

No.	Pub. Year	Citations	File Name	File Size (bytes)
7	1971-1972	734	RADBIB07.TXT	660,768

The search criteria was for radiation or radiological for publication year greater than 1970 and less than 1973.

The document database four character field names and a descriptor for each field are as follows:

ABS	Abstract
ACCD	Accession Date
ADNO	DTIC Number
AUTH	Author(s)
CCDE	Computer Code(s)
CLSS	Classification
CONN	Contract Number
CORP	Corporation
DATE	Report Date
DESC	Descriptor(s)
EFFT	Damage Mechanism
EMPF	Electro Magnetic Pulse File number(s)
HESO	High Explosive Shot(s)
INUM	Item Number
LA	Country or Language
PROJ	Project Number
REPN	Report Number
SHOT	Nuclear Test(s)
SUCE	Device Designation
SUJO	DASIAC Subject number(s)
SYMJ	Published in
SYST	System Affected
TEMP	Document Control number(s)
TITL	Report Title
TNFF	Tactical Nuclear Warfare
TREE	Transient Radiation Effects on Electronics number(s)
TSHO	Shot Type

Defense Threat Reduction Agency Declassification Review EO 12958	
1st REVIEW DATE: 16 JUL 2000	2. Classification Remains Unchanged
AUTHORITY: EACD (UACD)	3. Classification Changed to: <u>UNCLASS</u>
NAME: <u>John M. Lutz</u>	4. Contains No EXTRA Checked Info
2nd REVIEW DATE: 16 JUL 2000	5. Coordinate WFR
AUTHORITY: EACD (UACD)	6. Exempt From Declassification
NAME: <u>M. Lutz</u>	8. Exempt from 1 2 3 4 5 6 7 8 9

* WITH DELETED

Statement A
 Approved for public release;
 Distribution unlimited. 16 Feb 2000
 THIS VERSION ONLY,
M. Lutz

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Report Log for Bibliography

Report 'bibliography' scheduled as 'radbib'

Bibliography using full text searching with selection qualification.

STILAS text selection v6.2 started on Monday, June 13, 1994, 12:16 PM

Search will use the KUNI database

Search strings will be read from standard input

The catalog key will be written to standard output

19940613121612 BRS/Search-Engine v.5 started for seltext1

11379 records found for #1: RADIATION OR RADIOLOGICAL

1 searches considered

1 searches selected.

STILAS text selection finished on Monday, June 13, 1994, 12:20 PM

STILAS catalog selection v6.2 started on Monday, June 13, 1994, 12:16 PM

Catalog key will be read from standard input

The catalog key will be written to standard output

The author key will be written to standard output

The title key will be written to standard output

Catalog will be selected if year_of_pub is more than 1970 and less than 1973

11379 catalog record(s) considered

736 catalog record(s) selected.

STILAS catalog selection finished on Monday, June 13, 1994, 12:20 PM

STILAS call number selection v6.2 started on Monday, June 13, 1994, 12:16 PM

Catalog key will be read from standard input

The callnum primary key will be written to standard output

The shelving key will be written to standard output

String from standard input will be written to standard output

Call number will be selected if library is DOCUMENT

736 callnum record(s) considered

734 callnum record(s) selected.

STILAS call number selection finished on Monday, June 13, 1994, 12:20 PM

STILAS item selection v6.2 started on Monday, June 13, 1994, 12:16 PM

Item file will be read by callnum key from standard input

The item primary key will be written to standard output

String from standard input will be written to standard output

734 item record(s) considered

734 item record(s) selected.

STILAS item selection finished on Monday, June 13, 1994, 12:20 PM

Sort: sorting by CALL NUMBER

STILAS item printing v6.2 started on Monday, June 13, 1994, 12:16 PM

Catalog key will be read from standard input

The print will be a catalog level shelflist

The MARC tags will be written to standard output

The call number only will be written to standard output

The item information will be written to standard output

The report title option will be used

734 catalog(s) printed.

0 catacnt(s) printed.

734 call number(s) printed.

734 item(s) printed.

0 itemacnt(s) printed.

STILAS item printing finished on Monday, June 13, 1994, 12:21 PM

.folddata

.report

.title
Bibliography

Produced Monday, June 13, 1994 at 12:16 PM

.end
INUM: 02106-159
AUTH: WILKINS M.
CLSS: U
CORP: LAWRENCE RADIATION LAB
DATE: 7105
DESC: THEORY
REPN: TN 61 29
SYMJ: CONTAINED IN AFSWC SECOND HYDRODYNAMIC CONFERENCE, NUMERICAL METHODS
OF FLUID FLOW PROBLEMS, MAY 16-18, 1961
TITL: CALCULATION OF SPALL BASED ON A ONE-DIMENSIONAL MODEL (U), 10 P (U)

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02106-159

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copy: 1 id: 38582-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 11603
ADNO: 880619
AUTH: TOMPKINS R.C.
CLSS: U
CORP: Army Ballistic Research Labs. (Aberdeen Proving Ground-MD)
DATE: 7101
DESC: DELFIC EXPERIMENTAL TABULAR
DESC: Nuclear Weapon Environment radiation decay L1
DESC: Nuclear Weapon Environment fallout fractionation L1
REPN: BRL R 1523
SUJO: 2-223-400 ; 2-223-500
TITL: SENSITIVITY ANALYSIS OF THE DELFIC PARTICLE ACTIVITY MODULE (U), 136
P (U)

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11603

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copy: 1 id: 45330-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 11645
ADNO: 514895L
AUTH: GREENHOW C.R.
CLSS: SRD 1
CCDE: RANC III
CONN: F 04701 70 C 0059
CORP: AEROSPACE CORP (SAN BERNARDINO-CA)

DATE: 7104
DESC: THEORY
DESC: Nuclear Weapon Effects missile systems L1 FISSION GAMMA DOSE
REPN: TR 0059 S 6320 4 ; SAMSO TR 71 74
TSHO: HI-ALT
SUJO: 3-112-000
TEMP: 77726
TTTL: GAMMA RADIATION INCIDENT ON A WEAPON SYSTEM DURING FLY-THROUGH OF
THE DEBRIS CLOUD PRODUCED BY A FISSION WEAPON (U), 38 P (SRD)

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11645

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copy: 1 id: 45358-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11774
ABS: See DASIAC 11908 for abstract
ADNO: 514231L
AUTH: GIBSON N.N. ; MCNEILLY J.H.
CLSS: SRD 1
CORP: ARMY/BALLISTIC RESEARCH LABORATORIES (ABERDEEN PROVING GROUND-MD)
DATE: 7102
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: PARAMETRIC STUDY
DESC: Radiation Transport gamma L1
REPN: BRL R 1494 V 3
SUJO: 1-110-000 ; 1-710-000 ; 9-620-000
TEMP: 77473
TTTL: SOURCEBOOK FOR FREE FIELD NUCLEAR ENVIRONMENT DATA THE FREE FIELD
NEUTRON AND GAMMA RAY ENVIRONMENT (U), 200 P, (SRD)

TNFF: 4850

TREE: 910 ; 920

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11774

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copy: 1 id: 45467-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11903
AUTH: JENKINS A.L. ; HINKLEY D.E. ; SCHMOKE M.A.
CLSS: U
CONN: DAAA 15 67 C 0589
CORP: ARMY BALLISTIC RESEARCH LABS (ABERDEEN PROVING GROUND MD)
DATE: 7101
DESC: Cross Sections gamma L1 STRUCTURAL

DESC: THEORY EXPERIMENTAL SIMULATION
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L5
REPN: BRL 1522
SUJO: 3-312-210 ; 9-830-000
TITL: ANALYSIS OF IN-AND-DOWN SCATTERED RADIATION MEASUREMENTS IN A
BASEMENT (U), 162 P., (U)

.block
11903
.endblock

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copy: 1 id: 45559-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 11908

ABS: This series provides a sourcebook for the most accurate and detailed data currently available for the nuclear free-field environment requirements for ABM materials-hardening research studies. The free-field environment definition problem has been separated into two areas : weapon output and atmospheric transport (gas dynamics or radiation transport). An effort has been made to present the atmospheric transport calculations in sufficient generality that they can be readily coupled to specific weapon outputs. Recommendations for future work designed to augment the data where gaps exist and large inaccuracies prevail are given.

ADNO: 516753
AUTH: WEINSTEIN M. ; WILKINS C. ; BURGIO J.J. ; DEROSA T.J.
CLSS: SRD CNWDI 1
CORP: ARMY BALLISTIC RESEARCH LABS (ABERDEEN PROVING GROUND MD)
DATE: 7102
DESC: Nuclear Weapon Environment Prompt Neutron angular distribution L1
SPARTAN [REDACTED]
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
[REDACTED]
DESC: Nuclear Weapon Environment X-ray Output angular distribution L1
DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L1 [REDACTED]
[REDACTED]
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width L1
REPN: BRL R 1494 V 2
SUJO: 1-120-000 ; 1-130-000 ; 1-140-000 ; 1-620-000 ; 1-630-000 ;
1-720-000 ; 1-740-000
TEMP: 77344
TITL: SOURCEBOOK FOR FREE-FIELD NUCLEAR ENVIRONMENT DATA, VOL. 2-NUCLEAR
WARHEAD OUTPUT COMPILATION AND EFFECTS OF WEAPONIZATION (U), 90 P.,
(SRD CNWDI)

TNFF: 4850 ; 4805
TREE: 900

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11908
.endblock

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copy: 1 id: 45580-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11915
AUTH: SAPPENFIELD D.
CLSS: U
DATE: 7102
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1
DESC: Nuclear Weapon Environment Infrared Output energy spectrum L1
DESC: THEORY
REPN: LA 4303 (SUPPL)
SUJO: 1-320-000 ; 2-160-000
TITL: RADIATION FROM A RECOMBINING OXYGEN PLASMA (U), 5 P., (U)

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11915

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copy: 1 id: 45587-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11926
ADNO: 881754L
AUTH: COLEMAN W.A.
CLSS: U
CORP: ARMY BALLISTIC RESEARCH LABS (ABERDEEN PROVING GROUND MD)
DATE: 7102
DESC: Radiation Transport neutron L1 112 L5
DESC: HEURE THEORY TABULAR
REPN: BRL MR 2090
SUJO: 9-650-000
TITL: MONTE CARLO CALCULATION OF ENERGY DEPENDENT NEUTRON FLUENCE FOR THE
OPERATION HENRE ENVIRONMENT (U), 23 P., (U)

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11926

.endblock

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copy: 1 id: 45595-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11951
AUTH: STRAKER E.A. ; BURGART C.E. ; LOVE T.A. ; FREESTONE R.M.
CLSS: U
CORP: OAK RIDGE NATIONAL LAB
DATE: 7104
DESC: test instruments nuclear radiation neutron L1
DESC: EXPERIMENTAL
REPN: ORNL TM 3371

SUJO: 4-342-000
TITL: SIMULTANEOUS DETERMINATION OF FAST-NEUTRON SPECTRA BY TIME-OFFLIGHT
AND PULSE-HEIGHT UNFOLDING TECHNIQUES (U), 21 P., (U)

TREE: 652

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11951

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copy: 1 id: 45614-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 11957

ADNO: 515199L

AUTH: BADE W.L. ; DOLINSKY A.A.

CLSS: SRD 1

CONN: F 29601 68 C 0069

CORP: AVCO CORP (LOWELL MASS)

DATE: 7104

DESC: THEORY

DESC: Radiation Transport x-ray L1

DESC: Nuclear Weapon Environment X-ray Output rate L1

REPN: AFWL TR 70 91 V. 5 ; AVSD 0231 70 RR V. 5

TSHO: HI-ALT

SUJO: 1-640-000 ; 9-640-000

TEMP: 77893

TITL: THEORETICAL AND EXPERIMENTAL STUDY OF ADVANCED MATERIALS (TESAM)
VOL. 5-EVALUATION OF TECHNIQUES FOR PREDICTING ATMOSPHERIC PHOTON
TRANSPORT (U), 50 P., (SRD)

TREE: 980

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11957

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copy: 1 id: 45619-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11959

AUTH: KELLY J.G. ; HALBLEIB J.A. ; POSEY L.D.

CLSS: SRD CNWDI

CORP: SANDIA LABS (ALBUQUERQUE NM)

DATE: 7105

DESC: EXPERIMENTAL THEORY

DESC: test instruments nuclear radiation gamma L1

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1

REPN: SC WD 70 611

SHOT: CYPRESS ; HUDSON SEAL

TSHO: UG CONTAINED

SUJO: 1-740-000 ; 4-341-000

TEMP: 77864

TITL: FINAL GAMMA-RAY SPECTROMETER RESULTS FOR HUDSON SEAL AND CYPRESS

TESTS (U), 105 P., (SRD CNWDI)

TREE: 910

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11959

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copy: 1 id: 45621-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 11991

AUTH: REAGAN J.B. ; IMHOF W.L. ; JOHNSON R.G. ; SHARP R.D.

CLSS: U

CONN: N00014 70 C 0334

CORP: LOCKHEED MISSILES AND SPACE CO (PALO ALTO CA)

DATE: 7104

DESC: ionospheric properties during storms disturbances L1

DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1

REPN: LMSC/N HE 71 1

SUJO: 5-720-000 ; 5-800-000

TITL: SATELLITE DATA ANALYSIS FOR OPERATION PCA-69 ROCKET COORDINATION
(U), CA. 35 P., (U)

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11991

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copy: 1 id: 45628-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12018

ADNO: 514852L

AUTH: BLOCK J.L.

CLSS: SRD 1

CCDE: ELECTREX

CONN: DASA LA 013

CORP: NAVAL RESEARCH LAB (WASH D.C.)

DATE: 7102

DESC: Cross Sections electron L1 X RAY PRODUCTION

DESC: TABULAR

DESC: Simulation Facilities Techniques x-ray effects L1 GAMBLE I

REPN: NRL 2208

SUJO: 4-231-000 ; 9-850-000

TEMP: 77734

TITL: RADIATION DIAGNOSTICS PROGRAM FOR THE GAMBLE I ELECTRON BEAM
GENERATOR (U), 75P., (SRD)

TREE: 642

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12018

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copy: 1 id: 45651-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 12141
ADNO: 726353
AUTH: BOESCH H.E. ; CONRAD E.E.
CLSS: U
CORP: ARMY HARRY DIAMOND LABS (WASHINGTON DC)
DATE: 7105
DESC: Simulation Facilities Techniques TREE L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 TREE DIELECTRICS X RAY
DESC: SIMULATION ; THEORY EXPERIMENTAL
REPN: HDL TR 1537
SUJO: 3-229-000 ; 4-272-000
TITL: RADIATION-INDUCED CONDUCTIVITY IN N-HEXANE, NEOHEXANE, AND SPECIAL
POLYSTERENEFILMS (U), 79 P., (U)
TREE: 385

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12141
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copy: 1 id: 45738-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 12142
AUTH: BOESCH H.E.
CLSS: U
CORP: ARMY HARRY DIAMOND LABS (WASHINGTON DC)
DATE: 7105
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CAPACITORS TREE
DIELECTRICS
DESC: CODE THEORY
REPN: HDL TR 1545
SUJO: 3-229-000
TITL: COMPUTER-AIDED DATA REDUCTION TECHNIQUE FOR RADIATION-INDUCED
CONDUCTIVITY EXPERIMENTS (U), 47 P., (U)
TREE: 385 ; 370

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12142
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copy: 1 id: 45739-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 12155
AUTH: PACE J.V. III ; MYNATT F.R. ; ABBOTT L.S.

CLSS: U
CCDE: ANISM
CORP: OAK RIDGE NATIONAL LAB (OAK RIDGE TENN)
DATE: 7106
DESC: Radiation Transport neutron L1
DESC: TABULAR
REPN: ORNL TM 3269 ; CTC 40
SUJO: 9-650-000
TITL: STUDY OF THE OVERLAP CONDITIONS REQUIRED IN SEQUENTIAL DISCRETE
ORDINATES TRANSPORT CALCULATIONS FOR A 14-MEV NEUTRON SOURCE IN A
5000-M RADIUS CYLINDER OF AIR (U), 13 P., (U)

TREE: 970

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12155

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copy: 1 id: 45742-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12172

ADNO: 884974

AUTH: BINDER D. ; BERGGREN C.C.

CLSS: U

CONN: F 29601 70 C 0031

CORP: HUGHES AIRCRAFT CO (CULVER CITY CA)

DATE: 7105

DESC: THEORY EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers TREE NUCLEAR RADIATION

REPN: AFWL TR 71 7

SUJO: 3-221-000

TITL: ENGINEERING MODEL FOR RAPID ANNEALING (U), 40 P., (U)

TREE: 310 ; 250

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12172

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copy: 1 id: 45752-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12178

CLSS: U

CORP: AIR FORCE WEAPONS LAB

DATE: 7106

DESC: test instruments nuclear radiation gamma

DESC: test instruments electronic vulnerability EMP

DESC: HANDBOOK

EMPF: 800

REPN: AFWL EMP MEASUREMENT 1 1

SUJO: 4-341-000 ; 4-371-000

TITL: ELECTROMAGNETIC PULSE SENSOR HANDBOOK (U), CA. 50 P., (U)

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12178

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copy: 1 id: 45753-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12202

AUTH: BUXTON L.D.

CLSS: U

CCDE: ZEBRA 1

CONN: DASA MIPR 506 70

CORP: HARRY DIAMOND LABS (WASHINGTON, DC)

DATE: 7106

DESC: Radiation Transport electron L1

DESC: THEORY

EMPF: 391

REPN: HDL TR 1536

SUJO: 9-680-000

TITL: ELECTRON TRANSPORT COMPUTER CODE ZEBRA 1 (U), 36 P., (U)

TREE: 990

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copy: 1 id: 45777-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12236

AUTH: DRENNAN J.E. ; HAMMAN D.J.

CLSS: U

CONN: NASW 1568

CORP: BATTELLE MEMORIAL INSTITUTE/COLUMBUS LABS/RADIATION EFFECTS
INFORMATION CENTER(COLUMBUS OHIO)

DATE: 7108

DESC: LOW LEVEL STEADY STATE EXPOSURE ; HANDBOOK

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

REPN: NASA CR 1834

SUJO: 3-221-000

TITL: RADIATION EFFECTS DESIGN HANDBOOK, SECTION 4-TRANSISTORS (U), 34 P.,
(U)

TREE: 310

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12236

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copy: 1 id: 45798-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 12237
AUTH: BROADWAY N.J.
CLSS: U
CONN: NASW 1568
CORP: BATTELLE MEMORIAL INSTITUTE/COLUMBUS LABS/RADIATION EFFECTS
INFORMATION CENTER(COLUMBUS OHIO)
DATE: 7106
DESC: LOW LEVEL STEADY STATE EXPOSURE ; HANDBOOK
DESC: Nuclear Weapon Effects materials coatings laminates L1
REPN: NASA CR 1786
SUJO: 3-245-000
TTIL: RADIATION EFFECTS DESIGN HANDBOOK, SECTION 2-THERMAL-CONTROL
COATINGS (U), CA.50 P., (U)

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12237

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copy: 1 id: 45799-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 12250
ADNO: 514969
AUTH: IMHOF W.L.
CLSS: SRD 1
CONN: N 00014 69 C 0372
CORP: LOCKHEED MISSILES AND SPACE CO (SUNNYVALE CA)
DATE: 7104
DESC: DESIGN
DESC: test instruments nuclear radiation gamma L1
REPN: LMSC B290093
SUJO: 4-341-000
TEMP: 79474
TTIL: HIGH-RESOLUTION GAMMA-RAY SPECTROSCOPY STUDY, ANNUAL TECHNICAL
REPORT (U), 29 P., (SRD)
TREE: 651

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12250

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copy: 1 id: 45811-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 12251
ADNO: 514702
AUTH: KRATZ H.R. ; RINEHART R.E.
CLSS: SRD 1
CONN: F 29601 69 C 0076

CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO CA)
DATE: 7101
DESC: EXPERIMENTAL
DESC: Nuclear Warfare Strategic systems defense [REDACTED] L1
REPN: AFWL TR 70 95
SUJO: 3-423-800
TEMP: 79479
TTTL: EXPERIMENTAL INVESTIGATION OF HIGH EXPLOSIVELY ACCELERATED PLATES
AND PELLETS(U), 78 P., (SRD)

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12251

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copy: 1 id: 45812-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12252

AUTH: BALICKI F.W. ; DENT J.R. ; MEAD O.J. JR. ; PALMISANO R.R. ; SELF
C.T. ; SPICKLER R.M. ; TOMPKINS J.E. ; TRIMMER P.A.

CLSS: SRD 1

CORP: HARRY DIAMOND LABS (WASHINGTON DC)

DATE: 7104

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1

DESC: CONVENTIONAL SIMULATION TREE NEUTRONS PERMANENT DAMAGE ;,
EXPERIMENTAL

REPN: HDL TR 1543

SUJO: 3-219-000

TEMP: 79457

TTTL: TRANSIENT RADIATION EFFECTS ON MINI-RAD FUZE (U), 187 P., (SRD)

TREE: 394

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12252

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copy: 1 id: 45813-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12259

ADNO: 728751

AUTH: WILSON D.M.

CLSS: U

CORP: NAVAL ORDNANCE LAB (WHITE OAK SILVER SPRING MD)

DATE: 7106

DESC: Nuclear Weapon Effects structures aboveground models cylinders cones
rings L1 THERMAL

DESC: THEORY TABULAR

REPN: NOLTR 71 61

SUJO: 3-259-400

TTTL: DISTRIBUTION AND HISTORY OF TEMPERATURE IN CIRCULAR CYLINDERS

EXPOSED TO THE THERMAL RADIATION PULSE OF A NUCLEAR DETONATION (U),
144 P., (U)

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12259

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copy: 1 id: 45817-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12270

AUTH: BUCHER W.P. ; HOLLANDSWORTH C.E. ; LAMOREAUX R.D. ; SANKEY R.R. ;

ECCLESHALL D.

CLSS: U

CORP: ARMY BALLISTIC RESEARCH LABS (ABERDEEN PROVING GROUND MD)

DATE: 7106

DESC: Radiation Transport neutron L1

DESC: EXPERIMENTAL

REPN: BRL MR 2099

SUJO: 9-650-000

TITL: NOTE ON THE SMALL-ANGLE ELASTIC SCATTERING OF FAST NEUTRONS FROM C,
N, AND O, (U), 33 P., (U)

TREE: 412

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copy: 1 id: 45824-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12274

ADNO: 514682

AUTH: SMALL T.M. ; SACCENTI J.C. ; MCNEILLY J.H.

