59-67. 1984.
STEWART, GREGORY R. (MST-5)
FSK, ZACHARY (MST-5)
WILLIS, JEFFREY D. (MST-5)
SMITH, JAMES L. (MST-5)

49-104
PASSIVE QUENCH ARREST BY A CHIMNEY
INDUCED DELUGE AT EVERY QUENCH FRONT.

ADV. CRYOG. ENG.,
V.29. P.225-35. 1984.
SYDORIAK, STEPHEN G. (P-10)

49-105
PATTERN FORMATION BY SHOCK PROCESSES.

INTL. CONF. OF THE CENTER FOR
NONLINEAR STUDIES, 3RD, 1983,
LOS ALAMOS. PROC., P.154-62.
NORTH-HOLLAND PHYSICS PUBL., 1984.
(530.15/161CE/3RD/1983)
ALSO PUBLISHED IN:
TIC,
1983. 22P. MN (LA-UR-83-2113)
SHANER, J. W. (M-6)

49-106
PERFORMANCE OF LAYERED SYNTHETIC
MICROSTRUCTURES IN THE SOFT X-RAY
ENERGY RANGE.

STANFORD SYNCHROTRON RADIATION LAB.
ACTIVITY REPORT FOR APRIL 1, 1982-
MARCH 31, 1983. K. CANTWELL, ED.,
P.VII-34. SSRL, 1983. (SSRL-83/01)
BARTLETT, ROGER J. (P-14)
DAY, ROBERT H. (P-14)
KANIA, DON R. (P-14)
TRELA, WALTER J. (P-DO)
KALLNE, ELISABETH (P-1)
BARBEE, TROY W.

49-107
PERFORMANCE OF MULTILAYER DISPERSION
ELEMENTS WITH 80 TO 500 EV.

SCIENCE WITH SOFT X-RAYS, 1983,
UPTON. PROC., P.23-6. SPIE, 1983.
ALSO PUBLISHED IN:
TIC,
1983. 5P. MN (LA-UR-83-2837)
BARTLETT, ROGER J. (P-14)
KANIA, DON R. (P-14)
TRELA, WALTER J. (DIR-O)
KALLNE, ELISABETH (P-1)
LEE, PING (P-4)
SPILLER, EBERHARD

49-108
PERFORMANCE OF TRANSITION METAL - CARBON
MULTILAYER MIRRORS FROM 80 TO 350 EV.

TIC,
1984. 6P. MN (LA-UR-84-0720)
KANIA, DON R. (P-14)
BARTLETT, ROGER J. (P-14)
TRELA, WALTER J. (P-DO)
SPILLER, EBERHARD
GOLUB, L.

49-109
PHYSICS DIVISION ANNUAL PROGRESS
REPORT—JANUARY 1-DECEMBER 31, 1983.

LOS ALAMOS,
1984. 96P. (LA-10097-PR)
TRELA, WALTER J. (P-14)

49-110
PION INELASTIC SCATTERING TO THE FIRST
THREE EXCITED STATES OF LITHIUM - 6.

LOS ALAMOS,
1984. 176P. (LA-10257-T)
KIZIAH, R. R.

49-111
PLASMA ENERGY DEPOSITION FROM THE
NUCLEAR ELASTIC SCATTERING OF TRITONS
ON TRITONS.

LOS ALAMOS,
1984. 6P. (LA-10042-MS)
DEVANEY, JOSEPH J. (X-6)

49-112
PLASTIC INSTABILITY AND PARTICULATION
IN STRETCHING METAL JETS.

J. APPL. PHYS.,
V.56, P.1997-2006. 1984.
WALSH, JOHN M. (M-4)

49-113
PRECISE ULTRAHIGH - PRESSURE
EXPERIMENTS.

TIC,
1983. 5P. MN (LA-UR-83-2081)
RAGAN, CHARLES E. (P-3)
DIVEN, BENJAMIN C. (P-DO)
TEASDALE, WILLIAM A. (P-3)
ROBINSON, EDWARD E. (P-3)
RICH, MARVIN (X-5)

49-114
PREDICTION OF HIGH PRESSURE PHASE
TRANSITIONS IN SOLID N₂ AND THE PRESSURE
DEPENDENCE OF THE INTRAMOLECULAR
VIBRATIONAL FREQUENCIES.

TIC,
1983. 5P. MN (LA-UR-83-2249)
ETTERS, RICHARD D. (M-6)
CHANDRASEKHARAN, V.
KOBASHI, K.

49-115
PREDICTION OF PRESSURE INDUCED
STRUCTURAL PHASE TRANSITIONS AND
INTERNAL MODE FREQUENCY CHANGES IN
SOLID NITROGEN 2.

TIC,
1983. 5P. MN (LA-UR-2146)
ETTERS, RICHARD D. (M-6)
KOBASHI, K.
CHANDRASEKHARAN, V.

49-116
PROCEEDINGS OF THE 17TH LAMPF USERS
GROUP MEETING, LOS ALAMOS, NM,
NOVEMBER 7 - 8, 1983.

LOS ALAMOS,
1984. 176P. (LA-10080-C)
BRADBURY, JAMES N. (MP-DO)
RUMINER, KIT (MP-DO)
TALLEY, BEVERLY (MP-DO)

49-117
PROCEEDINGS OF THE 1984 WORKSHOP ON
HIGH-ENERGY EXCITATIONS IN CONDENSED
MATTER—HELD AT LOS ALAMOS, NEW MEXICO—
FEBRUARY 13-15, 1984.

LOS ALAMOS.
1984. 343P. (LA-10227-C, VOL. 1)
SILVER, RICHARD N. (P-8)

49-118
PROCEEDINGS OF THE 1984 WORKSHOP ON
HIGH-ENERGY EXCITATIONS IN CONDENSED
MATTER—HELD AT LOS ALAMOS, NEW MEXICO—
FEBRUARY 13-15, 1984.

LOS ALAMOS,
1984. 651P. (LA-10227-C, VOL. 2)
SILVER, RICHARD N. (P-8)

49-119
PROGRESS IN ULTRAVIOLET DAMAGE TESTING
AT LOS ALAMOS.

LASER INDUCED DAMAGE IN OPTICAL
MATERIALS, 14TH, 1982, BOULDER.
PROC., P.266-81. NBS, 1984.
(620.112/S9890M/14TH/1982)
ALSO PUBLISHED IN:

TIC,
1982. 9P. MN (LA-UR-83-0601)
FOLTYN, STEPHEN R. (CHM-5)
JOLIN, L. J. (CHM-5)
NEWMAM, BRIAN E. (CHM-6)

49-120
PULSED-POWER DIODE GENERATION OF
HIGH - POWER MICROWAVES.

TIC,
1983. 5P. MN (LA-UR-83-2622)
PERATT, ANTHONY L. (X-8)
MOSTROM, MICHAEL A. (X-8)
KWAN, THOMAS J. T. (X-8)
THODE, LESTER E. (X-8)

49-121
QUANTUM MANIFESTATIONS OF CLASSICAL
RESONANCE ZONES.

J. CHEM. PHYS.,
V.80, P.794-9. 1984.
DE LEON, NELSON (T-12)
DAVIS, MICHAEL J.
HELLER, ERIC J. (T-12)

49-122
RARE MUON DECAYS AND LEPTON - FAMILY
NUMBER CONSERVATION.

TIC,
1984. 30P. MN (LA-UR-84-1327)
HOFFMAN, CYRUS M. (MP-4)

49-123
RAREFACTION VELOCITIES IN SHOCKED
TANTALUM AND THE HIGH PRESSURE MELTING
POINT.

TIC,
1983. 5P. MN (LA-UR-83-2144)
BROWN, J. MICHAEL
SHANER, J. W. (M-6)

49-124
REFLECTED SHOCKS IN SILICON DIOXIDE.

TIC,
1983. 5P. MN (LA-UR-83-2242)
FRITZ, JOSEPH N. (M-6)
MC QUEEN, ROBERT G. (M-6)

49-125
RELAXATIONS IN SPIN GLASSES -
SIMILARITIES AND DIFFERENCES FROM
ORDINARY GLASSES.

TIC,
1983. 13P. MN (LA-UR-83-2929)
NGAI, K. L.
RAJAGOPAL, A. K.
HUANG, CHAO YUAN (P-10)

49-126
RESPONSE TO AMBIENT PRESSURE OF FUEL
DROP COMBUSTION WITH SURFACE
EQUILIBRIUM.

INT. J. ENG. SCI.,
V.22, P.403-10. 1984.
JANSSEN, ROBERT D. (CNLS)
LUDFORD, G. S. S.