CLSS: SRD 1

CORP: ARMY BALLISTIC RESEARCH LABS (ABERDEEN PROVING GROUND MD)

DATE: 7101

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects materials ceramics optical L1 CERAMIC LEAD

ZIRCONATE TITANATE CRYSTAL , 4332 L1

REPN: BRL TN 1742

SUJO: 3-241-000

TEMP: 79578

TITL: RESPONSE OF PZT 65/35 TO NANOSECOND PULSE OF IONIZING RADIATION (U),

46 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12275
ADNO: 516042
AUTH: SHEA J.H. ; MAZZELLA A. ; AVRAMI L. ; JACKSON H.J.
CLSS: SFRD 1
CONN: DAAG 05 69 C 0005
CORP: PHYSICS INTERNATIONAL ; PICATINNY ARSENAL
DATE: 7105
DESC: Nuclear Weapon Effects ordnance explosives L1 XRAY LMNR KDNBF LEAD
AZIDE LEAD STYPHNATE SHOCK
DESC: EXPERIMENTAL
REPN: PIFR 129 ; PATR 4230
SUJO: 3-163-000
TEMP: 79539
TITL: EFFECTS OF A RADIATION PULSE UPON PRIMARY EXPLOSIVES (U), 187 P.,
(SFRD)

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created: 12/27/1991 type: REPORT permanent

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INUM: 12280
ADNO: 594548
AUTH: STUART W.D.
CLSS: S 1
CONN: DAHC 15 70 C 0159
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS, OH)
DATE: 7101
DESC: nuclear test detection seismic detection L1
DESC: nuclear test detection trapped radiation L1 VELA HOTEL
DESC: nuclear test detection geomagnetic perturbation detection L1
DESC: nuclear test detection acoustic detection
DESC: SURVEY
DESC: nuclear test detection debris fallout
DESC: nuclear test detection EMP earth current detection
DESC: nuclear test detection atmospheric ionization detection RF emission
RF propagation disturbances L1 VLF LF HF HANDS
EMPF: 270
SUJO: 4-910-100 ; 4-910-300 ; 4-910-700 ; 4-911-000 ; 4-913-000 ;
4-914-000 ; 4-919-000
TEMP: 79681
TITL: SURVEY OF THE UNCLASSIFIED LITERATURE ON THE DETECTION,
IDENTIFICATION, AND LOCATION OF NUCLEAR EXPLOSIONS (U), 224 P., (S)

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12280

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copy: 1 id: 45830-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 12284
ADNO: 885884
AUTH: LONG D.M. ; OLESEN H.L. ; TAMPANELLO J. ; CASEY R.H.
CLSS: U
CONN: F 29618 70 C 0297
CORP: GENERAL ELECTRIC CO/REENTRY AND ENVIRONMENTAL SYSTEMS DIVISION
(PHILADELPHIA PA)
DATE: 7107
DESC: HARDENING REQUIREMENTS ; THEORY
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
X RAY
REPN: AFCRL 71 0250
SUJO: 3-222-000
TITL: MIS FET RADIATION HARDENING REQUIREMENTS (U), 193 P., (U)
TREE: 325

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 12285
ADNO: 887805
AUTH: STEVENS C.A. ; DIETZ R.E.
CLSS: U
CCDE: 05R-NIES
CONN: F 29601 70 C 0014
CORP: SCIENCE APPLICATIONS INC (LA JOLLA, CA)
DATE: 7108
DESC: THEORY
DESC: Radiation Transport neutron L1
DESC: Electromagnetic Theory Applications L1
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1 EMP
SOURCES GROUND SURFACE DETONATION
EMPF: 240
REPN: AFWL TR 71 8
SUJO: 2-510-000 ; 9-300-000 ; 9-650-000
TITL: LATE-TIME EMP SOURCES, INCLUDING GROUND CONTRIBUTIONS (U), 208 P.,
(U)

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copy: 1 id: 45834-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 12322
AUTH: BROWN W.A. ; GUNTON R.C. ; MCCORMAC B.M. ; SEARS R.D.
CLSS: S 3
CONN: DAHC 60 70 C 0081
CORP: LOCKHEED MISSILES AND SPACE CO (PALO ALTO CA)
DATE: 7104
DESC: test instruments IR L1
DESC: Nuclear Weapon Effects Light scattering optical interference from
dust L1 ALO INTERFERENCE WITH IR SYSTEMS
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1
DESC: SIMULATION (CHEMICAL RELEASE) ; SURVEY
REPN: LMSC B290020
TSHO: HI-ALT
SUJO: 2-226-000 ; 4-383-000 ; 4-820-600
TEMP: 79773
TITL: NUCLEAR INTERFERENCE. METAL OXIDE CHEMICAL RELEASE EXPERIMENTAL
DEFINITION, FINAL REPORT PART 1, (U), 122 P., (S)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12344
AUTH: DICKENS J.K.
CLSS: U
CORP: OAK RIDGE NATIONAL LAB (OAK RIDGE TENN)
DATE: 7108
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation gamma L1 CALIBRATION SOURCE
REPN: ORNL TM 3509
SUJO: 4-341-000
TITL: ENERGIES AND INTENSITIES OF GAMMA RAYS EMITTED BY A 226RA SOURCE
(U), 17 P., (U)

TREE: 651

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copy: 1 id: 45868-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12349
ADNO: 887454
AUTH: TAIMUTY S.I. ; STEHLE R.H. ; WHITSON A.L.
CLSS: U
CONN: F 29601 69 C 107
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA)

DATE: 7107
DESC: SIMULATION ; EXPERIMENTAL
DESC: Simulation Facilities Techniques TREE L1
DESC: test instruments electronic vulnerability EMP L1
DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1 EMP TREE IEMP
EMPF: 812
REPN: AFWL TR 71 44
SUJO: 3-224-000 ; 4-272-000 ; 4-371-000
TITL: LABORATORY STUDY OF RADIATION EFFECTS ON ELECTRIC FIELD SENSORS (U),
114 P., (U)
TREE: 365

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copy: 1 id: 45872-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12371
ABS: See DASIAC 11908 for abstract
ADNO: 516753
AUTH: BANKS N.E. ; WRIGHT W.P.
CLSS: SRD 1
CORP: BALLISTIC RESEARCH LABS (ABERDEEN PROVING GROUND MD)
DATE: 7106
DESC: Radiation Transport x-ray L1 AIR
DESC: SOURCEBOOK
DESC: General Atmospheric Properties L9 P5.10
REPN: BRL R 1494 V 4
SUJO: 5-100-000 ; 9-640-000
TEMP: 79568
TITL: SOURCEBOOK FOR FREE-FIELD NUCLEAR-ENVIRONMENT DATA. THE FREE-FIELD
X-RAY ENVIRONMENT (U), 147 P., (SRD)
TNFF: 4855
TREE: 930

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copy: 1 id: 45887-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12373
AUTH: CAMPBELL J.E. ; DUPREE S.A. ; FORSMAN M.L.
CLSS: U
CCDE: CDR
CORP: NAVAL WEAPONS EVALUATION FACILITY (ALBUQUERQUE NM)
DATE: 7107
DESC: THEORY TABULAR

DESC: Radiation Transport neutron L1
REPN: NWEF 1081
SUJO: 9-650-000
TITL: CDR--A PROGRAM TO CALCULATE CONSTANT DOSE RANGES FROM A POINT SOURCE
OF RADIATION IN THE ATMOSPHERE (U), 65 P., (U)

TREE: 970

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copy: 1 id: 45889-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12375

AUTH: GREEN M.L. ; HAMMAN D.J.

CLSS: U

CONN: NASW 1568

CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS LABS)

DATE: 7109

DESC: Radiation Transport gamma L1

DESC: Cross Sections gamma L1

DESC: Cross Sections x-ray L1

DESC: Cross Sections neutron L1

DESC: SOURCEBOOK

DESC: Radiation Transport x-ray L1

DESC: Radiation Transport neutron L1

REPN: NASA CR 1871

SUJO: 9-620-000 ; 9-640-000 ; 9-650-000 ; 9-820-000 ; 9-830-000 ;

9-840-000

TITL: RADIATION EFFECTS DESIGN HANDBOOK SECTION 5. THE RADIATIONS IN SPACE
AND THEIR INTERACTIONS WITH MATTER (U), 61 P., (U)

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copy: 1 id: 45891-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12398

AUTH: DRENNAN J.E.

CLSS: U

CONN: NASW-1568, AUGUST 1971

CORP: BATTELLE MEMORIAL INSTITUTE/COLUMBUS LABS (COLUMBUS OHIO)

DATE: 7108

DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1

SIMULATION

DESC: HANDBOOK

REPN: NASA CR 1872

SUJO: 3-223-000

TITL: RADIATION EFFECTS DESIGN HANDBOOK SECTION 6. SOLID-STATE

PHOTODEVICES (U), 28 P., (U)

TREE: 362

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copy: 1 id: 45908-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12423

ADNO: 730321

AUTH: MATTHEWS H.J. 3RD

CLSS: U

CCDE: TRAC

CORP: HARRY DIAMOND LABS (WASHINGTON, DC)

DATE: 7107

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit

network L1 TREE CIRCUIT ANALYSIS

DESC: CODE

EMPF: 330

REPN: HDL TR 1522

SUJO: 3-219-000

TITL: TRANSIENT RADIATION ANALYSIS BY COMPUTER PROGRAM (TRAC)-360 VERSION

(U), 226 P., (U)

TREE: 330

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copy: 1 id: 45945-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12454-2

AUTH: HYMAN E. ; YOUNG T. ; COFFEY T.

CLSS: SFRD 1

CONN: N00014 69 C 0376

CORP: EG+G INC (RIVERDALE MD)

DATE: 7108

DESC: SPARTAN ; THEORY

DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry thermal

shock L1

DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1

REPN: EGG WRG 6

TSHO: HI-ALT

SUJO: 2-160-000 ; 2-312-500

SYMJ: PLASMA DYNAMIOCS TECHNICAL NOTES, VOL. 4

TITL: DEPOSITION OF ULTRAVIOLET RADIATION FOLLOWING A SPARTAN BURST (U),

73 P., (SFRD)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12464

AUTH: WELLS M.B. ; NEWELL J.M.

CLSS: SRD 1

CCDE: ZAP ; PFLASH

CONN: F 33657 70 C 0901

CORP: RADIATION RESEARCH ASSOCIATES INC (FORT WORTH TEX)

DATE: 7110

DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry

general descriptions L1 SPATIAL DISTRIBUTION TIME DISTRIBUTION

DESC: MONTE CARLO SPARTAN BURST HIGH ALTITUDE/X-RAY ; CODE THEORY

REPN: RRA T7106

SUJO: 2-311-000

TEMP: 81015

TITL: MONTE CARLO CALCULATIONS OF X-RAY ENERGY DEPOSITION IN THE EARTHS
ATMOSPHERE (U), 78 P., (SRD)

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12464

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copy: 1 id: 46010-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12477

AUTH: CHRISTIANSON C.

CLSS: S 3

CORP: NAVAL ORDNANCE LABS (SILVER SPRING MD)

DATE: 7108

DESC: SIMULATION ; EXPERIMENTAL

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio

microwave systems L1 THERMAL RADOMES

DESC: Nuclear Weapon Effects materials plastics resins L1

REPN: NOLTR 71 135

SUJO: 3-132-000 ; 3-244-000

TEMP: 81036

TITL: EFFECTS OF THERMAL RADIATION ON RADOME MATERIALS (U), 62 P., (S)

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copy: 1 id: 46015-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12483

ADNO: 888998
AUTH: HARRITY J.W. ; AZAREWICZ J.L. ; LEADON R.E. ; COLWELL J.F. ; MALLON
C.E.
CLSS: U
CONN: F 29 (601) 70 C 0061
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO CA)
DATE: 7110
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1
DESC: SIMULATION (PULSE REACTOR) ; EXPERIMENTAL THEORY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 SILICON
DESC: Nuclear Weapon Effects space systems L1 SOLAR CELLS TREE
REPN: AFWL TR 71 28 ; GULF TR 10480
SUJO: 3-114-000 ; 3-221-000 ; 3-223-000
TITL: EXPERIMENTAL AND THEORETICAL INVESTIGATION OF FUNCTIONAL
DEPENDENCIES OF RAPIDANNEALING (U), 136 P., (U)
TREE: 362 ; 310

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copy: 1 id: 46020-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12491
AUTH: KANGILASKI M.
CLSS: U
CONN: NASW 1568
CORP: BATTELLE MEMORIAL INSTITUTE, COLUMBUS LABS (COLUMBUS OHIO)
DATE: 7109
DESC: Nuclear Weapon Effects materials metals alloys L1 NUCLEAR RADIATION
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL SURVEY
REPN: NASA CR 1873
SUJO: 3-243-000
TITL: RADIATION EFFECTS DESIGN HANDBOOK, SECTION 7. STRUCTURAL ALLOYS (U),
146 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12493
AUTH: SCHMOKE M.A. ; REXROAD R.E.
CLSS: U
CORP: BALLISTIC RESEARCH LABS (ABERDEEN PROVING GROUND MD)
DATE: 7107
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1

DESC: SIMULATION (ISOTOPE FIELD) ; EXPERIMENTAL
DESC: Simulation Facilities Techniques nuclear radiation fallout
simulation L1
REPN: BRL R 1544
SUJO: 3-312-210 ; 4-242-000
TITL: EVALUATION OF INTERNAL RADIAC DETECTOR POSITIONS FOR M109
SELF-PROPELLED HOWITZER M107 SELF-PROPELLED GUN M577 COMMAND POST
CARRIER XM104 SELF-PROPELLED HOWITZER (U), 56 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12532
ADNO: 728410
AUTH: BUNNEY L.R. ; SAM D.
CLSS: U
CONN: DAHC 20 70 C 0284
CORP: NAVAL ORDNANCE LAB (SILVER SPRING MD)
DATE: 7106
DESC: test instruments nuclear radiation fallout debris sampling
collectors L1
DESC: Nuclear Weapon Environment fallout fractionation L1
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
REPN: NOLTR 71 103
SUJO: 2-223-200 ; 2-223-410 ; 2-223-500 ; 4-345-000
TITL: GAMMA-RAY SPECTRA OF FRACTIONATED FISSION PRODUCTS (U), 35 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 12551
ABS: The survivability of a military system depends on its design,
construction, the threat posed to it by an enemy, and tactics under
which we employ the system. The problem of evaluating survivability
with confidence is usually simplified by specifying the hardness
required, i.e., the environments the system must withstand without
serious degradation, avoiding the time-evolving issues of threat and
tactics. If the hardness requirements have been chosen wisely, they
allow for an acceptable range of tactics on our part to compensate
for credible ranges of evolving threats during the effective life of
the system. Hardness is a characteristic of the hardware: its
design, production, deployment, maintenance, aging, etc. Confidence

in hardness is, in addition, a function of our knowledge. This document addresses the issues associated with establishing confidence in hardness.

ABS: It presumes to start with a system that has been designed and is currently deployed and deals exclusively with survivability philosophy.

AUTH: VAN LINT V.A.J.
CLSS: U
CONN: F 04701 70 C 0096
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO CA)
DATE: 7108
DESC: Nuclear RDT&E Research Program Descriptions integrated effects system studies L1
DESC: SUMMARY
REPN: GULF RT A10799
SUJO: 4-160-000
TITL: CONFIDENCE IN SURVIVABILITY (U), 9 P., (U)
TNFF: 5100

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12561
AUTH: SROUR J.R. ; CURTIS O.L. ; OTHMER S. ; RAUCH R.B.
CLSS: U
CONN: DAAG 39 69 C 0039
CORP: NORTHROP CORPORATE LABS (HAWTHORNE CA)
DATE: 7108
DESC: SIMULATION (ISOTOPE IRRADIATION) ; EXPERIMENTAL THEORY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes silicon-controlled rectifiers L1 NUCLEAR RADIATION
REPN: NCL 71 29R
SUJO: 3-221-000
TITL: RADIATION EFFECTS IN SILICON AND GERMANIUM (U), 246 P., (U)
TREE: 200

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 12569
AUTH: RADKE H.H.
CLSS: SRD 1
CONN: F 04701 71 C 0172
CORP: AEROSPACE CORP. (SAN BERNARDINO CA)

DATE: 7109
DESC: Nuclear Weapon Effects ordnance propellants solid L1
DESC: SURVEY
DESC: Nuclear Weapon Effects missile systems L1
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1 X
RAY NUCLEAR RADIATION
REPN: TOR 0172 (S2320 01) 6
SUJO: 3-112-000 ; 3-162-000 ; 3-164-000
TEMP: 81109
TITL: PROCEEDINGS OF THE SECOND ANNUAL MEETING OF THE NUCLEAR
SURVIVABILITY WORKING GROUP ON PROPULSION AND ORDNANCE SYSTEMS, VOL.
1 (U), CA. 300 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 12569-06
AUTH: SULLIVAN R.P. ; VITKOVITSKY I.M.
CLSS: S
CORP: DASA (WASHINGTON DC) ; NAVAL RESEARCH LAB (WASHINGTON DC)
DATE: 7109
DESC: Simulation Facilities Techniques thermal optical L1
DESC: EXPERIMENTAL
SUJO: 4-280-000
SYMJ: BOUND IN WITH. PROCEEDINGS OF THE SECOND ANNUAL MEETING OF THE
NUCLEAR SURVIVABILITY WORKING GROUP ON PROPULSION AND ORDNANCE
SYSTEM, VOL. 1
TITL: REVIEW OF RADIATION SIMULATOR CAPABILITIES FOR PROPULSION AND
ORDNANCE VULNERABILITY PROGRAMS (U), 14 P., (S)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 12569-10
AUTH: AVRAMI L. ; SHEA J. ; MAZZELLA A.
CLSS: SFRD
CORP: PICATINNY ARSENAL ; PHYSICS INTERNATIONAL CO
DATE: 7109
DESC: Nuclear Weapon Effects ordnance explosives L1 X RAY
DESC: SIMULATION (E BEAM) ; EXPERIMENTAL
SUJO: 3-163-000
SYMJ: BOUND IN WITH. PROCEEDINGS OF THE SECOND ANNUAL MEETING OF THE
NUCLEAR SURVIVABILITY WORKING GROUP ON PROPULSION AND ORDNANCE
SYSTEM, VOL. 1 CO

TITL: EFFECTS OF A RADIATION PULSE ON EXPLOSIVE MATERIALS (U), 50 P.,
(SFRD)

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copy: 1 id: 46124-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12616-22A

AUTH: ROSSMAN R.V. ; HUNTINGTON J.H. ; HAMMOND J.A. ; SZYMANSKI D.R. ;
PLOCK R.J.

CLSS: S

CONN: F 04611 69 C 0062

CORP: PHYSICS INTERNATIONAL CO (SAN LEANDRO CA) ; LOCKHEED PROPULSION CO
(REDLANDS CA)

DATE: 7109

DESC: SIMULATION (ELECTRON BEAM) X RAYS ; EXPERIMENTAL

DESC: Nuclear Weapon Effects ordnance propellants solid L1 AMMONIUM
PERCHLORATE

SHOT: DIESEL TRAIN

SUJO: 3-164-000

SYMJ: BOUND IN PROCEEDINGS OF THE SECOND ANNUAL MEETING OF THE NUCLEAR
SURVIVABILITYWORKING GROUP ON PROPULSION LAB AND ORDNANCE SYSTEMS,
VOL. 2

TITL: EFFECTS OF PULSED RADIATION ON MECHANICAL PROPERTIES OF A COMPOSITE
PROPELLANT(U), 19 P., (S)

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copy: 1 id: 46170-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 12616-22C

AUTH: ROSSMAN R.V. ; HUNTINGTON J.H. ; SMALL K. ; SZYMANSKI D.R. ; HAMMOND
J.A.

CLSS: U

CONN: F 04611 69 C 0062

CORP: PHYSICS INTERNATIONAL CO (SAN LEANDRO CA) ; LOCKHEED PROPULSION CO
(REDLANDS CA)

DATE: 7109

DESC: Nuclear Weapon Effects ordnance propellants solid L1

DESC: SIMULATION (ELECTRON BEAM) ; EXPERIMENTAL

SUJO: 3-164-000

SYMJ: BOUND IN PROCEEDINGS OF THE SECOND ANNUAL MEETING OF THE NUCLEAR
SURVIVABILITYWORKING GROUP ON PROPULSION LAB AND ORDNANCE SYSTEMS,
VOL. 2

TITL: INSTANTANEOUS MEASUREMENT OF PROPELLANT BURNING RATE CHANGES CAUSED
BY PULSED RADIATION (U), 19 P., (S)

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copy: 1 id: 46172-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12620
ADNO: 516585
AUTH: WOLFARD H.G. ; BAUER E.
CLSS: SRD 1
CONN: DAHC 15 67 C 0011
CORP: INSTITUTE FOR DEFENSE ANALYSES (ARLINGTON VA)
DATE: 7105
DESC: LWIR SIMULATION (CHEMICAL RELEASE) UV ; THEORY SUMMARY EXPERIMENTAL
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1
DESC: Emission Spectra of the Atmosphere L5
REPN: P 766
SUJO: 2-160-000 ; 5-600-000
TEMP: 81167
TITL: PROPOSED PROGRAM FOR THE STUDY OF RADIATION CAUSED BY NUCLEAR EVENTS
(U), 55 P., (SRD)

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12620

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copy: 1 id: 46179-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12666
AUTH: BUCHER W.P. ; HOLLANDSWORTH C.E. ; LAMOREAUX R.D. ; NIILER A. ;
SANKEY R.R. ; ECCLESHALL D.

CLSS: U

CORP: BALLISTIC RESEARCH LABS (ABERDEEN PROVING GROUND, MD.)

DATE: 7111

DESC: test instruments nuclear radiation neutron L1

DESC: THEORY EXPERIMENTAL

DESC: Cross Sections neutron L1 CARBON NITROGEN OXYGEN LEAD

REPN: BRL R 1562

SUJO: 4-342-000 ; 9-820-000

TITL: SMALL-ANGLE ELASTIC SCATTERING OF 7.55 AND 9.50 MEV NEUTRONS FROM C,
N, AND O (U), 43 P., (U)

TREE: 412

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12666

.endblock

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copy: 1 id: 46236-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12670
AUTH: OVERMYER R.F. ; BRUSH D.S. ; WEIMAN A.L.
CLSS: SRD 1
CONN: DAAG 39 69 C 0021
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO CA)
DATE: 7105
DESC: SIMULATION (E-BEAM, XRAY GENERATOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
XRAY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
REPN: HDL 021 1
SHOT: MINUTE STEAK ; MIDI MIST ; DORSAL FIN
TSHO: UG CONTAINED
SUJO: 3-221-000 ; 3-222-000
TEMP: 81228
TITL: SHOCK EFFECTS IN ELECTRONIC COMPONENTS (U), 202 P., (SRD)
TREE: 310 ; 320

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12670

.endblock

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copy: 1 id: 46238-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12674
AUTH: SOLOMITO M. ; STEVENS P.N. ; STRAKER E.A. ; BURGART C.E. ; CRAMER
S.N.
CLSS: U
CCDE: MORSE ; ANISN
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)
DATE: 7112
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1 COSE
CALCULATIONS
DESC: Radiation Transport gamma L1
DESC: THEORY TABULAR
DESC: Radiation Transport neutron L1
REPN: ORNL TM 3530
SUJO: 3-312-100 ; 9-620-000 ; 9-650-000
TITL: METHODS OF BIASING SECONDARY GAMMA-RAY PRODUCTION IN COUPLED NEUTRON
GAMMA-RAYMONTE CARLO CALCULATIONS (U), 81 P., (U)
TREE: 960 ; 970

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12674

.endblock

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copy: 1 id: 46242-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12676
AUTH: STRAKER E.A. ; EMMETT M.B.
CLSS: U
CCDE: MORSE
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)
DATE: 7110
DESC: Radiation Transport neutron L1
DESC: Radiation Transport gamma L1
DESC: CODE TABULAR
REPN: ORNL TM 3585
SUJO: 9-620-000 ; 9-650-000
TITL: COLLISION SITE PLOTTING ROUTINES AND COLLISION DENSITY FLUENCE
ESTIMATES FOR THE MORSE MONTE CARLO CODE (U), 125 P., (U)
TREE: 960 ; 970

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12676

.endblock

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copy: 1 id: 46243-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12726
ADNO: 730625
AUTH: COHEN M.O.
CLSS: U
CCDE: NUADATA ; MAGI-SGD
CONN: F 29601 69 C 0094
CORP: MATHEMATICAL APPLICATIONS GROUP, INC. (WHITE PLAINS, NY)
DATE: 7109
DESC: CODE
DESC: test instruments nuclear radiation L1
REPN: AFWL TR 70 185
SUJO: 4-340-000
TITL: NUADATA A COMPUTER PROGRAM TO PREPARE CROSS-SECTION DATA FOR THE
MAGI-SGD CODE (U), 62 P., (U)

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12726

.endblock

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copy: 1 id: 46285-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12727
AUTH: SCHMOKE M.A. ; BOLIN L.R.
CLSS: U
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD)
DATE: 7110
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
DESC: Cross Sections gamma L1 M41 TANK M 578 RECOVERY VEHICLE M 125A

MORTAR

DESC: SIMULATION (ISOTOPIC) ; EXPERIMENTAL
REPN: BRL R 1555
SUJO: 3-312-210 ; 9-830-000
TITL: FALLOUT SHIELDING CHARACTERISTICS OF COMBAT VEHICLES M125A
SELF-PROPELLED MORTAR M578 RECOVERY VEHICLE M41 TANK (U), 34 P., (U)

.block

12727

.endblock

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copy: 1 id: 46286-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12730
ADNO: 889835L
AUTH: MOONEY L.G. ; FRENCH R.L.
CLSS: U
CONN: DAAD 05 70 C 0280
CORP: RADIATION RESEARCH ASSOCIATES, INC. (FT. WORTH, TEX.)
DATE: 7110
DESC: SIMULATION (NEUTRON SOURCE) ; TABULAR EXPERIMENTAL THEORY
DESC: Radiation Transport neutron L1 AIR-GROUND INTERFACE
DESC: Nuclear Weapon Environment Prompt Neutron angular distribution L1
REPN: RRA T7101 ; CR 59
TSHO: LOW ALT
SUJO: 1-130-000 ; 9-650-000
TITL: LAST-COLLISION MODEL OF THE AIR-GROUND INTERFACE ON FAST-NEUTRON
ANGLE DISTRIBUTIONS (U), 53 P., (U)

TREE: 980

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12730

.endblock

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copy: 1 id: 46288-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12739
AUTH: ALLEN K.J.
CLSS: U
CORP: HARRY DIAMOND LABS. (WASHINGTON, D.C.)
DATE: 7111
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1
REPN: HDL TM 71 20
SUJO: 4-241-000
TITL: 2-CURIE COBALT60 GAMMA POINT SOURCE STORAGE AND EXPOSURE DEVICE (U),
24 P., (U)

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12739

.endblock

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copy: 1 id: 46292-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12743
ADNO: 516056L
AUTH: COX S.B.
CLSS: SRD 1
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, NM)
DATE: 7104
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 X RAY 164 L5 P 42
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L5 P 45 111 L5 P
DESC: SIMULATION (E BEAM) ; EXPERIMENTAL
REPN: AFWL TR 71 35
SHOT: MINUTE STEAK
TSHO: UG CONTAINED
SUJO: 1-710-000 ; 3-221-000
TEMP: 81219
TITL: ALUMINUM METALIZATION FAILURE MECHANISMS IN A RADIATION ENVIRONMENT
(U), 88 P., (SRD)
TREE: 310

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12743

.endblock

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copy: 1 id: 46296-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12744
AUTH: WRIGHT T.P.
CLSS: SRD 1 CNWDI
CORP: SANDIA LABS. (ALBUQUERQUE, NM)
DATE: 7202
DESC: test instruments EM propagation atmospheric chemistry lasers L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Directed Energy Weapons Lasers Applications High-intensity radiation
field generation L1
DESC: SIMULATION (LASER-PLASMA) ; THEORY
DESC: Simulation Facilities Techniques EM propagation atmospheric
chemistry high-altitude phenomenolgy L1
REPN: SC WD 71 0751
SUJO: 2-211-000 ; 3-616-750 ; 4-220-000 ; 4-326-000
TEMP: A0157
TITL: LASER PLASMA SIMULATION OF HIGH-ALTITUDE NUCLEAR EXPLOSIONS (U), 25
P., (SRD/CNWDI)

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12744

.endblock

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copy: 1 id: 46297-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12757
AUTH: STRAKER E.A. ; MCGREGOR B.J.
CLSS: U
CCDE: ANISN
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)
DATE: 7112
DESC: EXPERIMENTAL TABULAR
DESC: Radiation Transport gamma L1 IN LIQUID NITROGEN
DESC: Cross Sections neutron L1 GAMMA PRODUCTION
REPN: ORNL TM 3635
SUJO: 9-620-000 ; 9-820-000
TITL: CALCULATION OF GAMMA-RAY PRODUCTION AND TRANSPORT IN LIQUID NITROGEN
(U), 23 P., (U)
TREE: 960

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12757

.endblock

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copy: 1 id: 46305-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12769
AUTH: SCHMOKE M.A. ; HANSEN R.G.
CLSS: U
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7111
DESC: SIMULATION (ISOTOPIC) ; EXPERIMENTAL
DESC: Simulation Facilities Techniques nuclear radiation fallout
simulation L5
DESC: test instruments nuclear radiation gamma L1 RADIAC
REPN: BRL R 1560
SUJO: 4-242-000 ; 4-341-000
TITL: EVALUATION OF INTERNAL RADIAC DETECTOR POSITIONS FOR M41 TANK M578
RECOVERY VEHICLE M125A SELF-PROPELLED MORTAR (U), 46 P., (U)

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12769

.endblock

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copy: 1 id: 46311-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12776
AUTH: SCHMOKE M. ; REXROAD R.E.