49-127
REVISION OF THE STATISTICAL MECHANICS OF
PHONONS TO INCLUDE PHONON LINE WIDTHS.

TIC,
1983. 4P. MN (LA-UR-83-2379)
OVERTON, WILLIAM C., JR. (P-10)

49-128
ROLE OF PRESSURE IN UNDERSTANDING THE
ANOMALOUS SUPERCONDUCTIVITY IN
EUROPIUM (MOLYBDENUM)₆(SULFUR)₈ AND
(DITETRAMETHYL TETRASELENAFULVALENIUM)
FLUOROSULFITE.

TIC,
1983. 11P. MN (LA-UR-83-2451)
WOLF, S. A.
HUANG, CHAO YUAN (P-10)
LACOE, RONALD C.
CHAIKIN, PAUL M.
FULLER, WENDY WEBB
LUO, HUEY LIN
WUDL, FRANK

49-129
SCATTERING OF RAYLEIGH SURFACE WAVES
FROM PARTLY - CLOSED SURFACE - BREAKING
CRACKS.

REVIEW OF PROGRESS IN QUANTITATIVE
NONDESTRUCTIVE EVALUATION, 1983,
BOULDER. PROC., P.187-97. PLENUM,
1984.
VISSCHER, WILLIAM MAURITS (T-11)

49-130
SHAPE RESONANCES IN THE HYDROGEN STARK
EFFECT IN FIELDS UP TO 3 MV/CM.

PHYS. REV. LETT.,
V.53, P.775-8. 1984.
BERGEMAN, T.
HARVEY, C.
BUTTERFIELD, KENNETH B. (Q-2)
BRYANT, HOWARD C.
CLARK, DAVID A. (P-9)
GRAM, PETER A. M. (MP-4)
MAC ARTHUR, DUNCAN W.
DAVIS, M. (MP-7)
DONAHUE, JOEY B. (MP-7)
DAYTON, J.
SMITH, W. W.

49-131
SHEAR VISCOSITY OF THE HARD-SPHERE
FLUID VIA NONEQUILIBRIUM MOLECULAR
DYNAMICS.

PHYS. REV. LETT.,
V.52, P.1333-5. 1984.
ERPENBECK, JEROME J. (T-11)