CLSS: U
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7111
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation gamma L1
DESC: Cross Sections gamma L1 INSIDE COMBAT VEHICLES CARGO CARRIERS
REPN: BRL R 1559
SUJO: 4-341-000 ; 9-830-000
TITL: EVALUATION OF INTERNAL RADIAC DETECTOR POSITIONS FOR M548 CARGO
CARRIER XM551 ARMORED RECONNAISSANCE VEHICLE M728 COMBAT ENGINEER
VEHICLE (U), 52 P., (U)

TREE: 651

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12776

.endblock

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copy: 1 id: 46315-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12778

ADNO: 729426

AUTH: SWATOSH J.J. ; WIEDERMANN A.H.

CLSS: U

CCDE: ZZ (DUST, AIR TEMPERATURE)

CONN: DACA 73 67 C 0018

CORP: ARMY CONSTRUCTION ENGINEERING RESEARCH LAB. (CHAMPAIGN, ILL.)

DATE: 7102

DESC: Nuclear Weapon Effects meteorological Atmospheric Heating L1

DESC: MULTIPLE BURST ; THEORY CODE

DESC: Nuclear Weapon Environment dust moisture injection atmosphere L1

DESC: Nuclear Weapon Environment Ground Shock throwout projectiles L5

DESC: Nuclear Weapon Environment Airblast dynamic pressure AFTERWINDS.L5

DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions L1 FROM THERMAL RADIATION

DESC: Nuclear Weapon Environment Airblast height-of-burst HOB L5

REPN: TECH. MANUSCRIPT S-2 (REV.)

TSHO: LOW-ALT

SUJO: 2-222-400 ; 2-612-000 ; 2-613-100 ; 2-626-000 ; 2-629-000 ;

2-730-000

TITL: NUCLEAR WEAPONS EFFECTS. DUST AND AIR TEMPERATURE ENVIRONMENT (U),
272 P., (U)

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12778

.endblock

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copy: 1 id: 46316-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12830

ADNO: 732360

AUTH: FERRITTO J.M.
CLSS: U
CORP: NAVAL CIVIL ENGINEERING LAB. (PORT HUENEME, CA.)
DATE: 7109
DESC: SIMULATION (COMPUTER) (BLAST RADIATION) ; THEORY
DESC: Civil Defense shelters L1 ENTRANCE SYSTEMS
REPN: TR R 737
SUJO: 3-474-000
TITL: COST-OPTIMIZATION STUDY OF SHELTER ENTRANCE STRUCTURES TO RESIST
BLAST OVERPRESSURE AND RADIATION EFFECTS (U), 33 P., (U)

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12830

.endblock

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copy: 1 id: 46370-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12845

AUTH: AZAREWICZ J.L. ; BERGER R.A. ; CESENA R.A. ; COLWELL J.F. ; DENSON
R. ; FLANAGAN T.M. ; KALMA A.H. ; LEADON R.E. ; MALLON C.E. ; NABER
J.A. ; WROBEL T.F.

CLSS: U

CONN: DAAG39 68 C 0060

CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)

DATE: 7110

DESC: THEORY EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TREE

REPN: HDL TR 060 3 ; GULF RT A10870

SUJO: 3-221-000

TITL: RESEARCH ON THE PHYSICS OF TRANSIENT RADIATION EFFECTS (U), 168 P.,
(U)

TREE: 200

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12845

.endblock

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copy: 1 id: 46384-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12871

AUTH: HENDRICK R.W. JR.

CLSS: SRD 1

CONN: DAHC 60 69 C 0019

CORP: GENERAL ELECTRIC TEMPO (SANTA BARBARA, CA.)

DATE: 7105

DESC: SIMULATION ; THEORY

DESC: Nuclear RDT&E Research Program Descriptions EM propagation
atmospheric chemistry L1 GAMMA RADIATION

DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical

devices sensors IR detectors L1 OPTICAL SENSORS

REPN: 71 TMP 28
SUJO: 3-133-000 ; 4-120-000
TEMP: 81088
TITL: SENSOR NOISE MODEL (U), 29 P., (SRD)

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12871

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copy: 1 id: 46401-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12873
ADNO: 887484
AUTH: BROCK T.K.
CLSS: U
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, NM)
DATE: 7108
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: FLUENCE DOSE DOSE-RATE ; CHARTS
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1

REPN: AFWL TR 71 84
SUJO: 1-110-000 ; 1-710-000
TITL: QUICK-LOOK RADIATION CHARTS (U), 30 P., (U)
TREE: 910 ; 920

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12873

.endblock

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copy: 1 id: 46403-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12887-441
AUTH: SMITH S.P.D. ; MARTIN D.L. JR.
CLSS: C 3
CORP: ARMY MISSILE COMMAND (REDSTONE ARSENAL, ALA.)
DATE: 7110
DESC: SIMULATION (E BEAM/REACTOR) ; EXPERIMENTAL
SYMJ: 1971 JANNAF COMBINED PROPULSION MEETING, VOL. 1
TITL: EFFECT OF NUCLEAR RADIATION ON THE MECHANICAL RESPONSE OF PROPULSION
COMPONENTS (U), 13 P., (C)

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12887-441

.endblock

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copy: 1 id: 46413-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12993
ADNO: 731723
AUTH: WELLS M.B. ; BLATTNER W.G. ; COLLINS D.G.
CLSS: U
CCDE: FLARE
CONN: N60921 71 C 0053
CORP: RADIATION RESEARCH ASSOCIATES (FORT WORTH, TEX.)
DATE: 7108
DESC: Nuclear Weapon Environment Visible Output angular distribution L1
DESC: SIMULATION (COMPUTER) ; TABULAR THEORY CODE
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1 1
TO 80 KM ALTITUDE TRANSMISSION
REPN: RRA T7108
SUJO: 1-430-000 ; 5-200-000
TITL: MONTE CARLO CALCULATIONS OF THE SCATTERING OF 450, 550, AND 650 NM
WAVELENGTH LIGHT IN MODEL ATMOSPHERES FOR POINT ISOTOPIC SOURCES
(U), 140 P., (U)

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12993

.endblock

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copy: 1 id: 46520-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12995
AUTH: VOGEL E.M. ; REXROAD R.E.
CLSS: U
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7112
DESC: test instruments nuclear radiation gamma L1
REPN: BRL R 1566
SUJO: 4-341-000
TITL: FALLOUT GAMMA-RADIATION INSTRUMENTATION SYSTEM, FINAL REPORT (U), 30
P., (U)
TREE: 651

.block

12995

.endblock

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copy: 1 id: 46521-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 12996
AUTH: P.J. MORRIS
CLSS: U
CONN: DASA 01 71 C 0019
CORP: URS RESEARCH CO. (SAN MATEO, CA.)
DATE: 7104

DESC: Nuclear Weapon Effects materials coatings laminates L1
DESC: Nuclear Weapon Effects materials metals alloys L1
DESC: THERMAL/BLAST EFFECTS/SYNERGETIC EFFECT ; THEORY
REPN: URS 7029 6
SUJO: 3-243-000 ; 3-245-000
TITL: THERMAL RADIATION DEGRADATION OF STRUCTURAL RESISTANCE TO AIR BLAST
(U), 61 P., (U)

.block
12996
.endblock

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copy: 1 id: 46522-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 13003
ADNO: 734294
AUTH: MEISINGER R.J. JR.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7105
DESC: SIMULATION (HE) ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock craters excavations L1
REPN: TR 37
TSHO: MULTIPLE BURST ; UNDERGROUND
SUJO: 2-625-000
TITL: SUMMARY OF TIME-DELAYED ROW-CHARGE CRATERING EXPERIMENTS, SITE 300,
1970 (U), 19 P., (U)

.block
13003
.endblock

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copy: 1 id: 46530-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 13015
AUTH: HUI S. ; SPIELBERG D. ; STEINBERG H. ; TROUBETZKOY E.S. ; KLASO M.
CLSS: U
CCDE: SAMCEP
CONN: DAAS 05 70 C 0295
CORP: MATHEMATICAL APPLICATIONS GROUP, INC. ("HITE PLAINS, NY)
DATE: 7201
DESC: CODE THEORY
DESC: Radiation Transport neutron L1
REPN: MR 7020 (P 7007) ; BRL CR 62
SUJO: 9-650-000
TITL: SAMCEP. AN APPLICATION OF CORRELATED MONTE CARLO TO THE SIMULTANEOUS
SOLUTION OF MULTIPLE, PERTURBED, TIME-DEPENDENT NEUTRON TRANSPORT
PROBLEMS IN COMPLEX THREE-DIEMNSIONAL GEOMETRY, FINAL REPORT (U),
159 P., (U)

TREE: 970

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13015

.endblock

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copy: 1 id: 46538-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13077

ADNO: 889475

AUTH: PATTMAN J.D.R.

CLSS: U

CORP: DEFENCE RESEARCH ESTABLISHMENT OTTAWA (OTTAWA, ONTARIO,CANADA)

DATE: 7108

DESC: SIMULATION (HE)

DESC: Simulation Facilities Techniques blast shock high explosives L1

LA: CANADA

REPN: DREO R 642

SHOT: DIAL PACK

TSHO: SURFACE

SUJO: 4-216-300

TITL: OPERATION DIAL PACK 1970 CANADIAN PROJECT A7 THERMAL RADIATION
MEASUREMENTS (U), 24 P., (U)

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13077

.endblock

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copy: 1 id: 46592-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13093

ADNO: 518228

AUTH: OVERMYER R.F. ; BRUSH D.S. ; WEIMAN A.L.

CLSS: SRD 1

CONN: DAAG 39 69 C 0021

CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)

DATE: 7105

DESC: Nuclear Weapon Effects materials metals alloys L5 ALUMINUM,
COPPER-NICKEL, A1-GE-IN ALLOY

DESC: X RAYS EFFECTS SIMULATION (FLASH X RAY) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects materials ceramics optical L5 GLASS

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 HARDENED TRANSISTORS

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

REPN: HDL 021 1 ; GULF RT 11038

SHOT: MINUTE STEAK ; MIDI MIST ; DORSAL FIN

SUJO: 3-221-000 ; 3-222-000 ; 3-241-000 ; 3-243-000

TEMP: A0253

TITL: SHOCK EFFECTS IN ELECTRONIC COMPONENTS, FINAL REPORT (U), 192 P.,
(SRD)

TREE: 310 ; 320

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13093

.endblock

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copy: 1 id: 46602-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13100

CLSS: SFRD 3

CORP: NAVAL ORDNANCE LAB. (KIRTLAND AFB, NM.)

DATE: 7109

DESC: Nuclear Weapon Environment Thermal Output rate L1

DESC: Nuclear Weapon Environment Visible Output energy spectrum L1

DESC: EXPERIMENTAL

SHOT: LINGER BOB

TSHO: HI ALT

SUJO: 1-240-000 ; 1-420-000

TEMP: A0363

TITL: THERMAL RADIATION MEASUREMENTS FOR OPERATION LINGER BOB, PRELIMINARY
REPORT (U), 8 P., (SFRD)

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13100

.endblock

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copy: 1 id: 46607-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 13126

ADNO: 518300L

AUTH: HONNOLD V.R. ; BUCK J.S.

CLSS: SRD 1

CONN: F 04701 71 C 0153

CORP: TRW SYSTEMS GROUP (REDONDO BEACH, CA.)

DATE: 7111

DESC: SIMULATION (E BEAM) ; EXPERIMENTAL

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1 OPTICAL SYSTEMS

DESC: Simulation Facilities Techniques TREE L5

REPN: TRW 18770 6004 R1 00 ; SAMSO TR 71 246

SUJO: 4-170-000 ; 4-272-000

TEMP: A0426

TITL: TRANSIENT RADIATION EFFECTS IN TRANSPARENT INFRARED MATERIALS (U),
29 P., (SRD)

TREE: 361

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13126

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copy: 1 id: 46643-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 13132-015
AUTH: ALLISON J.W.
CLSS: C
DATE: 7103
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: test instruments nuclear radiation gamma L1
DESC: test instruments biomedical L1
DESC: test instruments nuclear radiation dosimeters radiacs L1
SUJO: 3-312-220 ; 4-341-000 ; 4-346-000 ; 4-351-000
SYMJ: BOUND IN MINUTES OF FIFTH MEETING OF PANEL N-5 (NUCLEAR EFFECTS ON
PERSONNEL)
TITL: RESEARCH AND DEVELOPMENT PROBLEMS IN MILITARY RADIATION MEASUREMENT
AND RADIAC INSTRUMENTATION (U), 7 P., (C)

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13132-015

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copy: 1 id: 46658-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13132-022
ABS: This paper deals with an analysis of the uncertainties in using
tactical dosimeters to estimate the combat effectiveness of a
military unit which is exposed to the initial pulse of nuclear
radiation from a nuclear explosion.
AUTH: ALLISON J.W.
CLSS: C
DATE: 7103
DESC: Nuclear Warfare Theater operations scenarios battlefield environment
L1
DESC: test instruments nuclear radiation dosimeters radiacs L5
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
SUJO: 3-312-100 ; 3-312-200 ; 3-411-200 ; 4-346-000
SYMJ: BOUND IN MINUTES OF FIFTH MEETING OF PANEL N-5 (NUCLEAR EFFECTS ON
PERSONNEL)
TITL: ANALYSIS OF UNCERTAINTIES IN TACTICAL DOSIMETRY (U), 16 P., (C)
TNFF: 4850

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13132-022

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copy: 1 id: 46659-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13132-071

AUTH: GRANT G.A.
CLSS: C
DATE: 7103
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1
BIOLOGICAL EFFECTS SURVEY OF US-UK-RUSSIANLIT.
EMPF: 500
SUJO: 2-510-000
SYMJ: BOUND IN MINUTES OF FIFTH MEETING OF PANEL N-5 (NUCLEAR EFFECTS ON
PERSONNEL)
TITL: REPORT TO PANEL S1 ON ELECTROMAGNETIC RADIATION HAZARDS (U), 6 P.,
(C)

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13132-071

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copy: 1 id: 46660-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13132-080
AUTH: SANDEMAN T.F.
CLSS: C
DATE: 7103
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
SUJO: 3-312-100
SYMJ: BOUND IN MINUTES OF FIFTH MEETING OF PANEL N-5 (NUCLEAR EFFECTS ON
PERSONNEL)
TITL: ACUTE RADIATION SYNDROME (U), 2 P., (C)

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13132-080

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copy: 1 id: 46662-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13147
ADNO: 518924
AUTH: PASSENHEIM B.C. ; WROBEL T.F. ; LEADON R.E.
CLSS: SFRD 1
CONN: N 60921 71 C 0025
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7110
DESC: SIMULATION (FLASH X-RAY) SIMULATION (ELECTRON BEAM) SIMULATION
(LASER ; EXPERIMENTAL)
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1
TREE IEMP
EMPF: 393
REPN: GULF RT A11060
SUJO: 3-225-000
TEMP: A0468
TITL: RADIATION EFFECTS ON MAGNETIC DEVICES, FINAL REPORT (U), 104 P.,

(SFRD)

TREE: 343

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13147

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copy: 1 id: 46675-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13151

ADNO: 888249L

AUTH: HALPIN J.J.

CLSS: U

CORP: NAVAL RESEARCH LAB. (WASHINGTON, DC)

DATE: 7106

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1 TREE LASER EFFECTS

REPN: NRL MR 2337

SUJO: 3-133-000

TITL: PROGRESS REPORT ON THE TRANSIENT RADIATION EFFECTS ON LASER
MATERIALS FY 71 (U), 32 P., (U)

TREE: 366

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13151

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copy: 1 id: 46677-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13165

AUTH: MCGREGOR B.J. ; STRAKER E.A.

CLSS: U

CCDE: MORSE ; ANISN

CONN: W 7405 ENG 26

CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)

DATE: 7202

DESC: SILICON KERMA AIR KERMA TISSUE DOSE ; THEORY TABULAR

DESC: Radiation Transport gamma L1

DESC: Radiation Transport neutron L1

REPN: ORNL 4741

SUJO: 9-620-000 ; 9-650-000

TITL: STUDY OF THE EFFECT OF SOURCE ASYMMETRY ON TIME-DEPENDENT NEUTRON
AND SECONDARY GAMMA-RAY TRANSPORT IN AIR (U), 131 P., (U)

TREE: 960 ; 970

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copy: 1 id: 46690-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13180

ABS: Simplified and detailed methods are presented for predicting exposure rates due to fallout from underground nuclear detonations. The simplified method, which is performed by hand calculations, predicts generalized exposure rate contours in the upwind-crosswind and downwind areas. The detailed method, which can be accomplished by either a hand calculational procedure or a nomogram procedure, predicts generalized exposure rate contours in the upwind-crosswind area and detailed exposure rate contours in the downwind fallout area. All procedures are based on a graphic-numerical scaling model. The quantity predicted by these procedures is the (H+1) hour exposure rate, in R/hr. Time dependent exposure rates, total radiation doses, and the Army-defined hazard zones (zone I, Ia, and II) boundaries may also be predicted if desired.

ABS: The scaling model prediction methods offer the great advantage of predicting exposure rates from the boundary of continuous material ejected by the explosion out to exposure rates on the order of 0.01 R/hr. The methods are valid for detonations at a wide range of depths of burst. Unusual atmospheric or emplacement conditions may reduce the reliability of the results, but approximate techniques are suggested for performing predictions under certain unusual conditions.

ADNO: 736852

AUTH: SNELL C.M. ; BURTON D.E. ; O'CONNOR J.M.

CLASS: U

CORP: ARMY ENGINEER EXPLOSIVE ESCAVATION RESEARCH OFFICE (LIVERMORE, CA.)

DATE: 7109

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear radiation transport L5

DESC: HAND CALCULATION ; SUMMARY

DESC: Nuclear Warfare Theater operations scenarios battlefield environment
L1

DESC: Nuclear Weapon Environment fallout arrival time L1

DESC: Nuclear Weapon Environment fallout intensity contours patterns L1

DESC: Nuclear Weapon Environment Fallout Radioproperties L1

DESC: Nuclear Weapon Phenomenology cloud Motion L1

REPN: EERO TR 22

TSHO: UG-VENTED

SUJO: 2-223-000 ; 2-224-000 ; 2-225-100 ; 2-225-300 ; 3-411-200 ;
4-140-000

TITL: FALLOUT PREDICTION PROCEDURE FOR SUBSURFACE ADMS (U), 109 P., (U)

TNFF: 4860

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copy: 1 id: 46702-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13210
AUTH: HAI F. ; BERNSTEIN M.J.
CLSS: U
CONN: F 04701 71 C 0172
CORP: AEROSPACE CORP. (EL SEGUNDO, CA.)
DATE: 7203
DESC: EXPERIMENTAL THEORY
DESC: Cross Sections x-ray L1 GAMMA, E REACTIONS
DESC: test instruments nuclear radiation beta electron beams L1
REPN: TR 0172 (2220 60) 2 ; SAMSO TR 72 26
SUJO: 4-344-000 ; 9-840-000
TITL: PHOTOEMISSION FROM POLYMERS (U), 24 P., (U)
TREE: 654

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13210

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copy: 1 id: 46722-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13216
AUTH: MANGAN D.L. ; SCRIVNER G.J.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM.)
DATE: 7202
DESC: THEORY
DESC: Nuclear Weapon Effects structures aboveground models cylinders cones
rings L1 IEMP

EMPF: 391

REPN: SC RR 71 0870

SUJO: 3-259-400

TITL: FIELD GENERATION WITHIN A LOSSY DIELECTRIC CYLINDER EXCITED BY A
RADIATION PULSE (U), 26 P., (U)

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13216

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copy: 1 id: 46727-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13223
ADNO: 879721L
AUTH: RINEHART R.E.
CLSS: U
CONN: F 29601 69 C 0076
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7101
DESC: test instruments test hardware pressure stress L1
DESC: EXPERIMENTAL
REPN: AFWL TR 70 98 ; GA 10193

SUJO: 4-311-000
TITL: MEASUREMENT OF DEBRIS PRESSURES IN HYPERVELOCITY IMPACT EXPERIMENTS
(U), 64 P., (U)

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13223
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copy: 1 id: 46734-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13250
AUTH: AUBUCHON K.G.
CLSS: U
CONN: N 00014 71 C 0079
CORP: HUGHES AIRCRAFT CO. (MALIBU, CA.)
DATE: 7203
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TREE MOS DEVICES
DESC: SIMULATION (E-BEAM) ; EXPERIMENTAL TABULAR
SUJO: 3-221-000
TITL: RADIATION-HARDENED MOSFETS (U), 70 P., (U)
TREE: 325

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13250
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copy: 1 id: 46754-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 13257
AUTH: STRAKER E.A.
CLSS: U
CCDE: ANISM ; DOT ; OGRE ; ACTIFK
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)
DATE: 7203
DESC: Radiation Transport neutron L1
DESC: Radiation Transport gamma L1
DESC: AIR AND AIR-GROUND TRANSPORT MEDIUM ; THEORY
DESC: Nuclear Weapon Environment Prompt Neutron angular distribution L5
DESC: Nuclear Weapon Environment Initial Gamma angular distribution L5
REPN: ORNL TM 3754
SUJO: 1-130-000 ; 1-730-000 ; 9-620-000 ; 9-650-000
TITL: EFFECT OF THE GROUND ON THE STEADY-STATE AND TIME-DEPENDENT
TRANSPORT OF NEUTRONS AND SECONDARY GAMMA RAYS IN THE ATMOSPHERE
(U), 25 P., (U)

TREE: 960 ; 970

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13257
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copy: 1 id: 46760-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 13258
AUTH: BURGART C.E.
CLSS: U
CCDE: MORSE ; DOT ; SPACETRAN
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)
DATE: 7203
DESC: BORATED POLYETHYLENE SHIELD TRANSPORT CODE COMPARATIVE ANALYSIS ;
SUMMARY
DESC: Radiation Transport neutron L1
DESC: Radiation Transport gamma L1
REPN: ORNL TM 3517
SUJO: 9-620-000 ; 9-650-000
TITL: NEUTRON AND GAMMA-RAY FLUENCE TRANSMITTED THROUGH A SLAB OF BORATED
POLYETHYLENE A MILESTONE CALCULATION (U), 27 P., (U)
TREE: 411 ; 412

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13258
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copy: 1 id: 46761-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 13300
ADNO: 891571L
AUTH: EGAN J.J.
CLSS: U
CONN: F 04701 71 C 0172
CORP: AEROSPACE CORP. (EL SEGUNDO, CA.)
DATE: 7111
DESC: Nuclear Weapon Effects electronic piecparts integrated circuits L1
TREE DIELECTRIC ISOLATION
REPN: TR 0172 (2441 02) 3 ; SAMSO TR 72 19
SUJO: 3-222-000
TITL: ON THE USE OF DIELECTRIC ISOLATION TO ACHIEVE RADIATION HARDENED
INTEGRATED CIRCUITS (U), 45 P., (U)
TREE: 420 ; 320

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13300
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copy: 1 id: 46789-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 13309
AUTH: HOFFMAN T.J. ; ROBINSON J.C. ; STEVENS P.N.

CLSS: U
CCDE: ANISN ; DOT ; MORSE
CONN: DAAD 05 71 C 0150
CORP: UNIVERSITY OF TENNESSEE (KNOXVILLE, TENN.)
DATE: 7202
DESC: THEORY
DESC: Radiation Transport neutron L1
REPN: NEUT 0150 2 BRL CR 63
SUJO: 9-650-000
TITL: ADJOINT DIFFERENCE METHOD AND ITS APPLICATION TO DEEP PENETRATION
RADIATION TRANSPORT, FINAL REPORT (U), 77 P., (U)
TREE: 970

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13309

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copy: 1 id: 46793-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13311
AUTH: MUIR D.W. ; FULLER H.J.
CLSS: SRD CNWDI
CCDE: DTF
CONN: W 7405 ENG 36
CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, CA.)
DATE: 7212
DESC: Radiation Transport neutron L1 CODE
DESC: Nuclear Weapon Effects ordnance bombs mines warheads L1 FISSION
DEVICES

DESC: THEORY
REPN: LA 4835
SUJO: 3-161-000 ; 9-650-000
TEMP: A0577
TITL: FISSION HEATING OF SHIELDED FISSION WARHEADS (U), 15 P., (SRD CNWDI)

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13311

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copy: 1 id: 46794-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13338
ADNO: 519423L
AUTH: NABER J.A. ; CESENA R.A. ; DENSON R. ; KALMA A.H.
CLSS: S 3
CCDE: FFHUFF
CONN: F 04701 71 C 0334
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7202
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1 IR

DETECTORS ELECTRONIC ELEMENTS EXPERIMENTAL LAYOUT ONLY NO DATA

DESC: TREE THERMOMECHANICAL EFFECTS SIMULATION (COMPUTER) ; EXPERIMENTAL
REPN: SAMSO TR 71 343 VOL. 2 ; GULF RT A11065 VOL. 2
SUJO: 3-223-000
TEMP: A0649
TITL: NUCLEAR VULNERABILITY ASSESSMENT OF SENSOR COMPONENTS, VOL. 2,
ACTIVE COMPONENTS (U), 34 P., (S)
TREE: 361

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13338
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copy: 1 id: 46809-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 13339
ADNO: 519429
AUTH: FLANAGAN T.M. ; WRAY J.H. ; WRENCH E.H.
CLSS: SRD 1
CONN: F 04701 71 C 0334
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7202

DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1 LWIR SENSORS

DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1 IRTRAN
REFRACTIVE ELEMENTS NUCLEAR RADIATION NO DATA EXPERIMENTAL LAYOUT
ONLY

DESC: SIMULATION (REACTOR) SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
REPN: SAMSO TR 71 343 VOL. 1 ; GULF RT A11065 VOL. 1
SUJO: 3-133-000 ; 3-223-000
TEMP: A0652
TITL: NUCLEAR VULNERABILITY ASSESSMENT OF SENSOR COMPONENTS, VOL. 1,
PASSIVE COMPONENTS (U), 54 P., (SRD)
TREE: 361

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13339
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copy: 1 id: 46810-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13353
AUTH: STEHLIN R.A.
CLSS: U
CONN: F 30602 71 C 0066
CORP: TEXAS INSTRUMENTS, INC. (DALLAS, TEX)
DATE: 7202

DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
TREE NEUTRONS

DESC: THEORY

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
TREE NEUTRONS
REPN: 03 71 100 ; RADC TR 72 18
SUJO: 3-213-000 ; 3-222-000
TITL: HARDENED AMPLIFIER FOR RADIATION TRANSIENTS (HART) PHASE II (U) 185
P., (U)

TREE: 369

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13353

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copy: 1 id: 46817-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13362

ADNO: 734368

AUTH: SCHULTZ R.K.

CLSS: U

CONN: DAHC 20 70 C 0215

CORP: UNIVERSITY OF CALIFORNIA, DEPT. OF SOILS AND PLANT NUTRITION
(BERKELEY, CA.)

DATE: 7109

DESC: Nuclear Test Simulation Field Programs experiment design plant life
L1

DESC: Nuclear Weapon Effects on plants ionizing radiation chronic external
L1 PEAS LETTUCE WHEAT CORN

DESC: SIMULATION (YTTRUIM-90) ; EXPERIMENTAL

DESC: Simulation Facilities Techniques nuclear radiation fallout
simulation L1

SUJO: 3-332-210 ; 4-242-000 ; 4-828-000

TITL: EFFECTS OF BETA RADIATION ON PLANT GROWTH (U), 114 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13410

ABS: This series provides a sourcebook for the most accurate and detailed data currently available for the nuclear free-field environment requirements for ABM materials-hardening research studies. The free-field environment definition problem has been separated into two areas : weapon output and atmospheric transport (gas dynamics or radiation transport). An effort has been made to present the atmospheric transport calculations in sufficient generality that they can be readily coupled to specific weapon outputs. Recommendations for future work designed to augment the data where gaps exist and large inaccuracies prevail are given.

ADNO: 520852L

AUTH: TEMPERLEY A.A. ; WRIGHT W.P. ; FUTTERER A.T.
CLSS: SRD 1
CCDE: HENRE ; LONGWALK
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7204
DESC: Nuclear Weapon Environment Summaries L1
DESC: HANDBOOK
REPN: BRL R 1494 V 1
SUJO: 1-000-000
TEMP: A1031
TITL: SOURCEBOOK FOR FREE-FIELD NUCLEAR-ENVIRONMENT DATA, VOL.
1 INTRODUCTION AND PHENOMENOLOGY (U), 71 P., (SRD)
TNFF: 4825
TREE: 900

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13410

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copy: 1 id: 46872-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13416
ADNO: 893730L
AUTH: JACOBSON J.R. ; FULLER P.E.
CLSS: U
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7203
DESC: test instruments nuclear radiation neutron L1
DESC: DESCRIPTION
REPN: BRL R 1572
SUJO: 4-342-000
TITL: STANDARDIZED AUTORADIOGRAPHIC NEUTRON DETECTION SYSTEM (U), 42 P.,
(U)
TREE: 652

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13423
ADNO: 519108
AUTH: MCCORMAC B.M. ; HOKE F.M. ; JOSEPHSON V. ; BERG R.A.
CLSS: S 3
CONN: DAHC 60 72 C 0010
CORP: LOCKHEED MISSILES AND SPACE CO. ; ADVANCED BALLISTIC MISSILE DEFENSE
AGENCY ; AEROSPACE CORP.
DATE: 7109
DESC: SUMMARY

DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1 GAMMAS NEUTRONS X-RAYS BETA RAYS EMP
DEBRIS
REPN: LMSC B290166
SUJO: 3-133-000
TEMP: A0964
TITL: NUCLEAR RADIATION EFFECTS ON OPTICAL SENSOR SYSTEMS (U), 48 P., (S)
TREE: 361

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13423

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copy: 1 id: 46882-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13433
AUTH: LACETERA J.E. ; BUHL A.R.
CLSS: U
CCDE: ANISN
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7204
DESC: test instruments nuclear radiation gamma L1
DESC: TABULAR
REPN: BRL R 1584
SUJO: 4-341-000
TITL: GAMMA DIFFERENTIAL ENERGY FLUX AND PULSE HEIGHT SPECTRA ABOVE A
SUPER 235 U FISSION PRODUCT FALLOUT FIELD (U), 165 P., (U)

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copy: 1 id: 46890-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13685
ADNO: 741180
AUTH: CAMPBELL J.E. ; SANDMEIER H.A.
CLSS: U
CCDE: CDR
CORP: NAVAL WEAPONS EVALUATION FACILITY (ALBUQUERQUE, NM)
DATE: 7204
DESC: Radiation Transport neutron L1
DESC: TABULAR CODE
DESC: Radiation Transport gamma L1 AIR
REPN: NWEF R 1090
SUJO: 9-620-000 ; 9-650-000
TITL: AIR TRANSPORT CALCULATIONS USING THE LASL-NWEF AIR FLUX TAPE AND
NWEF COMPUTER PROGRAM -CDR (U), 94 P., (U)

TREE: 960 ; 970

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13685
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copy: 1 id: 47145-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 13695
AUTH: ERICKSON L.M.
CLSS: SRD 1
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7101
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L5 P 17
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 IEMP
DESC: EXPERIMENTAL
EMPF: 392
REPN: UCRL 72892 (PREPRINT)
SHOT: MINUTE STEAK ; DIESEL TRAIN ; MINT LEAF ; HUDSON MOON
TSHO: UG (CONTAINED)
SUJO: 1-620-000 ; 3-231-000
SYST: SPARTAN ; MK 3 RV ; MK 12 RV
TEMP: A1037
TITL: CABLE SENSITIVITY TO RADIATION (U), 35 P., (SRD)

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13695
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copy: 1 id: 47161-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13719
ADNO: 739495
AUTH: SCHULZ M.
CLSS: U
CONN: F 04701 71 C 0172
CORP: AEROSPACE CORP. (EL SEGUNDO, CA.)
DATE: 7203
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
DESC: THEORY
REPN: TR 0172 (2260 20) 16 ; SAMSO TR 72 58
TSHO: HI-ALT
SUJO: 2-217-000
TITL: TRANSIENT STRUCTURE OF AN ARTIFICIAL RADIATION BELT (U), 15 P., (U)

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copy: 1 id: 47180-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13726
AUTH: BANKS N.E. ; COLEMAN W.A.
CLSS: U
CCDE: OGRE
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7204
DESC: THEORY TABULAR
DESC: Radiation Transport x-ray L1
DESC: Radiation Transport gamma L1
REPN: BRL R 1577
SUJO: 9-620-000 ; 9-640-000
TITL: TRANSPORT OF PHOTONS THROUGH AIR USING SOURCE-ENERGY BAND STRUCTURE
FROM 300 KEV TO 2 KEV (U), 386 P., (U)
TREE: 960 ; 980
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copy: 1 id: 47185-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13726B
AUTH: BANKS N.E. ; COLEMAN W.A.
CLSS: U
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD)
DATE: 7204
DESC: Radiation Transport x-ray L1
DESC: TABULAR
REPN: BRL R 1577
SUJO: 9-640-000
TITL: TRANSPORT OF PHOTONS THROUGH AIR USING SOURCE-ENERGY BAND STRUCTURE
FROM 300 KEV TO 2 KEV, APPENDIX B-DATA FOR SOURCE ENERGIES 190-160,
160-140, AND 140-120KEV (U), 352 P., (U)
TREE: 980
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copy: 1 id: 47186-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13726C
AUTH: BANKS N.E. ; COLEMAN W.A.
CLSS: U
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7204
DESC: Radiation Transport x-ray L1
DESC: TABULAR
REPN: BRL R 1577
SUJO: 9-640-000

TITL: TRANSPORT OF PHOTONS THROUGH AIR USING SOURCE-ENERGY BAND STRUCTURE
FROM 300 KEV TO 2 KEV, APPENDIX C DATA FOR SOURCE ENERGIES 120-105,
105-90, AND 90-75 KEV(U), 352 P., (U)

TREE: 980

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copy: 1 id: 47187-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13726D

AUTH: BANKS N.E. ; COLEMAN W.A.

CLSS: U

CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)

DATE: 7204

DESC: Radiation Transport x-ray L1

DESC: TABULAR

REPN: BRL R 1577

SUJO: 9-640-000

TITL: TRANSPORT OF PHOTONS THROUGH AIR USING SOURCE-ENERGY BAND STRUCTURE
FROM 300 KEV TO 2 KEV, APPENDIX D-DATA FOR SOURCE ENERGIES 75-65,
65-55, AND 55-45 KEV (U), 352 P., (U)

TREE: 980

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copy: 1 id: 47188-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 13726E

AUTH: BANKS N.E. ; COLEMAN W.A.

CLSS: U

CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)

DATE: 7204

DESC: TABULAR

DESC: Radiation Transport x-ray L1

REPN: BRL R 1577

SUJO: 9-640-000

TITL: TRANSPORT OF PHOTONS THROUGH AIR USING SOURCE-ENERGY BAND STRUCTURE
FROM 300 KEV TO 2 KEV, APPENDIX E-DATA FOR SOURCE ENERGIES 45-35,
35-30, AND 30-25 KEV (U), 352 P., (U)

TREE: 980

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copy: 1 id: 47189-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 13726F
AUTH: BANKS N.E. ; COLEMAN W.A.
CLSS: U
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7204
DESC: TABULAR
DESC: Radiation Transport x-ray L1
REPN: BRL R 1577
SUJO: 9-640-000
TITL: TRANSPORT OF PHOTONS THROUGH AIR USING SOURCE-ENERGY BAND STRUCTURE
FROM 300 KEV TO 2 KEV, APPENDIX F-DATA FOR SOURCE ENERGIES 25-20,
20-15, 15-10, 10-8, 8-6, 6-4, AND 4-2 KEV (U), 228 P., (U)
TREE: 980

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copy: 1 id: 47190-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent
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INUM: 13733
AUTH: BANKS N.E.
CLSS: U
CCDE: SAMCEP
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7204
DESC: Composition Chemistry Atmosphere Reaction Rates L1
DESC: Radiation Transport neutron L1 AIR
DESC: Cross Sections neutron L1
DESC: TABULAR
REPN: BRL R 1583
SUJO: 5-400-000 ; 9-650-000 ; 9-820-000
TITL: NEUTRON CROSS SECTION SENSITIVITY STUDIES FOR OXYGEN, NITROGEN, AND
DRY AIR (U), 60 P., (U)
TREE: 412 ; 970

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copy: 1 id: 47194-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13747
AUTH: KEITH J.R. ; WELLS P.B.
CLSS: U
CCDE: TRAX ; TAX ; SPUTTER ; FLARE
CONN: DASA 01 69 C 0082

CORP: KAMAN SCIENCES CORP. (COLORADO SPRINGS, COLO.)
DATE: 7206
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
NEVADA PACIFIC ATMOSPHERES OTHERS
DESC: THEORY TABULAR
DESC: Environmental Conditions at Nuclear Weapon Test Site weather L1
ATMOSPHERIC TRANSMISSION OF THERMAL RADIATION
REPN: K 72 419 (R)
TSHO: LOW-ALT
SUJO: 4-841-000 ; 5-200-000
TITL: ATMOSPHERIC TRANSMISSION OF NUCLEAR WEAPON THERMAL RADIATION (U), 70
P., (U)

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copy: 1 id: 47201-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13749
AUTH: TRUBEY D.K. ; COMOLANDER H.E.
CLSS: U
CCDE: ENDF/B ; SORS ; TART ; TORTE ; MAZE ; ANISN ; DOT ; MORSE ; SAMCEP ;
MCP ; MCNA ; DTFIV ; TWOTRAN ; TDA ; TRANZIT ; ANDY ; ETOG ;
SUPERTOG ; GAMLEGX ; GAMPRO ; MAGI-SGD ; NUDATA ; BREN ; CDR ; SMAUG
; ATR

CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)
DATE: 7111
DESC: Radiation Transport neutron L1
DESC: NITROGEN OXYGEN AIR ; THEORY TABULAR SURVEY
DESC: Cross Sections neutron L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
ENHANCEMENT OF INITIAL RADIATION
DESC: Radiation Transport gamma L1
DESC: Cross Sections gamma L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
REPN: ORNL RSIC 33 ; CONF 711125
SUJO: 1-110-000 ; 1-710-000 ; 2-223-200 ; 9-620-000 ; 9-650-000 ;
9-820-000 ; 9-830-000
TITL: REVIEW OF CALCULATIONS OF RADIATION TRANSPORT IN AIR -THEORY,
TECHNIQUES, AND COMPUTER CODES(PROCEEDINGS OF A SEMINAR, NOV. 15-17,
1971) (U), 503 P., (U)

TREE: 960 ; 970

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copy: 1 id: 47203-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 13779
AUTH: SIVO L.L.
CLSS: U
CONN: N 00014 72 C 0026
CORP: BOEING CO., RADIATION EFFECTS LAB.(SEATTLE, WASH.)
DATE: 7205
DESC: GAMMA AND PROTON RADIATION TREE ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CAPACITORS
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS
SUJO: 3-221-000 ; 3-229-000
TITL: TRANSISTOR NONLINEAR DAMAGE (U), 151 P., (U)
TREE: 310 ; 370

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13779

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copy: 1 id: 47227-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13784P.2-1
AUTH: FRETWELL L.J. ; NORTON H.O. ; TOLK N.H.
CLSS: SFRD 1
CCDE: TUZONE ; DAC
DATE: 7112
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence L1 UV
DESC: SIMULATION (COMPUTER) ; THEORY SUMMARY
TSHO: HI-ALT
SOCE: SPARTAN
SUJO: 2-214-000
SYMJ: IN COMPUTATIONAL PHYSICS AND MODELING, ANNUAL REPORT, BALLISTIC
MISSILE DEFENSE ADVANCED DEVELOPMENT PROGRAM
TITL: CONTINUING RESEARCH INTO ION-ION EXCITATION RADIATION AND ITS EFFECT
ON IONOSPHERIC NUCLEAR PHENOMENOLOGY (U), 12 P., (SFRD)

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copy: 1 id: 47232-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 13788
ADNO: 745727
AUTH: DANCER D.M. ; WILSON D.M.
CLSS: U

CCDE: TRIN ; TRUMP
CORP: NAVAL ORDNANCE LAB. (SILVER SPRING MD.)
DATE: 7205
DESC: THERMAL ; THEORY CODE
DESC: Nuclear Weapon Environment Thermal Output rate L5 P.25
DESC: Nuclear Weapon Effects structures aboveground models beams L1
DESC: Nuclear Weapon Effects structures aboveground models cylinders cones
rings L1
REPN: NOLTR 72 117
SUJO: 1-240-000 ; 3-259-400 ; 3-259-500
TITL: TRIN; COMPUTER PROGRAM TO CALCULATE TEMPERATURE DISTRIBUTIONS IN
CIRCULAR AND RECTANGULAR SECTIONS EXPOSED TO THERMAL RADIATION FROM
NUCLEAR WEAPON EXPLOSIONS (U), 67 P., (U)

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copy: 1 id: 47241-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13829
ADNO: 516492
AUTH: LACETERA J. ; BUHL A.R.
CLSS: SRD 1
CCDE: SAM-C ; ANISN
CORP: AIR FORCE, ELECTRONIC SYSTEMS DIV. (L.G. HANSCOM FIELD, BEDFORD,
MASS.)
DATE: 7106
DESC: SURVEY
DESC: Radiation Transport gamma L1 PLANE SOURCE
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
VARIOUS HEIGHTS ABOVE CONTAMINATED SURFACE
DESC: Nuclear RDT&E Research Program Descriptions integrated effects
system studies L1
REPN: ESD TR 71 225
SUJO: 2-223-200 ; 4-160-000 ; 9-620-000
TEMP: 81163
TITL: ABBREVIATED TECHNOLOGY NEEDS (U), 76 P., (SRD)

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copy: 1 id: 47270-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13836
AUTH: THACKER G.H. ; RITLAND H.N.
CLSS: SRD 1
CONN: F 04701 70 C 00164
CORP: BOEING CO., RESEARCH AND ENGINEERING DIV. (SEATTLE, WASH.)

DATE: 7205
DESC: OPTICAL COUNTERMEASURES ; THEORY EXPERIMENTAL TABULAR
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1
DESC: Nuclear Warfare Strategic defense discrimination observables
signatures L1
DESC: Nuclear Weapon Effects Light scattering optical interference from
dust L1
DESC: Nuclear Weapon Effects reentry systems RV L1
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1
REPN: D180 14154 1 ; SAMSO TR 72 12
SUJO: 2-226-000 ; 3-113-000 ; 3-133-000 ; 3-424-900 ; 4-820-600
SYST: MINUTEMAN III ; MARK 12
TEMP: A1723
TITL: AEROSOL SYSTEMS STUDY PROGRAM (U), 199 P., (SRD)

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13836

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copy: 1 id: 47276-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13839
AUTH: LACETERA J. ; BUHL A.R.
CLSS: U
CCDE: ANISN (RADIATION TRANSPORT)
CORP: ARMY BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD)
DATE: 7205
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: THEORY TABULAR
REPN: BRL R 1586
SUJO: 2-223-200
TITL: GAMMA-RAY TRANSPORT IN AIR ABOVE FALLOUT FIELDS OF 24NA, 60CO AND
137 CS (U), 70 P., (U)

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copy: 1 id: 47278-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13840
ADNO: 902430
AUTH: PICKARD S.O.
CLSS: U
CCDE: GEOM ; S3PHOTRAN
CONN: DAAD 05 71 C 0392
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7205

DESC: Radiation Transport gamma L1
DESC: THEORY CODE
DESC: Radiation Transport x-ray L1
REPN: BRL CR 69 ; 3SR 817
SUJO: 9-620-000 ; 9-640-000
TITL: S3 PHOTRAN A GENERAL PURPOSE PHOTON TRANSPORT PROGRAM IN COMPLEX
GEOMETRY (A MODIFIED VERSION OF PHOTRAN); VOL. 1 THEORY AND USERS
MANUAL (U), 142 P., (U)
TREE: 960 ; 980

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copy: 1 id: 47279-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13841
ADNO: 902431
AUTH: PICKARD S.O.
CLSS: U
CCDE: S3PHOTRAN
CONN: DAAD 05 71 C 0392
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7205
DESC: Radiation Transport x-ray L1
DESC: Radiation Transport gamma L1
DESC: CODE
REPN: BRL CR 69
SUJO: 9-620-000 ; 9-640-000
TITL: S3PHOTRAN; A GENERAL PURPOSE PHOTON TRANSPORT PROGRAM IN COMPLEX
GEOMETRY (A MODIFIED VERSION OF PHOTRAN); VOL. 2, A COMPLETE
DESCRIPTION OF ALL SUBROUTINES INCLUDING FLOW DIAGRAMS (U), 374 P.,
(U)

TREE: 960 ; 980

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copy: 1 id: 47280-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13874
ADNO: 519796L
CLSS: SRD
CONN: NAS 8 26016
CORP: MCDONNELL DOUGLAS ASTRONAUTICS CO., EAST (ST. LOUIS, MISS.)
DATE: 7203
DESC: Nuclear Weapon Effects space systems L5 AVIONICS
DESC: NEUTRONS GAMMA RAYS X-RAYS EMP BETA RAYS TREE IEMP ; TABULAR
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L5

DESC: Cross Sections electron L5
DESC: Cross Sections x-ray L5
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
SHUTTLE CREW
REPN: CDRL A003
TSHO: HI-ALT
SOCE: MACE
SUJO: 2-510-000 ; 3-114-000 ; 3-312-100 ; 9-840-000 ; 9-850-000
TEMP: A1163
TITL: IMPACT STUDY SHUTTLE SYSTEM, EXECUTIVE SUMMARY, APPENDIX 1, AVIONICS
AND SURVIVABILITY (U), 161 P., (SRD)

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13874

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copy: 1 id: 47303-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13875
ADNO: 519795L
CLSS: SRD 1
CONN: NAS 9 10960
CORP: NORTH AMERICAN ROCKWELL, SPACE DIV. (DOWNEY, CA.)
DATE: 7203
DESC: Nuclear Weapon Effects space systems L5
DESC: Cross Sections x-ray L5 ALUMINUM
DESC: X-RAYS ELECTRONS ; SUMMARY
DESC: Cross Sections electron L9
REPN: SD 72 SH 0017 ; CD 72 C007
SUJO: 3-114-000 ; 9-840-000 ; 9-850-000
TEMP: A1162
TITL: SHUTTLE SYSTEM IMPACT STUDY, APPENDIX 8-NUCLEAR RADIATION PROTECTION
(U), 8 P., (SRD)

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copy: 1 id: 47304-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13914
ADNO: 521548
AUTH: SHIMMIN W.L. ; HUNTINGTON J.H. ; AVRAMI L.
CLSS: SRD 1
CCDE: ZZ (ENERGY DEPOSITION) ; POD ; PUFF
CONN: F 29601 71 C 0044
CORP: PHYSICS INTERNATIONAL CO. (SAN LEANDRO, CA.) ; PICATINNY ARSENAL
(DOVER, NJ)
DATE: 7206
DESC: Nuclear Weapon Effects ordnance explosives L1 X RAY SHOCK LEAD AZIDE