- 49-132
SHOCK-WAVE EXPERIMENTS AT
THREEFOLD COMPRESSION.
PHYS. REV.,
V.29A, P.1391-1401. 1984.
RAGAN, CHARLES E. (P-3)
- 49-133
SIMPLE EOS FOR LINEAR
POLYTETRADEUTEROETHYLENE.
LOS ALAMOS,
1984. 14P. (LA-10241-MS)
DOWELL, FLONNIE (T-4)
- 49-134
SIMPLE EOS FOR THE SILICONE RUBBER
SYLGARD 184.
LOS ALAMOS,
1984. 15P. (LA-10164-MS)
DOWELL, FLONNIE (T-4)
- 49-135
SIMULATION STUDIES ON A NOVEL BETATRON
INJECTION SCHEME.
TIC,
1983. 5P. MN (LA-UR-83-2669)
PETER, WILLIAM K. (X-8)
FAEHL, R. J. (X-8)
MAKO, F.
- 49-136
SIMULATIONS OF THE EFFECTS OF MOBILE
IONS ON THE RELATIVISTIC BEAM - PLASMA
INSTABILITY FOR INTENSE BEAMS.
TIC,
1983. 5P. MN (LA-UR-83-2601)
JONES, MICHAEL E. (X-8)
LEMONS, DON S. (X-8)
LEE, HUAN (X-8)
- 49-137
SINGLE - PULSE COHERENT RAMAN
SPECTROSCOPY IN SHOCK - COMPRESSED
BENZENE.
MATERIALS RESEARCH SOCIETY SYMPOSIA,
1983, BOSTON. PROC., P.87-94.
ELSEVIER, 1984.
ALSO PUBLISHED IN:
TIC,
1983. 9P. MN (LA-UR-83-1854)
MOORE, DAVID S. (CHM-4)
SCHMIDT, STEPHEN C. (M-6)
SCHIFERL, DAVID (M-6)
SHANER, J. W. (M-6)
- 49-138
SOME OBSERVATIONS ON HEAVY FERMION
SUPERCONDUCTIVITY IN URANIUM
BERYLLIUM 13.
J. LOW TEMP. PHYS.,
V.56, P.379-81. 1984.
STEWART, GREGORY R. (MST-5)
GIORGI, ANGELO L. (MST-5)
- 49-139
SPACE TIME EVOLUTION OF THE NONLINEAR
TWO - STREAM INSTABILITY.
TIC,
1983. 5P. MN (LA-UR-83-2670)
LEMONS, DON S. (X-8)
JONES, MICHAEL E. (X-8)
LEE, HUAN (X-8)
- 49-140
SPECIFIC HEAT STUDIES OF LANTHANUM
AND YTTRIUM SESQUICARBIDES.
J. LOW TEMP. PHYS.,
V.54, P.149-53. 1984.
CORT, BARBARA (MST-3)
STEWART, GREGORY R. (MST-5)
GIORGI, ANGELO L. (MST-5)
- 49-141
SPEED AND ATTENUATION OF ELASTIC WAVES
IN POLYCRYSTALS.
REVIEW OF PROGRESS IN QUANTITATIVE
NONDESTRUCTIVE EVALUATION, 1983,
BOULDER. PROC., P.1149-55. PLENUM,
1984.
BRIND, R. J.
GUBERNATIS, JAMES E. (T-11)
- 49-142
SPIDER DIFFRACTION, A COMPARISON OF
CURVED AND STRAIGHT LEGS.
APPL. OPT.,
V.23, P.1907-13. 1984.
RICHTER, JOHN L. (NSP-WP)
- 49-143
SPOTSIZE EFFECTS IN LASER DAMAGE
TESTING.
LASER INDUCED DAMAGE IN OPTICAL
MATERIALS, 14TH, 1982, BOULDER.
PROC., P.368-79. NBS, 1984.
(620.112/S9890M/14TH/1982)
ALSO PUBLISHED IN:
TIC,
1982. 12P. MN (LA-UR-83-1020)
FOLTYN, STEPHEN R. (CHM-5)
- 49-144
STABILITY OF LANGMUIR WAVES IN
DEVELOPING ION - SOUND TURBULENCE.
PHYS. FLUIDS,
V.27, P.218-27. 1984.
DUBOIS, DONALD F. (T-11)
PESME, DENIS
- 49-145
STARK BROADENING OF HYDROGEN NEGATIVE
RESONANCES IN LARGE ELECTRIC FIELDS.
LOS ALAMOS,
1984. 158P. (LA-10149-T)
BUTTERFIELD, KENNETH B. (Q-2)
- 49-146
STRAIGHT MAN FOR NONLINEARITY
AN INTERVIEW WITH ALWYN SCOTT.
LOS ALAMOS SCI.,
SPRING, NO.10, P.70-80. 1984.
LATHROP, JUDITH M. (IS DO)
- 49-147
STRUCTURAL STUDIES AT ELEVATED PRESSURE
AND REDUCED TEMPERATURES USING
SYNCHROTRON RADIATION - APPLICATION TO
(CERIUM).8(LANTHANUM).1(THORIUM).1.
TIC,
1983. 6P. MN (LA-UR-83-2928)
SKELTON, E. F.
WEBB, A. W.
ELAM, WEST T.
WOLF, S. A.
QADRI, SYED B.
HUANG, CHAO YUAN (P-10)
CHAIKIN, PAUL M.
LACOE, RONALD C.
GSCHNEIDER, KARL A.
- 49-148
STUDY OF DYNAMICAL LIGHT SCATTERING IN
PHASE SEPARATING HELIUM 3 - HELIUM 4
MIXTURES USING LINEAR PHOTODIODE ARRAYS.
REV. SCI. INSTRUM.,
V.55, P.875-8. 1984.
SINHA, DIPEN N. (P-10)
HOFFER, JAMES K. (P-10)
- 49-149
SUPERCONDUCTIVITY AND SPIN
FLUCTUATIONS.
LOS ALAMOS SCI.,
SPRING, NO.10, P.60-1. 1984.
PINES, DAVID
- 49-150
SUPERSYMMETRY BREAKING WITHOUT
O'RAIFEARTAIGH POTENTIALS.
PHYS. LETT.,
V.134B, P.51-5. 1984.
OVRUT, BURT A.
RABY, STUART A. (T-8)
- 49-151
THERMAL CONDUCTIVITY OF AN ARBITRARILY
DENSE PLASMA.
LOS ALAMOS,
1984. 39P. (LA-10202-MS)
RINKER, GEORGE A., JR. (T-4)
- 49-152
THERMODYNAMIC CALCULATIONS FOR BCC
SODIUM AT HIGH PRESSURES.
PHYS. REV.,
V.30B, P.3929-32. 1984.
STRAUB, GALEN K. (T-4)
WALLACE, DUANE C. (X-4)

49-153
TRANSMISSION AND REFLECTION OF LASER
BEAMS PROPAGATING THROUGH AEROSOL
CLOUDS IN SPACE.