DESC: SIMULATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1
EED CONTAINING LEAD AZIDE
EFFT: BETA ; AIR-BLAST
REPN: AFWL TR 71 163 ; PIFR 308
SUJO: 3-162-000 ; 3-163-000
TEMP: A1700
TTTL: RADIATION AND SHOCK INITIATION OF LEAD AZIDE AT ELEVATED
TEMPERATURES (U), 132 P., (SRD)

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13914

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copy: 1 id: 47330-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13945
ADNO: 516499
CLSS: SRD 1
CORP: NAVAL ORDNANCE LAB. (SILVER SPRING, MD.)
DATE: 7106
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TREE X RAY
REPN: D72 00470
SUJO: 3-221-000
TEMP: A1482
TTTL: EFFECTS OF NUCLEAR RADIATION ON AMORPHOUS SEMICONDUCTORS (U), 30 P.,
(SRD)

TREE: 200

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13945

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copy: 1 id: 47356-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13972
ADNO: 513319L
AUTH: KIRBY W.G. ; MILLS D.W.
CLSS: S 1
CONN: F 40600 71 C 0002
CORP: ARO, INC. (ARNOLD AF STATION, TENN.)
DATE: 7101
REPN: D72 01029 ; AEDC TR 71 14 ; ARO VKF TR 70 299
TEMP: A1494
TTTL: RADIATION TESTS ON SCREEN MATERIAL AND AN IMAGE INTENSIFIER TUBE
(U), 87 P., (S)

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13972

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copy: 1 id: 47377-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 13987
AUTH: MCGREGOR B.J. ; ABBOTT L.S.
CLSS: U
CCDE: MORSE ; ANISN
CONN: W 7405 ENG 26
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)
DATE: 7208
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L5
DESC: Radiation Transport gamma L1
DESC: Radiation Transport neutron L1
DESC: MULTIBURST ; THEORY
REPN: ORNL TM 3864
SUJO: 5-200-000 ; 9-620-000 ; 9-650-000
TITL: EFFECTS OF AIR-DENSITY PERTURBATIONS ON THE TRANSPORT OF NEUTRONS
AND SECONDARY GAMMA RAYS PRODUCED BY POINT NEUTRON SOURCES (U), 27
P., (U)
TREE: 960 ; 970

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copy: 1 id: 47387-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14015
AUTH: THORN E.M. ; HENNEY A.G.
CLSS: U
CCDE: MOESAICS
CORP: NAVAL ORDNANCE LAB. (SILVER SPRING, MD.)
DATE: 7206
DESC: Nuclear Weapon Effects ship systems surface ships L1
DESC: CODE
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
REPN: NOLTR 72 128
SUJO: 3-122-000 ; 3-312-210
TITL: MOESAIC SYSTEM VOLUME 10, THE PROGRAM LISTING OF THE CDC 6400
VERSION OF MOESAICS WITH SUPPLEMENTARY NOTES (U), 417 P., (U)

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14015

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copy: 1 id: 47422-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14159
AUTH: LUBELL J.I. ; GRATT L.B.
CLSS: U
CCDE: TESS (NONLINEAR CIRCUIT ANALYSIS)
CORP: TRW SYSTEMS GROUP
DATE: 7107
DESC: THEORY
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 DIVIDE BY TWENTY COUNTER
EFFT: TREE
SUJO: 3-219-000
TITL: COMPUTER-AIDED SYSTEM APPROACH TO THE RADIATION VULNERABILITY OF A
DIVIDE BY TWENTY COUNTER (U), 20 P., (U)
TREE: 341

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copy: 1 id: 47555-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14172
AUTH: BEVERLY W.B.
CLSS: U
CCDE: MUSE
CORP: BALLISTIC RESEARCH LABS., ABERDEEN RESEARCH AND DEVELOPMENT CENTER
(ABERDEEN PROVING GROUND, MD.)
DATE: 7205
DESC: Radiation Transport neutron L1
DESC: THEORY CODE
REPN: BRL R 1588
SUJO: 9-650-000
TITL: MUSE-A MULTIPLE SCATTERING EFFECT CODE FOR INFINITE SLABS (U), 87
P., (U)
TREE: 970

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copy: 1 id: 47568-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14174
ADNO: 738421
AUTH: BOMBARDT J.N. JR.
CLSS: U
CORP: NAVAL ORDNANCE LAB. (SILVER SPRING, MD.)
DATE: 7201

DESC: RF EMP shielding protection L1
DESC: THEORY
EMPF: 303 ; 304
REPN: NOLTR 72 25
SUJO: 9-810-000
TTTL: SCATTERING OF ELECTROMAGNETIC RADIATION BY APERTURES; II. OBLIQUE
INCIDENCE ON THE SLOTTED PLANE FOR PARALLEL POLARIZATION (U), 54 P.,
(U)

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14174
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copy: 1 id: 47570-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14191-249
AUTH: PERCIVAL C.M.
CLSS: SRD 1
CORP: SANDIA LABS.
DATE: 7201
DESC: Directed Energy Weapons Lasers Effects reentry systems RVs L1
DESC: Directed Energy Weapons Lasers Effects Plastics L1
DESC: SUMMARY
SUJO: 3-613-050 ; 3-613-200
SYMJ: PROCEEDINGS OF THE FRONT SURFACE PHYSICS MEETING 20-21 OCTOBER 1970,
VOL. 2
TTTL: LASER RADIATION OF METAL LOADED LUCITE (U), 5 P., (SRD)

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14191-249
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copy: 1 id: 47597-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14211
ADNO: 886152L
AUTH: ZAVITSANOS P.D. ; CRESSWELL J.D.
CLSS: U
CCDE: REKAP
CONN: F 04701 69 C 0116
CORP: GENERAL ELECTRIC CO., REENTRY AND ENVIRONMENTAL SYSTEMS DIV.
(PHILADELPHIA, PA.)
DATE: 7106
DESC: CARBON PHENOLICS SILICON PHENOLICS THERMAL RADIATION SIMULATION ;
THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects materials carbon L1
DESC: Nuclear Weapon Effects reentry systems RV materials heatshield L1
DESC: equation of state heat of vaporization thermal conductivity opacity
L1 VAPORIZATION CHAR
REPN: SAMSO TR 70 341

SUJO: 3-113-220 ; 3-248-000 ; 9-710-000
TITL: REACTION RATES OF ABLATION PRODUCTS WITH PHENOLIC CHARS (U), 52 P.,
(U)

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14211
.endblock

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copy: 1 id: 47614-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14227
AUTH: BERG N.J. ; DROPKIN H.
CLSS: U
CORP: HARRY DIAMOND LABS. (WASH., DC.)
DATE: 7100
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 GUNN DIODES
EFFT: X-RAY
SUJO: 3-221-000
TITL: EFFECTS OF IONIZING RADIATION ON GUNN DIODE OSCILLATORS (U), CA. 25
P., (U)

TREE: 310

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14227
.endblock

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copy: 1 id: 47655-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14269
AUTH: ENGLE W.W. JR. ; MYNATT F.R.
CLSS: U
CCDE: ANISN ; ENDF
CONN: W 7405 ENG 26
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)
DATE: 7209
DESC: Radiation Transport neutron L1 ATMOSPHERIC CROSS SECTION EFFECTS
DESC: Radiation Transport gamma L1
DESC: THEORY TABULAR
REPN: ORNL TM 3932
SUJO: 9-620-000 ; 9-650-000
TITL: TIME-DEPENDENT NEUTRON AND SECONDARY GAMMA-RAY TRANSPORT IN INFINITE
HOMOGENEOUS AIR COMPARISON OF TWO CROSS-SECTION SETS (U), 99 P., (U)

TREE: 960 ; 970

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14269
.endblock

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copy: 1 id: 47684-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14284
AUTH: PIGG J.L. ; O'DELL A.A. ; JANEH H.S. ; HOCKER L.P.
CLSS: U
CCDE: SENIT II ; GRUMBLS ; DRUMS
CORP: EG+G, INC., SANTA BARBARA DIV. (GOLETA, CA.)
DATE: 7207
DESC: test instruments nuclear radiation gamma L1
DESC: THEORY EXPERIMENTAL
EFFT: GAMMA
REPN: S 559 R
SUJO: 4-341-000
TITL: CALIBRATION OF HDL 5-ELEMENT ABSORPTION GAMMA-RAY SPECTROMETER (U),
85 P., (U)
TREE: 651

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copy: 1 id: 47697-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14289
ADNO: 890747L
AUTH: FRYNCKO S. ; VOLK C.
CLSS: U
CONN: F 33615 70 C 1547
CORP: MOTOROLA, INC., SEMICONDUCTOR PRODUCTS DIV. (PHOENIX, ARIZ.)
DATE: 7112
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTORS RECTIFIERS
DESC: SURVEY
EFFT: TREE
REPN: AFML IR 501 1 (1) ; 0 60
SUJO: 3-221-000
TITL: MANUFACTURING METHODS PROGRAM FOR RADIATION HARDENED POWER
STRUCTURES (U), 58 P., (U)
TREE: 310 ; 610

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copy: 1 id: 47707-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14292
AUTH: SHOSA D.W.

CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7112
DESC: test instruments biomedical L1
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation dosimeters radiacs L1
EFFT: NEUTRON ; GAMMA
REPN: AFRRI TN 71 7
SUJO: 4-346-000 ; 4-351-000
TITL: REACTOR DOSIMETRY WITH PAIRED MINIATURE IONIZATION CHAMBERS (U), 17

P., (U)

TREE: 655

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copy: 1 id: 47710-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14296

AUTH: NOTTHOFF J.K.

CLSS: U

CORP: MCDONNELL DOUGLAS ASTRONAUTICS CO. (HUNTINGTON BEACH, CA.)

DATE: 7107

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 COAXIAL
CABLES

DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL

EFFT: IEMP ; TREE

EMPF: 392

REPN: MDAC PAPER 1621

SUJO: 3-231-000

TITL: COAXIAL CABLE RESPONSES TO IONIZING RADIATION FROM FX-100 AND
PR-1590 FLASH X-RAY MACHINES (U), 49 P., (U)

TREE: 390

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14296

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copy: 1 id: 47714-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14299

AUTH: BEEN J.F. ; MYERS I.T. ; GODLEWSKI M.P.

CLSS: U

CORP: LEWIS RESEARCH CENTER (CLEVELAND, OHIO)

DATE: 7105

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 GAMM NEUTRON SI DIODE CAPACITANCE

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

REPN: NASA TN D 6330

SUJO: 3-221-000
TITL: EFFECTS OF NUCLEAR RADIATION ON A HIGH-RELIABILITY SILICON POWER
DIODE; III, JUNCTION CAPACITANCE (U), 18 P., (U)

TREE: 310

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14299

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copy: 1 id: 47717-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14301

AUTH: OLSON R.J. ; ALEXANDER D.R. ; ANTINONE R.J.

CLSS: U

CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, NM)

DATE: 7100

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1

DESC: X RAY NEUTRON ELECTRON ; EXPERIMENTAL

SUJO: 3-221-000 ; 3-222-000 ; 3-229-000

TITL: RADIATION RESPONSE STUDY OF NEW RADIATION-HARDENED LOW POWER TTL
SERIES (U), 15 P., (U)

TREE: 310 ; 320

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14301

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copy: 1 id: 47719-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14304

ADNO: 883420

AUTH: DAVIDSOHN U.S.

CLSS: U

CONN: F 33615 68 C 1265

CORP: MOTOROLA INC., SEMICONDUCTOR PRODUCTS DIV. (PHOENIX, ARIZ.)

DATE: 7104

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 TRANSISTORS DIODES

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

DIELECTRIC ISOLATION

DESC: SIMULATION (FLASH X-RAY, PULSED REACTOR) EMP TREE ; EXPERIMENTAL

EMPF: 341

REPN: R 53 ; AFAL TR 71 53

SUJO: 3-221-000 ; 3-222-000

TITL: RADIATION HARDENED BIPOLAR INTEGRATED CIRCUIT ARRAYS (U), 280 P.,
(U)

TREE: 420 ; 320

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copy: 1 id: 47722-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14305

AUTH: HUGHES R.C.

CLSS: U

CORP: SANDIA LABS. (ALBUQUERQUE, NM)

DATE: 7100

DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects materials wood paper cellulose films L1

POLY-N-VINYLCARBAZOLE FILM

EFFT: TREE

SUJO: 3-246-000

TITL: RADIATION-INDUCED CONDUCTIVITY IN POLYMERS-POLY-N-VINYLCARBAZOLE

(U), CA. 40 P., (U)

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14305

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copy: 1 id: 47723-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14309

AUTH: BARNES C.E.

CLSS: U

CORP: SANDIA LABS. (ALBUQUERQUE, NM)

DATE: 7100

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 LED

DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL

EFFT: NEUTRON ; TREE

SUJO: 3-221-000

TITL: RADIATION EFFECTS IN ELECTROLUMINESCENT DIODES (U), 35 P., (U)

TREE: 364

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copy: 1 id: 47727-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14323

ADNO: 749 477

AUTH: HORNE W.E. ; MADARAS B.K.
CLSS: U
CONN: F 33615 71 C 1583
CORP: BOEING CO. (SEATTLE, WASH.)
DATE: 7208
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L5 STANDARD
N-P SILICON CELLS MOSTLY SPACE RADIATION LITHIUM DOPED CELLS
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
DESC: EXPERIMENTAL
EFFT: X-RAY ; NEUTRON ; BETA
REPN: AFAPL TR 72 69
SUJO: 3-223-000 ; 4-140-000
TITL: REAL-TIME SPACE AND NUCLEAR EFFECTS ON SOLAR CELLS (ACCELERATED
EVALUATION METHODS) (U), 88 P., (U)
TREE: 362

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14323

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copy: 1 id: 47739-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14324

ABS: A technique is developed for estimating the initial cavity radius
for explosions in shallow water, a computer code is presented for
predicting a wave train from an initial cavity, and the results are
compared with experimental data. Results of the erosion of a
synthetic bottom material by isolated waves traveling over shallow
water are also given.

AUTH: BOMBARDT J.N. JR. ; LIBELO L.F.

CLSS: U

CORP: HARRY DIAMOND LABS. (WASH., D.C.)

DATE: 7208

DESC: Electromagnetic Theory Applications L1

DESC: THEORY

DESC: RF EMP shielding protection L1

EMPF: 303 ; 304

REPN: HDL TR 1607

SUJO: 9-300-000 ; 9-810-000

TITL: SCATTERING OF ELECTROMAGNETIC RADIATION BY APERTURES-4. SLOTTED
CYLINDER AND CYLINDRICAL STRIPS IN THE RAYLEIGH LIMIT (U), 28 P.,
(U)

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14324

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copy: 1 id: 47740-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14333
ADNO: 745906
AUTH: FRENCH R.L. ; MOONEY L.G.
CLSS: U
CONN: DAHC 20 72 C 0123
CORP: RADIATION RESEARCH ASSOCIATES, INC. (FORT WORTH, TX.)
DATE: 7207
DESC: SUMMARY
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
SPECTRUM WITH TIME P. 10
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1 NEUTRON CAPTURE
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1 AIR-GROUND INTERFACE
REPN: RRA T7201
SUJO: 1-110-000 ; 1-710-000 ; 2-223-200
TITL: INITIAL RADIATION EXPOSURE FROM NUCLEAR WEAPONS (U), 87 P., (U)
TREE: 910 ; 920

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14333

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copy: 1 id: 47745-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14351
ADNO: 894931
AUTH: ALLAN J.F.
CLSS: U
CORP: DEFENCE RESEARCH ESTABLISHMENT OTTAWA
DATE: 7204
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: TUTORIAL TYPE SURVEY ; SURVEY
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 VARIETY OF MISCELLANEOUS
THINGS INCLUDING OVONIC DEVICES
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
LA: CANADA
REPN: DREO R 656
SUJO: 3-221-000 ; 3-222-000 ; 3-229-000
TITL: GENERAL SURVEY OF TRANSIENT-RADIATION EFFECTS ON ELECTRONICS (TREE),
WITH PARTICULAR REFERENCE TO SEMICONDUCTOR DEVICES (U), 50 P., (U)
TREE: 300

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14351

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copy: 1 id: 47763-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14403
ADNO: 746098
AUTH: STAMPER J.A.
CLSS: U
CORP: NAVAL RESEARCH LAB. (WASH., DC)
DATE: 7206
DESC: THEORY
DESC: Directed Energy Weapons Lasers Applications High-intensity radiation
field generation L1
REPN: NRL R 7411
SUJO: 3-616-750
TITL: LASER-INDUCED SOURCES FOR MAGNETIC FIELDS (U), 24 P., (U)

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14403

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copy: 1 id: 47808-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14404
ADNO: 521076L
CLSS: SFRD 1
CONN: F 04701 68 C 0035
CORP: AVCO GOVERNMENT PRODUCTS GROUP, AVCO SYSTEMS DIV. (WILMINGTON, MA.)
DATE: 7205
DESC: X-RAY SIMULATION IMPULSE LOADING ; EXPERIMENTAL
DESC: Nuclear Weapon Effects reentry systems RV materials heatshield L1
DESC: Nuclear Weapon Effects materials plastics resins L1 3DQP
DESC: Nuclear Weapon Effects reentry systems RV L1
EFFT: X-RAY ; AIR-BLAST
REPN: AVMSD 0094 69 RR VOL. 11 BK. 1 ; SAMSO TR 71 204
SUJO: 3-113-000 ; 3-113-220 ; 3-244-000
TEMP: A2497
TITL: RADIATION DAMAGE STUDY PHASE III (RADS III); VOL. 11, 3DQP MATERIAL
CHARACTERIZATION; BOOK 1, 3DQP MATERIAL CHARACTERIZATION (U), 112
P., (SFRD)

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copy: 1 id: 47809-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14405
AUTH: NEWMEN D.A. ; GRANNEMANN W.W.
CLSS: U
CONN: N 00014 68 A 0158
CORP: UNIVERSITY OF NEW MEXICO (ALBUQUERQUE, N.M.)
DATE: 7200
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 SI GA AS GA AS 0.5 P0.5 SCHOTTKY
DIODES GENERATION RATE CONVERSION FACTOR

DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
EFFT: BETA
SUJO: 3-221-000
TITL: EXPERIMENTAL DETERMINATION OF THE GENERATION RATE CONVERSION FACTOR
USING A PULSE OF IONIZING RADIATION OF ARBITRARY SHAPE (U), 15 P.,
(U)

TREE: 310

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14405

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copy: 1 id: 47810-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14408

ADNO: 521625L

AUTH: HONNOLD V.R. ; BUCK J.S. ; SPEHAR G.G.

CLSS: SRD 1

CONN: F 04701 71 C 0153

CORP: TRW SYSTEMS GROUP (REDONDO BEACH, CA.)

DATE: 7207

DESC: Nuclear Weapon Effects materials ceramics optical L1 SILICA SILICON
GERMANIUM MAGNESIUM FLUORIDE ZINC SULFIDE CALCIUM FLUORIDE ZINC
SELENIDE SAPPHIRE BANDPASS FILTER

DESC: SIMULATION (VAN DE GRAAFF) ; EXPERIMENTAL

EFFT: BETA

REPN: SAMSO TR 72 149

SUJO: 3-241-000

TEMP: A2488

TITL: TRANSIENT RADIATION EFFECTS IN TRANSPARENT INFRARED MATERIALS (U),
89 P., (SRD)

TREE: 361

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14408

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copy: 1 id: 47813-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14409

AUTH: MOORE W.J. ; RADOFF P.L. ; MOLNAR B.

CLSS: U

CORP: NAVAL RESEARCH LAB. (WASH., D.C.)

DATE: 7210

DESC: THEORY EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1 1R DETECTORS

EFFT: TREE

REPN: NRL MR 2519
SUJO: 3-224-000
TITL: TRANSIENT RADIATION EFFECTS ON DETECTORS (U), 24 P., (U)
TREE: 361

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copy: 1 id: 47814-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14426
ADNO: 751048
AUTH: TAMOR S.
CLSS: U
CONN: DASA 01 71 C 0135
CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA.)
DATE: 7210
DESC: X-RAY PRODUCTION BY LASER HEATING AND IONIZATION ; THEORY
DESC: Directed Energy Weapons Lasers Applications High-intensity radiation
field generation L1

REPN: SAI 72 548 LJ
SUJO: 3-616-750
TITL: STUDIES IN THE PHYSICS OF X-RAY GENERATION OF LASER-HEATED PLASMAS
(U), 58 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14450
AUTH: FUKUDA K. ; OKABE S.
CLSS: U
CORP: RADIATION CENTER OF OSAKA PREFECTURE (SAKAI, OSAKA, JAPAN)
DATE: 7110
DESC: test instruments nuclear radiation neutron L1
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: NEUTRON ; GAMMA
LA: JAPAN
SUJO: 4-342-000
TITL: RESPONSE OF A GAMMA COMPENSATED IONIZATION CHAMBER TO NEUTRONS IN
INTENSE TRANSIENT GAMMA-FIELDS (U), 5 P., (U)

TREE: 364

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14450

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copy: 1 id: 47842-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14451
AUTH: VAN LINT V.A.J.
CLSS: U
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7207
DESC: THEORY SURVEY
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1 STANDARDS

REPN: GULF RT A12193
SUJO: 4-170-000
TITL: NEED FOR STANDARDS TO CHARACTERIZE RADIATION RESPONSE OF ELECTRONIC
DEVICES (U), 11 P., (U)

TREE: 620

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14451

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copy: 1 id: 47843-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14475
ADNO: 752026
AUTH: LORENZ R.A.
CLSS: U
CCDE: PEDAS ; SETUP
CORP: NAVAL ORDNANCE LAB. (SILVER SPRING, MD.)
DATE: 7209
DESC: MONTE CARLO 2D ; THEORY TABULAR CODE
DESC: Nuclear Weapon Effects meteorological Atmospheric Heating L1
DESC: Radiation Transport x-ray L1
DESC: Cross Sections x-ray L1 AIR X RAY DEPOSITION
REPN: NOLTR 72 218
TSHO: HI-ALT
SUJO: 2-730-000 ; 9-640-000 ; 9-840-000
TITL: PEDAS-A 2-DIMENSIONAL TIME-DEPENDENT MONTE CARLO CODE FOR
PHOTON-ENERGY DEPOSITION AND AIR STRIPPING (U), 107 P., (U)

TREE: 980

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copy: 1 id: 47857-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14480
ADNO: 730922

AUTH: REIDER D.R. ; EPSTEIN D.L. ; KIRK J.H.
CLSS: U
CORP: AIR FORCE SCHOOL OF AEROSPACE MEDICINE, AEROSPACE MEDICAL DIV.
(BROOKS AFB, TX.)
DATE: 7108
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals RF microwave L1 19
MHZ/HF/CATARACTS/NO EFFECTS
EMPF: 500
REPN: SAM TR 71 24 ; 3 71
SUJO: 3-314-000
TITL: POSSIBLE CATARACTOGENIC EFFECTS OF RADIOFREQUENCY RADIATION (U), 7
P., (U)

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14480

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copy: 1 id: 47862-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14484
ADNO: 728397
AUTH: MCLEES B.D. ; FINCH E.D.
CLSS: U
CORP: NATIONAL NAVAL MEDICAL CENTER, NAVAL MEDICAL RESEARCH INSTITUTE
(BETHESDA, MD.)
DATE: 7106
DESC: EXPERIMENTAL SUMMARY
DESC: Nuclear Weapon Effects on animals RF microwave L1 MICROWAVE
SUJO: 3-314-000
TITL: ANALYSIS OF THE PHYSIOLOGIC EFFECTS OF MICROWAVE RADIATION (U), 73
P., (U)

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14484

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copy: 1 id: 47866-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 14487
ADNO: 750271
AUTH: GLASER Z.R.
CLSS: U
CORP: NATIONAL NAVAL MEDICAL CENTER, NAVAL MEDICAL RESEARCH INSTITUTE
(BETHESDA, MD.)
DATE: 7110
DESC: Nuclear Weapon Effects on animals RF microwave L1
DESC: BIBLIOGRAPHY
EMPF: 150 ; 500
SUJO: 3-314-000

TITL: BIBLIOGRAPHY OF REPORTED BIOLOGICAL PHENOMENA ('EFFECTS') AND
CLINICAL MANIFESTATIONS ATTRIBUTED TO MICROWAVE AND RADIO-FREQUENCY
RADIATION (U), 103 P., (U)

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copy: 1 id: 47869-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14489

ADNO: 741574

AUTH: SCHWAN H.P.

CLSS: U

CONN: NONR 551 05 ; NONR 551 52 ; AF 30 (602)

CORP: UNIVERSITY OF PENNSYLVANIA, MOORE SCHOOL OF ELECTRICAL ENGINEERING
(PHILADELPHIA, PA.)

DATE: 7100

DESC: Nuclear Weapon Effects on animals RF microwave L1
HF/VHF/UHF/MICROWAVES

DESC: SUMMARY

EMPF: 500

SUJO: 3-314-000

TITL: INTERACTION OF MICROWAVE AND RADIO FREQUENCY RADIATION WITH
BIOLOGICAL SYSTEMS (INVITED PAPER) (U), 8 P., (U)

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14489

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copy: 1 id: 47871-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14502

ADNO: 744870

AUTH: PETROV I.R. ; SUBBOTA A.G.

CLSS: U

CORP: DEFENCE RESEARCH INFORMATION CENTER

DATE: 7207

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals RF microwave L1 MICROWAVES

LA: UK

REPN: BR 30223

SUJO: 3-314-000

TITL: EFFECTS ON THE BODY OF ELECTROMAGNETIC RADIATION OF THE SHF RANGE
(U), 11 P., (U)

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copy: 1 id: 47884-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 14549
ADNO: 887119L
AUTH: GROVE H.M.
CLSS: U
CORP: WALTER REED ARMY INSTITUTE OF RESEARCH, DIV. OF NEUROPSYCHIATRY,
WALTER REED ARMY MEDICAL CENTER (WASH., D.C.)
DATE: 7107
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Effects on animals RF microwave L1
EFFT: MICROWAVE
SUJO: 3-314-000
TITL: BIOLOGICAL EFFECTS OF ELECTROMAGNETIC RADIATION--BIBLIOGRAPHY (U),
250 P., (U)

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14549
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copy: 1 id: 47926-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14568
ADNO: 520867L
AUTH: JOHNSON R.R.
CLSS: SRD 1
CCDE: SECURE ; TRAC
CONN: DAHC 60 71 C 0041
CORP: HONEYWELL GOVERNMENT AND AERONAUTICAL PRODUCTS DIV. (MINNEAPOLIS,
MN.)
DATE: 7205
DESC: SIMULATION (FLASH X RAY) ; EXPERIMENTAL SUMMARY
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
LASER GYRO CIRCUIT ASSEMBLIES
EFFT: X-RAY ; TREE
REPN: Z9080 3010
TSHO: HI-ALT
SUJO: 3-211-000
SYST: LARS
TEMP: A2561
TITL: RADIATION-TOLERANT LASER GYRO SUBSYSTEM DEVELOPMENT; VOL. 1,
TECHNICAL SUMMARY (U), CA. 70 P., (SRD)

TREE: 342
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14568
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copy: 1 id: 47941-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14576
AUTH: LICHTENSTEIN H. ; TROUBETZKOY E.S. ; BEER M.
CLSS: U
CCDE: SAM-CE
CONN: DASA 01 70 C 0083 P00002
CORP: MATHEMATICAL APPLICATIONS GROUP, INC. (ELMSFORD, NY)
DATE: 7208
DESC: Radiation Transport neutron L1
DESC: SIMULATION ; TABULAR
DESC: Radiation Transport gamma L1
REPN: MR 7030
SUJO: 9-620-000 ; 9-650-000
TITL: MODIFICATION OF THE SAM-CE SYSTEM TO SAM-CE REVISION A (U), 34 P.,
(U)
TREE: 960 ; 970

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14576

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copy: 1 id: 47948-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14577
AUTH: BROWN W.A. ; GUNTON R.C. ; MCCORMAC B.M. ; SEARS R.D.
CLSS: S 3
CCDE: WOE
CONN: DAHC 60 70 C 0081
CORP: LOCKHEED MISSILES AND SPACE CO., LOCKHEED PALO ALTO RESEARCH LAB.
(PALO ALTO, CA.)
DATE: 7104
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L5
DESC: Nuclear Weapon Environment Infrared Output angular distribution L1
DESC: SIMULATION (METAL OXIDE RELEASE) ; THEORY EXPERIMENTAL
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L5
REPN: LMSC B290020
SHOT: BLUEGILL
TSHO: LOW-ALT ; HI-ALT
SUJO: 1-330-000 ; 2-160-000 ; 2-211-000 ; 4-820-600
TEMP: 77863
TITL: NUCLEAR INTERFERENCE-METAL OXIDE CHEMICAL RELEASE EXPERIMENTAL
DEFINITION (U), 122 P., (S)

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copy: 1 id: 47949-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent
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INUM: 14580
ADNO: 745084
AUTH: BACHMAN J.A.
CLSS: U
CCDE: SMAUG ; ANISN ; SORS ; FIREFLY ; FISS ; VIRGIN ; EPAR
CORP: AIR FORCE INSTITUTE OF TECHNOLOGY (WRIGHT-PATTERSON AFB, OHIO)
DATE: 7206
DESC: SIMULATION ; THEORY CODE
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
REPN: GNE/PH/72 1
SUJO: 3-312-000
TITL: METHOD FOR CALCULATING AIRCREW RADIATION DOSE (U), 87 P., (U)

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14580

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copy: 1 id: 47950-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14585
AUTH: STAMPER J.A.
CLSS: U
CORP: NAVAL RESEARCH LAB. (WASH., D.C.)
DATE: 7208
DESC: THEORY
DESC: Plasma Physics MHD fusion L1
REPN: NRL MR 2492
SUJO: 9-500-000
TITL: MAGNETIC FIELD GENERATION DUE TO RADIATION PRESSURE IN A
LASER-PRODUCED PLASMA (U), 22 P., (U)

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14585

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copy: 1 id: 47955-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14586
AUTH: STRAKER E.A.
CLSS: U
CCDE: ANISN ; DOT ; OGR ; MORSE
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)
DATE: 7208
DESC: Cross Sections neutron L1 NITROGEN
DESC: Radiation Transport gamma L1 HEURE MEASUREMENTS
DESC: Radiation Transport neutron L1
DESC: THEORY EXPERIMENTAL

REP: ORNL TM 3768
SUJO: 9-620-000 ; 9-650-000 ; 9-820-000
TITL: INVESTIGATION OF THE ADEQUACY OF NITROGEN CROSS-SECTION
SETSCOMPARISON OF NEUTRON AND SECONDARY GAMMA-RAY TRANSPORT
CALCULATIONS WITH INTEGRAL EXPERIMENTS (U), 63 P., (U)

TREE: 412

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14586

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copy: 1 id: 47956-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14598

ADNO: 751988

AUTH: BROCK T.K.

CLSS: U

CCDE: SMANG

CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, NM)

DATE: 7211

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

TISSUE DOSE EQUIVALENTS

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1

DESC: TABULAR

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1

REP: AFWL TR 72 147

SUJO: 1-110-000 ; 1-710-000 ; 1-740-000 ; 3-312-100

TITL: QUICK-LOOK RADIATION CHARTS (U), 35 P., (U)

TREE: 910 ; 920

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14598

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copy: 1 id: 47963-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 14611

AUTH: CHADSEY W.L. ; KOHLBERG I.

CLSS: U

CCDE: POET ; POEM ; ONE-D

CORP: GENERAL ELECTRIC CO., RE-ENTRY AND ENVIRONMENTAL PRODUCTS DIV.
(PHILADELPHIA, PA.) ; ANALYTICAL SYSTEMS CORPORATION (BURLINGTON,
MA.)

DATE: 7107

DESC: THEORY

DESC: Radiation Transport gamma L1

EMPF: 391

SUJO: 9-620-000
TITL: COMPUTATION OF PHOTON RADIATION INDUCED ELECTRON EMISSION (U), 30
P., (U)

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14611

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copy: 1 id: 47974-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14613
ADNO: 520826L
AUTH: FLORENCE R.A.
CLSS: S 3
CONN: DAHC 60 70 C 0103
CORP: AUTONETICS (ANAHEIM, CA.)
DATE: 7204
DESC: test instruments IR L1
DESC: SIMULATION (ISOTOPIC) ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1
EFFT: GAMMA
REPN: C 71 528.2/401
SUJO: 3-223-000 ; 4-383-000
TEMP: A2619
TITL: NUCLEAR RADIATION EFFECTS STUDY (U), CA. 250 P., (S)

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14613

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copy: 1 id: 47976-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14623
AUTH: WEBSTER J.B. ; STEPHAN B.G.
CLSS: U
CCDE: TOTALCS ; NUMINTG ; GROUP ; COMBINE ; FEWGPS ; PHOTOE ; FREFRE ;
SCALE
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, N.M.)
DATE: 7203
DESC: Cross Sections gamma L1
DESC: THEORY CODE
DESC: Cross Sections x-ray L1
DESC: Radiation Transport x-ray L1
REPN: DE TN 72 014
SUJO: 9-640-000 ; 9-830-000 ; 9-840-000
TITL: COMPUTER PROGRAMS FOR GENERATING INTERACTION CROSS-SECTIONS FOR
COMPTON SCATTERING AND FREE ABSORPTION FROM A RELATIVISTIC
MAXWELLIAN DISTRIBUTION OF ELECTRONS, AND PHOTOELECTRIC ABSORPTION
BY BOUND ELECTRONS (U), 76 P., (U)

TREE: 414

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14623

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copy: 1 id: 47985-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14624

ADNO: 748888

AUTH: BECK R.L. ; BROWN W.W.

CLSS: U

CCDE: DOT ; OGRE ; 05R

CONN: F 04701 71 C 0172

CORP: AEROSPACE CORP. (SAN BERNARDINO, CA.)

DATE: 7107

DESC: Nuclear Weapon Environment Prompt Neutrons L1

DESC: TABULAR

DESC: Radiation Transport neutron L1

REPN: TOR 0172 (S2320 1) 2 ; SAMSO TR 72 221 VOL. 1

TSHO: LOW-ALT

SUJO: 1-100-000 ; 9-650-000

TITL: NEUTRON AND GAMMA-RAY ENVIRONMENTS FOR POINT NEUTRON SOURCES IN AN
AIR-OVER-GROUND GEOMETRY, VOL. 1 (U), 363 P., (U)

TREE: 970

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14624

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copy: 1 id: 47986-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 14625

ADNO: 748889

AUTH: BECK R.L. ; BROWN W.W.

CLSS: U

CCDE: DOT

CONN: F 04701 71 C 0172

CORP: AEROSPACE CORP. (SAN BERNARDINO, CA.)

DATE: 7107

DESC: Nuclear Weapon Environment Initial Gamma L1

DESC: Radiation Transport gamma L1

DESC: TABULAR

REPN: TOR 0172 (S2320 01) 2 ; SAMSO TR 72 221 VOL. 2

TSHO: LOW-ALT

SUJO: 1-700-000 ; 9-620-000

TITL: NEUTRON AND GAMMA-RAY ENVIRONMENTS FOR POINT NEUTRON SOURCES IN AN
AIR-OVER-GROUND GEOMETRY, VOL. 2 (U), 474 P., (U)

TREE: 960

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14625

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copy: 1 id: 47987-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14631
AUTH: RHOADES W.A.
CLSS: U
CCDE: ALC1
CONN: W 7405 ENG 26
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)
DATE: 7212
DESC: Cross Sections neutron L5
DESC: test instruments nuclear radiation L1
DESC: CODE
REPN: ORNL TM 4015
SUJO: 4-340-000 ; 9-820-000
TITL: ALC1 PROGRAM FOR CROSS-SECTION LIBRARY MANAGEMENT (U), 13 P., (U)
TREE: 412

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14631

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copy: 1 id: 47990-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 14644
AUTH: BARTINE D.E. ; OBLOW E. ; MYNATT F.R.
CLSS: U
CCDE: ANISN ; ENDF/B-III
CONN: W 7405 ENG 26
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)
DATE: 7212
DESC: Radiation Transport neutron L5
DESC: SODIUM-IRON SLAB ; THEORY
DESC: Cross Sections neutron L1
REPN: ORNL TM 3944
SUJO: 9-650-000 ; 9-820-000
TITL: NEUTRON CROSS-SECTION SENSITIVITY ANALYSIS-A GENERAL APPROACH
ILLUSTRATED FOR A NA-FE SYSTEM (U), 27 P., (U)

TREE: 412

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14644

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copy: 1 id: 47999-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14662
AUTH: WILSON D.M.
CLSS: U
CCDE: CYLDAT; PLT1D ; ROTCYL ; THNEL
CORP: NAVAL ORDNANCE LAB. (SILVER SPRING, MD.)
DATE: 7208
DESC: Nuclear Weapon Effects structures aboveground models plates slabs L1
DESC: Nuclear Weapon Effects structures aboveground models cylinders cones
rings L1
DESC: THEORY CODE
DESC: Nuclear Weapon Effects ship systems surface ships L9
EFFT: THERMAL
REPN: NOLTR 72 177
SUJO: 3-122-000 ; 3-259-300 ; 3-259-400
TITL: METHOD OF EFFICIENTLY CALCULATING THE TEMPERATURE DISTRIBUTION
HISTORY IN STRUCTURAL ELEMENTS EXPOSED TO THE THERMAL RADIATION
PULSE OF A NUCLEAR WEAPON EXPLOSION (U), 36 P., (U)

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14662

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copy: 1 id: 48013-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14676
ADNO: 746015
AUTH: MCLAREN R.D.
CLSS: U
CCDE: SMAUG ; ZZ
CORP: AIR FORCE INSTITUTE OF TECHNOLOGY (WRIGHT-PATTERSON AFB, OHIO)
DATE: 7206
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L5
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Radiation Transport neutron L5
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: THEORY CODE
DESC: Radiation Transport gamma L5
DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L5
EFFT: NEUTRON ; GAMMA
REPN: GNE/PH/72 8
TSHO: LOW-ALT ; HI-ALT
SUJO: 1-110-000 ; 1-120-000 ; 1-710-000 ; 1-720-000 ; 9-620-000 ;
9-650-000
TITL: CODE FOR AIRCRAFT SURVIVABILITY ANALYSIS GAMMA AND NEUTRON EFFECTS
(U), 142 P., (U)
TREE: 960 ; 970

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copy: 1 id: 48024-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14680
AUTH: DELLIN T.A. ; MACCALLUM C.J.
CLSS: U
CCDE: QUICKE ; PELEC ; SANDYL
CONN: AT (29 1) 789
CORP: SANDIA LABS. (ALBUQUERQUE, NM) ; SANDIA LABS. (LIVERMORE, CA)
DATE: 7212
DESC: TABULAR HANDBOOK
DESC: Nuclear Weapon Effects materials plastics resins L1
DESC: Solid Mechanics L1 COMPTON CURRENT
DESC: Radiation Transport electron L1
DESC: Nuclear Weapon Effects materials metals alloys L1
EFFT: IEMP
EMPF: 391
REPN: SCL RR 720086
SUJO: 3-243-000 ; 3-244-000 ; 9-200-000 ; 9-680-000
TITL: HANDBOOK OF PHOTO-COMPTON CURRENT DATA (U), 80 P., (U)
TREE: 990

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14680
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14689
ADNO: 521680L
AUTH: RUDIE N.J.
CLSS: SFRD
CONN: F 33615 71 C 1398
CORP: NORTH AMERICAN ROCKWELL, AUTONETICS DIV.
DATE: 7207
DESC: THEORY SURVEY
DESC: Nuclear Weapon Effects flight systems airplanes L1 NAVIGATION SYSTEM
DESC: Nuclear Weapon Effects electronic subsystems guidance control L1
NAVIGATION SYSTEM
EFFT: EMP ; TREE
EMPF: 344
REPN: C71 672/201 ; AFAL TR 72 182 VOL. 3
SUJO: 3-111-000 ; 3-211-000
SYST: B-1 AIRCRAFT
TEMP: A2708
TITL: MICRO-NAVIGATOR (MICRON) PHASE 1A FINAL REPORT; VOL. 2, APPENDIX A,
RADIATION HARDNESS STUDY (U), 28 P., (S)

TREE: 342
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14689

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created: 12/27/1991 type: REPORT permanent

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INUM: 14728
CLSS: U
CCDE: RIP ; FSCATT ; HYDRO ; PUFF
CONN: DASA 01 70 C 0055
CORP: SYSTEMS, SCIENCE AND SOFTWARE (LA JOLLA, CA.)
DATE: 7209
DESC: Fluid Mechanics hydrodynamics L1
DESC: Nuclear Weapon Effects materials metals alloys L1 AL
DESC: SIMULATION (FLYER PLATE) ; THEORY CODE
DESC: equation of state heat of vaporization thermal conductivity opacity
L1 EOS
DESC: Radiation Transport x-ray L1
EFFT: X-RAY ; AIR-BLAST
REPN: SSS R 72 1324
SUJO: 3-243-000 ; 9-410-000 ; 9-640-000 ; 9-710-000
TITL: RIP, A ONE-DIMENSIONAL MATERIAL RESPONSE CODE (U), 84 P., (U)

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copy: 1 id: 48062-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14729
ADNO: 777 744
AUTH: FISHER R.H. ; LANE G.A. ; CECIL R.A.
CLSS: U
CCDE: RIP
CONN: DASA 01 70 C 0055
CORP: SYSTEMS, SCIENCE AND SOFTWARE (LA JOLLA, CA.)
DATE: 7209
DESC: Fluid Mechanics hydrodynamics L1
DESC: TABULAR CODE
DESC: Radiation Transport x-ray L1
DESC: Nuclear Weapon Effects materials not systems associated L1 CU AL
EFFT: X-RAY
REPN: 3SR 751 I
SUJO: 3-240-000 ; 9-410-000 ; 9-640-000
TITL: RIP, A ONE-DIMENSIONAL MATERIAL RESPONSE CODE; VOL. 1, USER'S GUIDE
(U), 535 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14730
ADNO: 777 745
AUTH: FISHER R.H. ; LANE G.A. ; CECIL R.A.
CLSS: U
CCDE: RIP
CONN: DASA 01 70 C 0055
CORP: SYSTEMS, SCIENCE AND SOFTWARE (LA JOLLA, CA.)
DATE: 7209
DESC: Fluid Mechanics hydrodynamics L1
DESC: Nuclear Weapon Effects materials not systems associated L1
DESC: THEORY CODE
DESC: Radiation Transport x-ray L1
EFFT: X-RAY
REPN: 3SR 751 II
SUJO: 3-240-000 ; 9-410-000 ; 9-640-000
TITL: RIP, A ONE-DIMENSIONAL MATERIAL RESPONSE CODE; VOL. 2, CODE
REFERENCE MANUAL (U), 595 P., (U)

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copy: 1 id: 48064-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14772
AUTH: READY J.M.
CLSS: C
CORP: NAVAL SHIP RESEARCH AND DEVELOPMENT CENTER (BETHESDA, MD.)
DATE: 7208
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems antennas L1 SURVEILLANCE ANTENNAS/SYNERGISTIC
EFFECTS
DESC: SUMMARY
DESC: Nuclear Weapon Effects ship systems surface ships L1 ANTENNAS
EFFT: THERMAL ; AIR-BLAST ; INTEGRATED
REPN: C 3852 ; NSRDC C 3852
SUJO: 3-122-000 ; 3-132-210
SYST: AN-SPS/55 ; AS-1138/SP ; AS 117A/UPX ; AS-1092/SP ; AS-1065/UPX ;
AS-936A/SPS-10
TEMP: A2585
TITL: VULNERABILITY OF SELECTED SURVEILLANCE ANTENNAS TO THE EFFECTS OF
AIR BLAST AND THERMAL RADIATION FROM A NUCLEAR EXPLOSION (U), 38 P.,
(C)

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copy: 1 id: 48101-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14779
AUTH: KERR D.M. ; PEEK H.M.
CLSS: SRD CNWDI
CCDE: FLASH ; RWRDFL ; BLUEFLASH ; ICE ; SIERRA
CONN: W 7405 ENG 36
CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, NM)
DATE: 7112
DESC: SUMMARY
DESC: Nuclear Weapon Environment Visible Output rate L1
DESC: nuclear test detection visible light detection L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1
DESC: Radiation Transport visible L1
REPN: LA 4786 PR
SHOT: CHAMA ; CHARLIE (TS) ; HOOD ; TIGHTROPE ; STARFISH ; BIRDSEED 1 ;
DIAGONAL LINE
TSHO: UG-CONTAINED ; LOW-ALT ; HI-ALT
SOCE: SPARTAN
SUJO: 1-420-000 ; 1-440-000 ; 2-211-000 ; 4-910-900 ; 9-630-000
TEMP: A2573
TITL: RESEARCH ON NUCLEAR WEAPONS PHENOMENOLOGY; QUARTERLY SUMMARY OF, FOR
PERIOD ENDING SEPTEMBER 30, 1971 (U), 30 P., (SRD CNWDI)

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14779
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copy: 1 id: 48107-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14783
AUTH: OSSAKOW S.L. ; OTT E. ; HABER I.
CLSS: U
CORP: NAVAL RESEARCH LAB. (WASH., D.C.)
DATE: 7211
DESC: Plasma Physics MHD fusion L1
DESC: SUMMARY
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1 WHISTLER
TURBULANCE/COMPUTER SIMULATION
REPN: NRL MR 2532
SUJO: 5-800-000 ; 9-500-000
TITL: SIMULATION OF GYRORESONANT ELECTRON-WHISTLER INTERACTIONS IN THE
OUTER RADIATION BELTS (U), 20 P., (U)

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14783
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copy: 1 id: 48110-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 14972
ADNO: 905827L
AUTH: MACDOUGALL J.S. ; STAFFORD K.R. ; KEET A.J.
CLSS: U
CONN: F 19628 69 C 0166
CORP: FAIRCHILD CAMERA AND INSTRUMENT CORP. (MOUNTAIN VIEW, CA.)
DATE: 7208
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (FLASH X-RAY LINAC CO 60) ; THEORY EXPERIMENTAL
EFFT: TREE
REPN: AFCRL 72 0558
SUJO: 3-213-000 ; 3-221-000 ; 3-222-000
TITL: DEVELOPMENT OF A RADIATION HARDENED OPERATIONAL AMPLIFIER (U), 118
P., (U)
TREE: 369

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14972
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copy: 1 id: 48258-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14996-17
AUTH: GRANT G.A.
CLSS: U
CORP: DEFENCE RESEARCH ESTABLISHMENT
DATE: 7207
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
TREATMENT
LA: CANADA
SUJO: 3-312-100
SYMJ: TTCP PANEL N-5 MEETING 21-23 MARCH 1972
TITL: REPORT OF THE WORKING GROUP ON CHEMOPROPHYLLAXIS (U), 8 P., (U)

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14996-17
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copy: 1 id: 48269-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 14996-31

AUTH: DAVIDSON C.N.
CLSS: U
CORP: ARMY COMBAT DEVELOPMENTS COMMAND NUCLEAR AGENCY
DATE: 7207
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
DESC: SUMMARY
SUJO: 3-312-100
SYMJ: TTCP PANEL N-5 MEETING 21-23 MARCH 1972
TITL: PERSONNEL RISK AND CASUALTY CRITERIA FOR NUCLEAR WEAPONS EFFECTS
(U), 36 P., (U)

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14996-31

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copy: 1 id: 48270-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14996-73
AUTH: CLIFFORD C.E. ; FACEY R.A.
CLSS: U
CORP: DEFENCE RESEARCH ESTABLISHMENT OTTAWA
DATE: 7207
DESC: test instruments nuclear radiation dosimeters radiacs L5
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
LA: CANADA
SUJO: 3-312-100 ; 4-346-000
SYMJ: TTCP PANEL N-5 MEETING 21-23 MARCH 1972
TITL: RELATIONSHIPS BETWEEN DOSIMETER RESPONSE AND ABSORBED DOSE FOR
0.66-MEV GAMMA RAYS AND FOR 2.95-MEV NEUTRONS (U), 6 P., (U)
TREE: 655

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14996-73

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copy: 1 id: 48272-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 14996-79
AUTH: DAVIS W.F.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE
DATE: 7207
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: SIMULATION (LINAC) SIMULATION (REACTOR) ; EXPERIMENTAL
SUJO: 3-312-100
SYMJ: TTCP PANEL N-5 MEETING 21-23 MARCH 1972
TITL: DNA PERFORMANCE DECREMENT INCAPACITATION PROGRAM (U), 46 P., (U)

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14996-79

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copy: 1 id: 48273-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15037
AUTH: YOUNG T.O.
CLSS: C
CORP: UNITED KINGDOM ATOMIC ENERGY AUTHORITY
DATE: 7200
DESC: THEORY
DESC: test instruments nuclear radiation dosimeters radiacs L1
LA: UK
REPN: AWRE 026/69 (REV.)
SUJO: 4-346-000
TEMP: A2642
TITL: ORIENTATION AND SAMPLING IN MILITARY DOSIMETRY (U), 34 P., (C)
TREE: 655