LOS ALAMOS,
1984. 38P. (LA-09998-MS)
ZARDECKI, ANDREW (T-DO)
GERSTL, S. A. W. (T-DOT)

49-154
TWO - PHASE FLUID FLOW THROUGH NOZZLES
AND ABRUPT ENLARGEMENTS.

TIC,
1983. 45P. MN (LA-UR-83-3695)
OLIA, H.
MAEDER, P. F.
DI PIPPO, R.
DICKINSON, D. A.

49-155
UNDERSTANDING EXPERIMENTALLY THE
TRANSITION TO CHAOS IN A CONVECTING
DILUTE SOLUTION OF 3 HELIUM IN
SUPERFLUID 4 HELIUM.

QUANTUM FLUIDS AND SOLIDS-1983,
1983, SANIBEL ISLAND. PROC.,
P.412-27. AIP, 1983.
(530.4/Q1FL/1983)
ALSO PUBLISHED IN:

TIC,
1983. 22P. MN (LA-UR-83-1252)
MAENO, YOSHITERU
HAUCKE, HANS
WHEATLEY, JOHN C. (P-10)

49-156
URANIUM 2 PLATINUM CARBIDE 2 AND
SYSTEMATICS OF HEAVY FERMIONS.

PHYS. REV. LETT.,
V.53, P.1829-31. 1984.
MEISNER, G. P. (MST-5)
GIORGI, ANGELO L. (MST-5)
LAWSON, A. C. (MST-5)
STEWART, GREGORY R. (MST-5)
WILLIS, JEFFREY O. (MST-5)
WIRE, MIKE S. (MST-5)
SMITH, JAMES L. (MST-5)

49-157
USE OF FIBER OPTICS AND LASER - INDUCED
FLUORESCENCE FOR REMOTE MEASUREMENTS OF
URANIUM HEXAFLUORIDE IN STRONG
ROTATION.

TIC,
1983. 32P. MN (LA-UR-83-1699)
ALLISON, S. W.
MAGNUSON, D. W.
DAVIES, T. J.
CATES, MICHAEL REID (Q-1)
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CALDWELL, STEPHEN E. (P-14)
FRANKS, L. A.
NELSON, M. A.

49-158
USING THE SURFACE TENSION TO ESTIMATE
THE CONDENSATE DENSITY OF SUPERFLUID
4 HELIUM.

QUANTUM FLUIDS AND SOLIDS-1983,
1983, SANIBEL ISLAND. PROC.,
P.403-11. AIP, 1983.
(530.4/Q1FL/1983)
ALSO PUBLISHED IN:
TIC,
1983. 17P. MN (LA-UR-83-1070)
CAMPBELL, LAURENCE J. (P-10)

49-159
X - RAY BIOMICROHOLOGRAPHY.
OPT. ENG.,
V.23, P.193-203. 1984.
SOLEM, JOHNDALE C. (T-DO)
CHAPLINE, GEORGE F.

49-160
XUV/VUV FREE - ELECTRON LASER
OSCILLATOR.
LASER TECHNIQUES IN THE EXTREME
ULTRAVIOLET, 1984, BOULDER. PROC.,
P.293-303. AIP, 1984.

(535.84/T674LA/2ND/1984)
ALSO PUBLISHED IN:
TIC,
1984. 12P. MN (LA-UR-84-1384)
GOLDSTEIN, JOHN C. (X-1)
NEWMAN, BRIAN E. (CHM-6)
COOPER, RICHARD K. (AT-6)
COMLY, JACK C., JR. (X-1)

49-161
YANG-MILLS MAGNETOHYDRODYNAMICS —
NONRELATIVISTIC THEORY.
PHYS. REV.,
V.30D, P.2557-60. 1984.
HOLM, DARRYL D. (CNLS)
KUPERSHMIT, BORIS ABRAM (CNLS)