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copy: 1 id: 48303-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15049
AUTH: SMITH A.E. ; MOORE W.E.
CLSS: U
CORP: ENVIRONMENTAL PROTECTION AGENCY
DATE: 7201
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic external
L1
DESC: BIKINI ATOLL ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
DESC: Nuclear Warfare Postattack Recovery resources soil quality L1
EFFT: GAMMA ; TRITIUM ; PLUTONIUM ; STRONTIUM
REPN: SWRHL 111R
TSHO: MULTIPLE
SUJO: 2-223-100 ; 2-223-420 ; 3-312-210 ; 3-332-210 ; 3-448-400
TITL: REPORT OF THE RADIOLOGICAL CLEAN-UP OF BIKINI ATOLL (U), 46 P., (U)

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15049

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copy: 1 id: 48314-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15077
CLSS: U
CORP: ATOMIC ENERGY COMMISSION (WASH., D.C.)
DATE: 7204
DESC: Environmental Impact Assessments EIS Supporting Data L1
DESC: DIABLO CANYON
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L5
REPN: EIS 18 ; WASH 1524 ; PB 206082
SUJO: 4-241-000 ; 4-870-000
TITL: WAGON WHEEL GAS STIMULATION PROJECT, SUBLETTE COUNTY, WYOMING (U),
CA. 200 P., (U)

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copy: 1 id: 48339-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15164
AUTH: OZOLINS A. ; HEIMERL J.M.
CLSS: U
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7209
DESC: Simulation Facilities Techniques thermal optical L1
DESC: THEORY EXPERIMENTAL
REPN: BRL MR 2231
SUJO: 4-280-000
TITL: LAMP TO PRODUCE RADIATION AT WAVELENGTH LESS THAN OR EQUAL TO 1028A.
I. LY BETA RADIATION (U), 28 P., (U)

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15164

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copy: 1 id: 48404-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15191
AUTH: SMITH P.R. ; WENAAS E.P.
CLSS: S
CCDE: TEDIEM ; GRAP 2
CONN: DNA 001 72 C 0238
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7209
DESC: SUMMARY
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1 SHORT CIRCUIT APPROXIMATIONS
EFFT: IEMP

EMPF: 391
REPN: GULF RT B11101
SUJO: 4-170-000
TEMP: A3130
TITL: IEMP FIELDS IN A CYLINDRICAL CAVITY (U), 13 P., (S)

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copy: 1 id: 48422-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15211
ADNO: 523886
AUTH: HARNER E.L.
CLSS: SRD
CONN: DASA 01 70 C 0035
CORP: DASIAC (SANTA BARBARA, CA.)
DATE: 7209
DESC: BIBLIOGRAPHY
DESC: Shielding Protection L1
DESC: Radiation Transport L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Nuclear Weapon Environment Summaries L1
REPN: DASIAC B RP 72 1
SUJO: 1-000-000 ; 2-210-000 ; 9-600-000 ; 9-800-000
TEMP: A2564 C.106
TITL: BIBLIOGRAPHY RADIATION PHYSICS (U), 108 P., (SRD)

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copy: 1 id: 48448-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15218
AUTH: TCHEN C.
CLSS: U
CONN: F 30602 69 C 0031
CORP: CITY COLLEGE RESEARCH FOUNDATION OF THE CITY COLLEGE OF NEW YORK
(NEW YORK, N.Y.)
DATE: 7106
DESC: Plasma Physics MHD fusion L5
DESC: Radiation Transport plasma L5
DESC: THEORY SUMMARY
REPN: RADC TR 71 226
SUJO: 9-500-000 ; 9-660-000
TITL: COLLISIONAL PLASMA TURBULENCE DRIVEN BY ATMOSPHERIC MOTIONS (U), 25
P., (U)

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15218
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copy: 1 id: 48455-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15219
AUTH: TCHEN C.
CLSS: U
CONN: F 30602 69 C 0031
CORP: CITY COLLEGE RESEARCH FOUNDATION OOF THE CITY COLLEGE OF NEW YORK
(NEW YORK, N.Y.)
DATE: 7209
DESC: Radiation Transport plasma L1
DESC: SUMMARY
DESC: Plasma Physics MHD fusion L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
REPN: RADC TR 72 279 VOL. 3
SUJO: 2-211-000 ; 9-500-000 ; 9-660-000
TITL: TURBULENT MOTIONS IN AN ARTIFICIAL PLASMA INHOMOGENEITY RELEASED IN
THE IONOSPHERE (U), 7 P., (U)

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15219
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copy: 1 id: 48456-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15220
AUTH: TCHEN C.
CLSS: U
CONN: F 30602 69 C 0031
CORP: CITY COLLEGE RESEARCH FOUNDATION OF THE CITY COLLEGE OF NEW YORK
(NEW YORK, N.Y.)
DATE: 7209
DESC: SUMMARY
DESC: Radiation Transport plasma L1
DESC: Plasma Physics MHD fusion L1
REPN: RADC TR 72 279 VOL. 2
SUJO: 9-500-000 ; 9-660-000
TITL: SPECTRAL DISTRIBUTIONS OF TURBULENCE IN AN INHOMOGENEOUS PLASMA (U),
13 P., (U)

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copy: 1 id: 48457-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 15225
ADNO: 524490
AUTH: TRAUTMAN M.A.
CLSS: S
CONN: DA 49 146 XZ 517
CORP: TELEDYNE ISOTOPES, INC. (WESTWOOD, N.J.)
DATE: 7210
DESC: test instruments nuclear radiation gamma L5
DESC: nuclear test detection mercury analysis subsurface gas L1
DESC: SUMMARY
REPN: IWL 1300 244
SUJO: 4-341-000 ; 4-910-400
TEMP: A3012
TITL: PROJECT PINOCCHIO (U), 134 P., (S)

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copy: 1 id: 48461-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15251
ADNO: 524477L
AUTH: GRIFF N.
CLSS: C
CORP: NAVAL ORDNANCE LAB. (SILVER SPRING, MD.)
DATE: 7210
DESC: Nuclear Weapon Effects ship systems surface ships L1
DESC: THEORY TABULAR
EFFT: THERMAL ; AIR-BLAST
REPN: NOLTR 72 139
TSHO: LOW-ALT
SUJO: 3-122-000
TEMP: A3025
TITL: THERMAL RADIATION AND AIRBLAST EXPOSURES FOR NUCLEAR WARFARE
VULNERABILITY AND HARDENING STUDIES OF SHIPBOARD STRUCTURES (U), 112
P., (C)

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15251

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copy: 1 id: 48484-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15256
ADNO: 523260
AUTH: KULANDER J.L. ; MEYEROTT R.E. ; BENSON R.S. ; CHURCHILL D.R.

CLSS: C 3
CONN: F 19628 71 C 0184
CORP: LOCKHEED PALO ALTO RESEARCH LAB. (PALO ALTO, CA.)
DATE: 7205
DESC: Nuclear Weapon Environment Ultraviolet Output source strength total
intensity L1
DESC: THEORY SUMMARY
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1
DESC: Nuclear Weapon Environment Visible Output rate L1
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence L1 N2 PLUS
DESC: Nuclear Weapon Environment Ultraviolet Output rate L1
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L5 SUMMARY OF OPTICAL DATA
DESC: Nuclear Weapon Environment Visible Output source strength total
intensity L1
REPN: LMSC D009331 ; SCI. REPT. 1 ; AFCRL 72 0333
SHOT: CHECKMATE
TSHO: HI-ALT
SUJO: 1-410-000 ; 1-440-000 ; 1-510-000 ; 1-540-000 ; 2-160-000 ;
2-214-000 ; 4-820-600
TEMP: A2948
TITL: CHECKMATE VISIBLE RADIATION STUDY (U), 120 P., (C)

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copy: 1 id: 48487-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15265
ADNO: 728091
AUTH: BOTTINO P.J. ; SPARROW A.H.
CLSS: U
CONN: DAHC 20 69 C 0167
CORP: BROOKHAVEN NATIONAL LAB. (UPTON, N.Y.)
DATE: 7104
DESC: SUMMARY
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic external
L1 CESIUM 137 EXPOSURE SURVIVAL RATES
EFFT: GAMMA ; OTHER ; FALLOUT
REPN: BNL 14994
SUJO: 3-332-210
TITL: EFFECTS OF EXPOSURE TIME AND RATE ON THE SURVIVAL AND YIELD OF
LETTUCE, BARLEY AND WHEAT (U), 10 P., (U)

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15265

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copy: 1 id: 48491-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15300
AUTH: SWENSON L.V. ; HYDE H.L.
CLSS: U
CCDE: SECURE
CORP: AUTONETICS (ANAHEIM, CA.)
DATE: 7200
DESC: Nuclear Weapon Effects flight systems balloons airships L1
DESC: CODE
EFFT: TREE
REPN: X72 374/501
SUJO: 3-119-000
TITL: SECURE (SYSTEMS EVALUATION CODE UNDER RADIATION ENVIRONMENT) (U), 25
P., (U)
TREE: 330

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copy: 1 id: 48529-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15319
AUTH: MASKEWITZ B.F.
CLSS: U
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN.)
DATE: 7208
DESC: Radiation Transport gamma L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
DESC: Cross Sections neutron L1
DESC: RSIC CODE BIBLIOGRAPHY ; TABULAR BIBLIOGRAPHY
DESC: Radiation Transport electron L1
DESC: Radiation Transport neutron L1
DESC: Cross Sections gamma L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
REPN: ORNL RSIC 13 VOL. 3
SUJO: 2-223-200 ; 3-312-220 ; 9-620-000 ; 9-650-000 ; 9-680-000 ;
9-820-000 ; 9-830-000
TITL: ABSTRACTS OF DIGITAL COMPUTER CODE PACKAGES ASSEMBLED BY THE
RADIATION SHIELDING INFORMATION CENTER (U), CA. 200 P., (U)
TREE: 150 ; 411 ; 412

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copy: 1 id: 48543-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15345
AUTH: GEHMAN S.E. ; HOLMES A.B.
CLSS: SRD 1
CCDE: VANDAL F
CORP: HARRY DIAMOND LABS. (WASH., D.C.)
DATE: 7211
DESC: EXPERIMENTAL SUMMARY
DESC: Nuclear Weapon Effects electrical mechanical fluidic devices L1 TWO
STAGE AMPLIFIER TIMERS GENERATORS
EFFT: X-RAY
REPN: HDL TR 1616
SHOT: DIAGONAL LINE
TSHO: UG-CONTAINED
SUJO: 3-234-000
TEMP: A3373
TITL: NUCLEAR WEAPONS RADIATION EFFECTS ON FLUIDIC SYSTEMS (U), 58 P.,
(SRD)
TREE: 350

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copy: 1 id: 48568-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15410
AUTH: HINRICHS C.K.
CLSS: C
CONN: DNA 001 72 C 0143
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA.)
DATE: 7212
DESC: Nuclear Test Simulation Field Programs experiment design rocket
probe sounding rocket descriptions balloons L1 BLACK BRANT 5C ROCKET
HIRIS PAYLOAD
DESC: HAES
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1
REPN: EGU TN 1928 A2
SUJO: 4-820-600 ; 4-820-900
TEMP: A3380
TITL: MEASUREMENTS OF AURORAL INFRARED EMISSIONS WITH A HIGH RESOLUTION
INTERFEROMETER SPECTROMETER (HIRIS) (U), 14 P., (C)

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copy: 1 id: 48618-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15421

AUTH: KIVEL B. ; LINSON L.M. ; WEYL G.M.
CLSS: U
CONN: F 30602 71 C 0067
CORP: AVCO EVERETT RESEARCH LAB. (EVERETT MA.)
DATE: 7210
DESC: Radiation Transport L5 MONTE CARLO CALCULATIONS
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1 PEAK ELECTRON CONTENT
DESC: SIMULATION (BARIUM CLOUD) SECEDE ; SUMMARY
REPN: RADC TR 72 336 VOL. 1
SUJO: 2-211-000 ; 2-212-000 ; 9-600-000
TITL: ANALYSIS OF BARIUM CLOUDS, VOL. 1 (U), 199 P., (U)

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copy: 1 id: 48624-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15427
ADNO: 752553
AUTH: MURPHY H.M.
CLSS: U
CCDE: SMAUG
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, N.M.)
DATE: 7211
DESC: MAIN INTEGRAL SCALING MONTE CARLO ; CODE SUMMARY
DESC: Radiation Transport gamma L1 PROMPT AND SECONDARY
DESC: Radiation Transport neutron L1
REPN: AFWL TR 72 7
SUJO: 9-620-000 ; 9-650-000
TITL: SMAUG, A COMPUTER CODE TO CALCULATE THE NEUTRON AND GAMMA PROMPT
DOSE ENVIRONMENT IN THE VICINITY OF AN ATMOSPHERIC NUCLEAR
DETONATION (U), 105 P., (U)

TREE: 960 ; 970

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copy: 1 id: 48628-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15445
AUTH: JOKI E.G. ; EVANS J.E. ; MCCORMAC B.M.
CLSS: S 1
CCDE: WOE
CONN: DAHC 60 70 C 0081
CORP: LOCKHEED MISSILES AND SPACE CO., PALO ALTO RESEARCH LAB. (PALO ALTO,

CA.)

DATE: 7105
DESC: Emission Spectra of the Atmosphere L1 AURORAS
DESC: test instruments IR L5
DESC: INFRARED EMISSIONS ; THEORY EXPERIMENTAL
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1
REPN: LMSC B290077
SHOT: STARFISH ; BLUEGILL
TSHO: HI-ALT
SUJO: 4-383-000 ; 4-820-600 ; 5-600-000
TEMP: 79088
TITL: NUCLEAR INTERFERENCE-AURORAL EXPERIMENT DEFINITION; FINAL REPORT PT.
2 (U), 80 P., (S)

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copy: 1 id: 48643-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15462
AUTH: BOMKE H.A. ; HARRIS A.K.
CLSS: U
CORP: ARMY ELECTRONICS COMMAND (FT. MONMOUTH, N.J.)
DATE: 7212
DESC: THEORY EXPERIMENTAL
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
REPN: ECOM 4066
SUJO: 5-800-000
TITL: INVESTIGATION OF THE DIURNAL GEOMAGNETIC VARIATION (U), 80 P., (U)

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copy: 1 id: 48656-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15513
ABS: Results of an evaluation of criteria for safe escape from nuclear
effects by A-7E aircraft employing the loft-delivery mode are
presented. Sources for derived flight profile and weapon ballistics
are defined and curves depicting aircraft position at detonation
time for various loft release angles are shown. Position data are
correlated with ranges at which various nuclear effects occur to
define limiting values for safe escape from a nuclear detonation.
Conclusions and recommendations based on this evaluation are
included.

ADNO: 524016L

AUTH: FRANKLIN M.E. ; LANGDON L.L.
CLSS: SFRD
CORP: NAVAL WEAPONS EVALUATION FACILITY (ALBUQUERQUE, N.M.)
DATE: 7212
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L9
DESC: Nuclear Weapon Effects aerospace systems L5
DESC: Nuclear Weapon Effects on animals thermal burns heating L9
DESC: Target Analysis system studies aircraft L1
EFFT: THERMAL ; AIR-BLAST
REPN: NWEF 1093
SUJO: 3-110-000 ; 3-312-100 ; 3-313-100 ; 3-431-100
SYST: A-7E AIRCRAFT
TEMP: A3535
TITL: SAFE-ESCAPE CONSIDERATIONS FOR A-7E AIRCRAFT (U), 33 P., (SFRD)
TNFF: 5820

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copy: 1 id: 48699-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15581
ADNO: 907550
AUTH: KAZI A.H. ; WATSON J.L.
CLSS: U
CORP: BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD.)
DATE: 7208
DESC: SIMULATION (PULSED REACTOR)
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1 APRFR
REPN: BRL MR 2217
SUJO: 4-241-000
TITL: NUCLEAR ENGINEERING PROBLEMS OF A BURNING ROCKET MOTOR NEUTRON
IRRADIATION (U), 56 P., (U)

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copy: 1 id: 48758-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15712
AUTH: FLANAGAN T.M. ; LEADON R.E.
CLSS: U
CCDE: PN
CONN: T+M 2299 A
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7104
DESC: SIMULATION (LINAC FLASH X-RAY) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 TA CAPACITORS
EFFT: TREE
REPN: GULF RT 10609
SUJO: 3-229-000
TITL: EFFECTS OF IONIZING RADIATION ON TANTALUM CAPACITORS, SUMMARY
REPORT, PART 1 (U), 75 P., (U)
TREE: 370

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15712
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copy: 1 id: 48860-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15764
ADNO: 907898L
AUTH: SCHEIWE J.P. ; PFEIFER R.J. ; PERLEY W.B.
CLSS: U
CCDE: DELFIC
CORP: INDUSTRIAL NUCLEONICS CORP., FEDERAL SYSTEMS DIV. (COLUMBUS, OH.)
DATE: 7112
DESC: Nuclear Weapon Environment radiation decay L1
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: Nuclear Weapon Effects aerospace systems L1 DEPOSITION ON AIRCRAFT
DESC: nuclear test detection debris fallout L1 DOSE-RATE MEASUREMENTS
DESC: Nuclear Weapon Environment fallout Deposition L1
DESC: THEORY
EFFT: FALLOUT
REPN: ACR 0001 ; AFFDL TR 71 120
SHOT: FRENCH (70-05-15) ; FRENCH (70-05-30) ; FRENCH (70-06-24) ; FRENCH
(70-07-03) ; FRENCH (70-08-02) ; FRENCH (70-08-06)
TSHO: LOW-ALT
SUJO: 2-223-200 ; 2-223-400 ; 2-225-000 ; 3-110-000 ; 4-919-000
TITL: STUDY TO DETERMINE THE AIRCRAFT RADIOACTIVE CONTAMINATION DUE TO
ATMOSPHERIC RADIATION ENVIRONMENTS (U), 67 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15770
ADNO: 523100L
AUTH: FRANK B.V.
CLSS: SRD
CCDE: ELTRAN
CORP: PICATINNY ARSENAL (DOVER, NJ)
DATE: 7210

DESC: Simulation Facilities Techniques TREE L1 ELECTRON ENERGY SPECTRUM
FOR HDL FX-45

DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1
EED

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1 HUDSON
SEAL MINT LEAF

EFFT: TREE

REPN: PA TR 4421

SHOT: HUDSON SEAL ; MINT LEAF ; DIAMOND SCULLS

SUJO: 1-620-000 ; 3-162-000 ; 4-272-000

TEMP: A6611

TITL: INITIATION MECHANISMS OF ELECTROEXPLOSIVE DEVICES DUE TO RADIATION
EXPOSURE (U), 96 P., (SRD)

TREE: 394

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INUM: 15772

AUTH: TCHEN C.M.

CLSS: U

CONN: F 30602 69 C 0031

CORP: CITY COLLEGE RESEARCH FOUNDATION OF THE CITY COLLEGE OF NEW YORK
(NEW YORK, NY)

DATE: 7209

DESC: THEORY

DESC: Radiation Transport plasma L1

REPN: RADC TR 72 279 VOL. 1

SUJO: 9-660-000

TITL: REPEATED CASCADE THEORY OF TURBULENCE IN AN INHOMOGENEOUS PLASMA
(U), 72 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 15773

ADNO: 751568

AUTH: VESECKY J.F.

CLSS: U

CONN: N 00017 72 C 0402

CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA.)

DATE: 7210

DESC: radio microwave propagation in the ionosphere L1 ULF AND VLF

COMMUNICATIONS

DESC: THEORY SUMMARY

DESC: Nuclear RDT&E Research Program Descriptions EM propagation
atmospheric chemistry L1

DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L5

REPN: SRI PROJ. 1840

SUJO: 4-120-000 ; 5-730-000 ; 5-800-000

TITL: REVIEW OF THE MAGNETOSPHERIC WAVE-PARTICLE INTERACTION WORKSHOP HELD
AT STANFORD RESEARCH INSTITUTE, MENLO PARK, CALIFORNIA, 11-13 MAY
1972 (U), 72 P., (U)

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copy: 1 id: 48916-1001 library: DOCUMENT price: \$.00

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created: 12/27/1991 type: REPORT permanent

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INUM: 15779

ADNO: 524771

AUTH: PARTAK J.E. ; SMITH R.A.

CLSS: SRD

CORP: NAVAL ORDNANCE LAB. (SILVER SPRING, MD.)

DATE: 7108

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 SCR-S

DESC: SIMULATION (FLASH X-RAY REACTOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1 FUZE FIRING DESTRUCT LOGIC CIRCUITS

DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1
FUZE FIRING CIRCUIT

DESC: Nuclear Weapon Effects reentry systems RV electronics L1

EFFT: TREE

REPN: NOLTR 71 167

SUJO: 3-113-300 ; 3-162-000 ; 3-219-000 ; 3-221-000

TEMP: A3784

TITL: NEUTRON AND GAMMA RADIATION VULNERABILITY OF THE STANDARD MISSILE
BLOCK IV FIRING AND DESTRUCT LOGIC CIRCUITS (U), 23 P., (SRD)

TREE: 392

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created: 12/27/1991 type: REPORT permanent

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INUM: 15799

ABS: Present development requirements for the Marine Corps in the nuclear
and chemical warfare and biological defense functional areas rest
basically upon: (1) the nuclear, biological, and chemical threats

expected in the mid-and long-range periods, and (2) the present state of technical knowledge available for advancing Marine Corps capabilities in these areas. This analysis reviews (1) the current threat information, (2) the expected scope of nuclear and chemical warfare applications in future Marine Corps amphibious operations, (3) success criteria, and (4) recommendations for revision of the current general operational requirement on nuclear and chemical warfare and biological defense and suggested hardware projects.

ADNO: 524472
AUTH: MEREDITH O.M.
CLSS: S
CORP: NAVAL ORDNANCE LAB. (SILVER SPRING, MD.)
DATE: 7211
DESC: SURVEY
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear radiation transport L1
REPN: NOLTR 72 258
SUJO: 4-140-000
TEMP: A3533
TITL: ANALYSIS OF MARINE CORPS NUCLEAR AND CHEMICAL WARFARE AND BIOLOGICAL DEFENSE REQUIREMENTS (U), 38 P., (S)
TNFF: 5500

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created: 12/27/1991 type: REPORT permanent
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INUM: 15807
AUTH: HANKS C.L. ; HAMMAN D.J.
CLSS: U
CONN: NASW 1568
CORP: BATTELLE MEMORIAL INSTITUTE, RADIATION EFFECTS INFORMATION CENTER (COLUMBUS, OH.)
DATE: 7107
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes silicon-controlled rectifiers L1 DIODES SCR-S SCS-S
DESC: HANDBOOK
EFFT: TREE
REPN: NASA CR 1785
SUJO: 3-221-000
TITL: RADIATION EFFECTS DESIGN HANDBOOK; SECTION 1, SEMICONDUCTOR DIODES (U), 40 P., (U)
TREE: 310 ; 430

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created: 12/27/1991 type: REPORT permanent

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INUM: 15814P1.7-1
CLSS: SRD
CORP: GULF RADIATION TECHNOLOGY
DATE: 7209
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1
EFFT: GAMMA
SUJO: 3-133-000
SYMJ: NUCLEAR EFFECTS ON OPTICS TECHNICAL BRIEFING
TITL: DETECTOR RADIATION DAMAGE EFFECTS (U), 15 P., (SRD)
TREE: 361

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15814P1.7-1

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created: 12/27/1991 type: REPORT permanent

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INUM: 15814P1.10-1
AUTH: DAVIDSON G.
CLSS: SRD
CORP: AMERICAN SCIENCE + ENGINEERING, INC. (CAMBRIDGE, MA.)
DATE: 7209
DESC: SUMMARY
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1
EFFT: X-RAY
SUJO: 3-133-000
SYMJ: NUCLEAR EFFECTS ON OPTICS TECHNICAL BRIEFING
TITL: THERMAL RADIATION VULNERABILITY OF AN OPTICAL SENSOR FOCAL PLANE
(U), 11 P., (SRD)

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15814P1.10-1

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15814P2.1-3
AUTH: HOFMANN J.A.
CLSS: SRD
CORP: ARMY MATERIALS AND MECHANICS RESEARCH CENTER
DATE: 7209
DESC: Nuclear RDT&E Research Program Descriptions integrated effects
system studies L1
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1

DESC: SUMMARY
EFFT: NEUTRON ; GAMMA
SUJO: 3-133-000 ; 4-160-000
SYMJ: NUCLEAR EFFECTS ON OPTICS TECHNICAL BRIEFING
TITL: NUCLEAR RADIATION EFFECTS ON OPTICS (U), 7 P., (SRD)
TREE: 361

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15814P2.1-3

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15814P2.5-1
CLSS: SRD
CORP: GULF RADIATION TECHNOLOGY
DATE: 7209
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1

DESC: SUMMARY
EFFT: GAMMA
SUJO: 3-133-000
SYMJ: NUCLEAR EFFECTS ON OPTICS TECHNICAL BRIEFING
TITL: LUMINESCENCE IN PHOTODETECTOR SUBSTRATES (U), 13 P., (SRD)
TREE: 361

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15814P2.5-1

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15814P3.2-1
CLSS: SRD
CORP: TRW SYSTEMS GROUP
DATE: 7209
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1

DESC: SUMMARY
EFFT: TREE
SUJO: 3-133-000
SYMJ: NUCLEAR EFFECTS ON OPTICS TECHNICAL BRIEFING
TITL: TRANSIENT RADIATION EFFECTS IN TRANSPARENT INFRARED MATERIALS (U),
23 P., (SRD)
TREE: 361

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15814P3.2-1

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copy: 1 id: 48963-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15814P3.3-1
CLSS: SRD
CORP: GULF RADIATION TECHNOLOGY
DATE: 7209
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1
DESC: SUMMARY
EFFT: X-RAY
SUJO: 3-133-000
SYMJ: NUCLEAR EFFECTS ON OPTICS TECHNICAL BRIEFING
TITL: NUCLEAR VULNERABILITY ASSESSMENT OF SENSOR COMPONENTS (U), 36 P.,
(SRD)
TREE: 361

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15814P3.3-1

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15827
ADNO: 526477L
AUTH: STAHL R.H.
CLSS: SRD
CONN: DAAG 39 71 C 003
CORP: SYSTEMS, SCIENCE AND SOFTWARE (LA JOLLA, CA.)
DATE: 7208
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L5
DESC: Nuclear Weapon Effects missile systems strategic electronics L1
DESC: THERMOMECHANICAL DAMAGE ; SURVEY
EFFT: TREE
REPN: HDL TR 003 1 ; 3SCR 1097
SHOT: DISTANT MIST ; MIDI MIST ; NATIVE MIST ; DORSAL FIN ; MILK SHAKE ;
MINUTE STEAK ; SCREAMER ; TAPESTRY ; HUPMOBILE ; HUDSON SEAL ;
CYPRESS
TSHO: UG-CONTAINED
SUJO: 1-620-000 ; 3-112-130 ; 3-221-000 ; 3-222-000
TEMP: A3977
TITL: COMPILATION OF FIELD TEST DATA ON RADIATION FAILURE IN SEMICONDUCTOR
DEVICES--DATA THROUGH MINUTE STEAK (U), 350 P., (SRD)
TREE: 310 ; 320

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15827
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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15835
AUTH: REICHLER D.E. ; NELSON D.J. ; DUNAWAY P.B.
CLSS: U
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN.)
DATE: 7107
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
REPN: ORNL NSIC 89
SUJO: 3-312-220
TITL: BIOLOGICAL CONCENTRATION AND TURNOVER OF RADIONUCLIDES IN FOOD
CHAINS-A BIBLIOGRAPHY (U), 42 P., (U)

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15835
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copy: 1 id: 48983-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15884
ADNO: 757491
AUTH: FANTE R.L.
CLSS: U
CORP: AIR FORCE CAMBRIDGE RESEARCH LABS. (BEDFORD, MA.)
DATE: 7212
DESC: Radiation Transport L1
DESC: Electromagnetic Theory Applications L1
DESC: THEORY
REPN: AFCRL 72 0733 ; PSRP 519
SUJO: 9-300-000 ; 9-600-000
TITL: PROPAGATION OF ELECTROMAGNETIC WAVES THROUGH TURBULENT MEDIA USING
TRANSPORT THEORY (U), 47 P., (U)

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copy: 1 id: 49028-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 15901
AUTH: PHILLIPS G.A.
CLSS: SRD
CONN: F 04701 70 C 0137
CORP: BOEING CO. (SEATTLE, WASH.)
DATE: 7109

DESC: SURVEY
DESC: Nuclear Test Simulation Field Programs experiment design x-ray
experiments L1
DESC: Nuclear Test Simulation Field Programs experiment design materials
L1 LEDC CCMDP PSRE LEAD AZIDE QUARTZ GAGE RDX
REPN: D2 19748 1
SHOT: DIAMOND SCULLS
TSHO: UG-CONTAINED
SUJO: 4-820-500 ; 4-829-600
TEMP: A3939
TITL: PROGRAM PLAN--CONDUCT SPECIAL RADIATION TEST NO. 3 OF SELECTED
COMPONENTS (U), 90 P., (SRD)

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15901

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copy: 1 id: 49044-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15909
ADNO: 907950L
CLSS: U
CCDE: CIRCUS II ; NET II ; SCEPTRE ; TRAC
CONN: F 33657 72 C 0228
CORP: CORNELL AERONAUTICAL LABS., INC. (BUFFALO, N.Y.)
DATE: 7206
DESC: Nuclear Weapon Effects electronic pieceparts L5
DESC: SURVEY
EFFT: TREE
REPN: UM 3025 D 20
SUJO: 3-220-000
TITL: GENERAL COMMENTS ON NUCLEAR RADIATION HARDENING FOR THE SCAD (U), 30
P., (U)

TREE: 392

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15945
ADNO: 760168
AUTH: ARCHAMBEAU C.B.
CLSS: U
CONN: F 44620 69 C 0067
CORP: CALIFORNIA INSTITUTE OF TECHNOLOGY (PASADENA, CA.)
DATE: 7200
DESC: SUMMARY
DESC: Nuclear Weapon Environment Ground Shock seismic measurements L1

DESC: Seismology L9 FALLON EARTHQUAKE
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L5
LONG RANGE OBSERVATION
DESC: nuclear test detection seismic detection L5
REPN: AFOSR TR 73 0790
SHOT: BILBY ; SHOAL ; SALMON
TSHO: UG-CONTAINED
SUJO: 2-620-300 ; 2-623-000 ; 4-910-100 ; 6-100-000
TITL: THEORY OF STRESS WAVE RADIATION FROM EXPLOSIONS IN PRESTRESSED MEDIA
(U), 40 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15980
ADNO: 904969L
AUTH: HOBBS N.P. ; WETMORE K.R. ; WALSH J.P.
CLSS: U
CCDE: TRAP ; SPUTTER
CONN: F 29601 70 C 0085
CORP: KAMAN AVIDYNE (VURLINGTON, MA.)
DATE: 7210
DESC: Nuclear Weapon Effects aerospace systems L1
DESC: CODE
EFFT: THERMAL
REPN: AFWL TR 71 61 VOL. 1 ; KA TR 71 61 VOL. 1
TSHO: SURFACE ; LOW-ALT
SUJO: 3-110-000
TITL: TRAPP--A DIGITAL COMPUTER PROGRAM FOR CALCULATING THE RESPONSE OF
AIRCRAFT TO THE THERMAL RADIATION FROM A NUCLEAR EXPLOSION; VOL. 1,
THEORY AND PROGRAM DESCRIPTION (U), 350 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15984
ADNO: 525320
AUTH: CHAMBERLAIN J.W.
CLSS: S
CONN: DAHC 15 67 C 0011
CORP: INSTITUTE FOR DEFENSE ANALYSES (ARLINGTON, VA.)
DATE: 7208
DESC: SATELLITE OBSERVATION
DESC: Nuclear Weapon Environment Infrared Output source strength total

intensity L5

DESC: nuclear test detection infrared detection L5
DESC: Nuclear Weapon Effects Light scattering optical interference from
dust L1
REPN: IDA P 935
SHOT: CHINESE
TSHO: SURFACE ; LOW-ALT
SUJO: 1-310-000 ; 2-226-000 ; 4-910-500
TEMP: A4067
TITL: ON THE INFRARED RADIATION FOLLOWING A NUCLEAR BURST (U), 3 P., (S)

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copy: 1 id: 49102-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 15995

ABS: A computer program, KDFOC (K-Division : DNA fallout code), is presented for the calculation and contour -plotting of the gamma radiation fallout field produced by cratering and surface-burst nuclear explosions. Integrated exposure and exposure rate can be computed. Both fission products and radioactive nuclides produced by neutron capture are considered. The program is described in detail? this includes the mathematical model, input data generation, verification against test results, FORTRAN listing, and flow diagrams of the code. This report is intended to serve as users manual for the code, and it has been prepared with this objective in mind.

AUTH: KNOX J.B. ; GIBSON T.A. JR. ; LAWSON L.A.
CLSS: SRD CNWDI
CCDE: KDFOC
CONN: W 7405 ENG 48
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA.)
DATE: 7206
DESC: CODE SUMMARY
DESC: Nuclear Weapon Environment Fallout Radioproperties L1
DESC: Nuclear Weapon Environment fallout Deposition L1
DESC: Nuclear Weapon Phenomenology cloud Motion L1
REPN: UCRL 51179
SHOT: ESS ; SEDAN ; SCHOONER ; DANNY BOY ; CABRIOLET ; BUGGY ; JANGLE ;
LITTLE FELLER II ; JOHNIE BOY
TSHO: SURFACE ; UG-VENTED
SUJO: 2-223-000 ; 2-224-000 ; 2-225-000
TEMP: A4051
TITL: KDFOC--A COMPUTER PROGRAM TO CALCULATE FALLOUT FROM UNDERGROUND AND
LAND SURFACE NUCLEAR EXPLOSIONS (U), 336 P., (SRD CNWDI)

TNFF: 4860

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16114
ADNO: 761265
AUTH: LAMBERT D.G. ; FLINN E.A. ; ARCHAMBEAU C.B.
CLSS: U
CORP: CALIFORNIA INSTITUTE OF TECHNOLOGY
DATE: 7205
DESC: LOVE WAVE AMPLITUDE RAYLEIGH WAVE AMPLITUDE ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Ground Shock seismic measurements L1
FALLON EARTHQUAKE AND UNDERGROUND EXPLOSION COMPARISONS
REPN: AFOSR TR 73 1001
SHOT: BILBY ; SHOAL
TSHO: UG-CONTAINED
SUJO: 2-620-300
TITL: COMPARATIVE STUDY OF THE ELASTIC WAVE RADIATION FROM EARTHQUAKES AND
UNDERGROUND EXPLOSIONS (U), 30 P., (U)

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16114

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16128
ADNO: 760345
AUTH: MOONEY L.G.
CLSS: U
CONN: DAHC 20 72 C 0123
CORP: RADIATION RESEARCH ASSOCIATES (FT. WORTH, TX.)
DATE: 7212
DESC: Cross Sections neutron L1
DESC: Cross Sections gamma L1
DESC: SURVEY
DESC: Nuclear Weapon Effects structures aboveground buildings L1
EFFT: NEUTRON ; GAMMA
REPN: RRA T7211
SUJO: 3-251-000 ; 9-820-000 ; 9-830-000
TITL: RADIATION DISTRIBUTIONS FOR SHIELDING CALCULATIONS (U), 45 P., (U)
TREE: 411 ; 412

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16145
ADNO: 523079L
AUTH: MICHEL W.E. ; BERGGREN C.C. ; SMITH E.G. ; DUNCAN E.C. ; DOWNING K.
CLSS: SRD
CONN: AF 33615 70 C 1710
CORP: HUGHES AIRCRAFT CO. (EL SEGUNDO, CA.)
DATE: 7211
DESC: Nuclear Weapon Effects space systems spacecraft or satellites
electronics L1
DESC: THEORY EXPERIMENTAL
EFFT: TREE
REPN: SCG 20421R ; AFAPL TR 72 60 SUPPL. 1
TSHO: HI-ALT ; MULTIPLE
SUJO: 3-114-300
TEMP: A3942
TITL: LOW EARTH ORBIT BATTERY DEVELOPMENT PROJECT; SUPPLEMENT 1, RADIATION
HARDNESS ANALYSIS (U), 32 P., (SRD)
TREE: 393 ; 387

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copy: 1 id: 49220-1001 library: DOCUMENT price: \$.00

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created: 12/27/1991 type: REPORT permanent

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INUM: 16478
ADNO: 525701L
CLSS: SRD
CONN: N 60921 71 C 0102
CORP: BRADDOCK, DUNN AND MCDONALD, INC. (ALBUQUERQUE, N.M.)
DATE: 7205
DESC: Nuclear Weapon Effects flight systems airplanes L1
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
DESC: THEORY TABULAR
EFFT: NEUTRON ; EMP ; THERMAL ; AIR-BLAST
EMPF: 375 ; 341
REPN: BDM/A 95 72 TR
SUJO: 3-111-000 ; 3-312-100
SYST: A-6 AIRCRAFT
TEMP: A4358 VOL. 2
TITL: A-6 WEAPON SYSTEM VULNERABILITY ANALYSIS--APPENDICES (U), 373 P.,
(SRD)
TREE: 398

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copy: 1 id: 49428-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16642
AUTH: PELTZER D.L. ; BERRY R.L.
CLSS: U
CCDE: ZZ (JFET DATA)
CONN: F 19628 69 C 0240
CORP: FAIRCHILD CAMERA AND INSTRUMENT CORP. (PALO ALTO, CA.)
DATE: 7109
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
JFET I-C SOURCE COUPLED LOGIC GATE (SCHMITT TRIGGER)
EFFT: TREE
REPN: AFCRL 71 0395
SUJO: 3-222-000
TITL: THEORETICAL AND EXPERIMENTAL STUDY OF USE OF JUNCTION FET DIGITAL
INTEGRATED CIRCUITS IN RADIATION ENVIRONMENTS (U), 38 P., (U)
TREE: 320

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16642
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copy: 1 id: 49549-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 16665
AUTH: ANDERSON W.A.
CLSS: U
CCDE: DIODRAD
CORP: RUTGERS UNIVERSITY (NEW BRUNSWICK, N.J.)
DATE: 7202
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 IMPATT DIODES
DESC: THEORY
EFFT: TREE
SUJO: 3-221-000
TITL: COMPUTER STUDIES OF RADIATION EFFECTS IN AVALANCHE DIODES (U), 3 P.,
(U)

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16665
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copy: 1 id: 49571-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16682
ADNO: 526282L
AUTH: CHUBB G.P.
CLSS: C
CORP: AIR FORCE SPECIAL WEAPONS CENTER (KIRTLAND AFB, N.M.)
DATE: 7103
DESC: Nuclear Weapon Effects on animals thermal ocular effects L1

DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals thermal burns heating L1
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: GAMMA ; THERMAL
REPN: AFSWC TR 70 7 VOL. 8
SUJO: 3-312-100 ; 3-313-100 ; 3-313-200
SYST: F-106A
TEMP: A4538 VOL. 8
TITL: F-106A NUCLEAR VULNERABILITY ANALYSIS; VOL. 8, CREW EFFECTIVENESS
(U), 60 P., (C)

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16682
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copy: 1 id: 49583-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16692
AUTH: NOTTHOFF J.K.
CLSS: U
CORP: MCDONNELL DOUGLAS ASTRONAUTICS CO. (HUNTINGTON BEACH, CA.)
DATE: 7110
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
OPERATIONAL AMPLIFIERS
EFFT: TREE
REPN: MDC G2475
SUJO: 3-213-000
TITL: NEUTRON RADIATION RESPONSES OF MOTOROLA XCE1571 OPERATIONAL
AMPLIFIERS (U), 12 P., (U)

TREE: 369
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16692
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copy: 1 id: 49593-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16695
AUTH: NOTTHOFF J.K.
CLSS: U
CORP: MCDONNELL DOUGLAS ASTRONAUTICS CO. (HUNTINGTON BEACH, CA.)
DATE: 7110
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DUAL FLIP-FLOPS
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL
EFFT: TREE
REPN: MDC G2474
SUJO: 3-222-000
TITL: NEUTRON RADIATION RESPONSES OF MOTOROLA 54H79 DUAL TYPE-D FLIP-FLOPS

(U), 15 P., (U)

TREE: 320

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16695

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copy: 1 id: 49596-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16697

ADNO: 885822

AUTH: GEORGE W.L.

CLSS: U

CONN: F 19628 68 C 0141

CORP: MOTOROLA, INC. (PHOENIX, AZ.)

DATE: 7105

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1 DEVICE HARDENING DESCRIPTION JFET

EFFT: TREE

REPN: H 57 ; AFCRL 71 0298

SUJO: 3-221-000

TITL: RADIATION HARDENED JUNCTION FIELD EFFECT TRANSISTORS (U), 20 P., (U)

TREE: 310

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16697

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copy: 1 id: 49598-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 16729

ADNO: 521076L

CLSS: SFRD

CONN: F 04701 68 C 0035

CORP: AVCO GOVERNMENT PRODUCTS GROUP (WILMINGTON, MA.)

DATE: 7205

DESC: RADS III SIMULATION (FLYER) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects reentry systems RV structures L1 3DQP

FABRICATION MATERIAL PROPERTIES

REPN: AVMSD 0094 69 RR VOL. 11, BK. 1 ; SAMSO TR 71 204

SHOT: DIANA MIST ; MINT LEAF

TSHO: UG-CONTAINED

SUJO: 3-113-100

TEMP: A4559 VOL. 11, BK. 1

TITL: RADIATION DAMAGE STUDY PHASE III (RADS III) FINAL REPORT; VOL. 11,

3DQP MATERIAL CHARACTERIZATION, BOOK 1, 3DQP MATERIAL

CHARACTERIZATION (U), 112 P., (SFRD)

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16729

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copy: 1 id: 49623-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16730
ADNO: 521077L
CLSS: SRD CNWDI
CONN: F 04701 68 C 0035
CORP: AVCO GOVERNMENT PRODUCTS GROUP (WILMINGTON, MA.)
DATE: 7205
DESC: Nuclear Weapon Effects reentry systems RV structures L1 3DQP
DESC: RADS III DRIS
DESC: Nuclear Weapon Effects reentry systems RV materials antenna window

L5

EFFT: X-RAY ; THERMAL
REPN: AVMSD 0094 69 RR VOL. 11, BK. 2 ; SAMSO TR 71 204
SUJO: 3-113-100 ; 3-113-210
TEMP: A4559 VOL. 11, BK. 2
TITL: RADIATION DAMAGE STUDY PHASE III (RADS III) FINAL REPORT; VOL. 11,
3DQP MATERIAL CHARACTERIZATION, BOOK 2, ENVIRONMENTAL SIMULATION
TESTING (U), 296 P., (SRD CNWDI)

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16730

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copy: 1 id: 49624-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 16731
ADNO: 521078L
CLSS: SRD CNWDI
CONN: F 04701 68 C 0035
CORP: AVCO GOVERNMENT PRODUCTS GROUP (WILMINGTON, MA.)
DATE: 7205
DESC: Nuclear weapon test device physical operation construction geometry
materials components L5 SHAPE WEIGHT
DESC: RADS III ; SUMMARY
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L5
DESC: Nuclear Weapon Effects reentry systems RV structures L1 3DQP
INCLUDES RINGS, CYLINDERS AND NOSE TIPS
EFFT: X-RAY
REPN: AVMSD 0094 69 RR VOL. 11, BK. 3 ; SAMSO TR 71 204
SHOT: CYPRESS ; DIANA MIST ; SNUBBER ; MINT LEAF ; HUDSON MOON
SUJO: 1-620-000 ; 3-113-100 ; 4-836-000
TEMP: A4559 VOL. 11, BK. 3
TITL: RADIATION DAMAGE STUDY PHASE (RADS III) FINAL REPORT; VOL. 11, 3DQP
MATERIAL CHARACTERIZATION, BOOK 3, UNDERGROUND TESTING AND DESIGN
ANALYSIS (U), 254 P., (SRD CNWDI)

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16731
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copy: 1 id: 49625-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16732
ADNO: 521079L
CLSS: SRD CNWDI
CONN: F 04701 68 C 0035
CORP: AVCO GOVERNMENT PRODUCTS GROUP (WILMINGTON, MA.)
DATE: 7205
DESC: RADS III SIMULATION (FLYER)
DESC: Nuclear Weapon Effects reentry systems RV structures L1 3DQP
REPN: AVMSD 0094 69 RR VOL. 11, BK. 4 ; SAMSO TR 71 204
SHOT: DIANA MIST
TSHO: UG-CONTAINED
SUJO: 3-113-100
TEMP: A4559 VOL. 11, BK. 4
TITL: RADIATION DAMAGE STUDY PHASE III (RADS III) FINAL REPORT; VOL. 11,
3DQP MATERIAL CHARACTERIZATION, BOOK 4, APPENDIXES (U), 160 P., (SRD
CNWDI)

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copy: 1 id: 49626-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 16959
ADNO: 883490L
AUTH: BELL D.R.
CLSS: U
CONN: F 29601 69 C 0044
CORP: LOCKHEED MISSILES AND SPACE CO. (SUNNYVALE, CA.)
DATE: 7104
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
709 HYBRID 744 OPERATIONAL AMPLIFIERS
EFFT: TREE
REPN: AFWL TR 70 12 ADD. 1
SUJO: 3-213-000
TITL: RADIATION SCREENING TECHNIQUES FOR INTEGRATED CIRCUITS; ADDENDUM 1,
WAFER ANNEALING (U), 72 P., (U)
TREE: 320 ; 610

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16959
.endblock

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copy: 1 id: 49798-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17064
AUTH: ZINN J. ; KODIS J.W. ; SANDFORD M.T. ; HOERLIN H. ; HORAK H.G.
CLSS: SRD
CCDE: RADFLO [REDACTED] LASL
CONN: W 7405 ENG 36
CORP: LOS ALAMOS SCIENTIFIC LABS. (LOS ALAMOS, N.M.)
DATE: 7209
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1 TIME
RESOLVED SPECTRA FOR ENCINO ONLY THEORY AND DATA
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities L1 TEMPERATURE FOR ENCINO FROM RADFLO.
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1 REVIEW OF THERMAL MEASUREMENTS FOR MANY SHOTSAPPENDIX E
DESC: Nuclear Weapon Effects Light scattering optical interference from
dust L1 OPTICAL ABSORPTION OUTSIDE FIREBALL APPENDIX C CHORD
EXPERIMENTS
DESC: Nuclear Weapon Environment Visible Output rate L1 COMPUTED MAX AND
MIN TIMES COMPARED WITH DATA
REPN: LA 4995
SHOT: ENCINO ; ABLE (TS) ; DOG (TS) ; NAMBE ; TRUCKEE ; KING ; HARLEM ;
CHAMA ; YESO ; HOUSATONIC ; BAKER (TS) ; NECTAR ; FLATHEAD ; NAVAJO
TSHO: LOW-ALT
SUJO: 1-210-000 ; 1-420-000 ; 1-440-000 ; 2-130-000 ; 2-226-000
TEMP: A4847 ; D2293
TITL: RADIATION-HYDRODYNAMICS COMPUTATIONS FOR TEN SEA LEVEL TEST EVENTS
(U), 26 P., (SRD)
TNFF: 4845

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copy: 1 id: 49885-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 17122
ADNO: 914398
AUTH: GRUN E. ; KOSSYK R. ; LOERKE B. ; RENZ W.
CLSS: U
CCDE: RENS (CIRCUIT ANALYSIS) GERMAN
DATE: 7208
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1
DESC: REPORT IN GERMAN
EFFT: TREE
EMPF: 330
REPN: BMVG FBWT 73 20
SUJO: 3-219-000

TITL: EFFECT OF PULSED NUCLEAR RADIATION ON SIMULATED ELECTRONIC CIRCUITS;
VOL. 1, EDV-COMPUTER PROGRAM RENS (U), CA. 100 P., (U)

TREE: 330

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copy: 1 id: 49939-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17151

AUTH: MURPHY H.L.

CLSS: U

CCDE: ZZ (CALCULATES PRESSURE VS TIME IF ROOM EXPOSED TO BLAST WAVE
(PG-E-63))

CONN: DAHC 20 67 C 0136

CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA.)

DATE: 7107

DESC: Civil Defense shelters L1 BUILDING DESIGN AND STRUCTURE TO REDUCE
INTEGRATED NUCLEAR EFFECTS

DESC: Nuclear Weapon Effects structures aboveground buildings L1 FIRE
HAZARD PARAMETER AND BUILDING DESIGN COUNTERMEASURES ROOM FILLING
FROM AIRBLAST

DESC: Nuclear Weapon Effects structures aboveground components L1 BUILDING
DESIGN AND STRUCTURE TO REDUCE INTEGRATED NUCLEAR EFFECTS

DESC: REVISION OF DASIAC 12428 ; THEORY EXPERIMENTAL

DESC: Shielding Protection L5 REDUCTION OF RADIATION AND FALLOUT BY
BUILDING ENTRANCEWAYS

EFFT: INTEGRATED

TSHO: LOW-ALT

SUJO: 3-251-000 ; 3-251-100 ; 3-474-000 ; 9-800-000

TITL: FEASIBILITY STUDY OF SLANTING FOR COMBINED NUCLEAR WEAPONS EFFECTS
(REVISED); VOL. 2, APPENDICES (U), CA. 250 P., (U)

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copy: 1 id: 49965-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 17178

ADNO: 915373L

AUTH: ABBOTT L.S.

CLSS: U

CORP: ARMY ENGINEER WATERWAYS EXPERIMENT STATION (VICKSBURG, MS.)

DATE: 7212

DESC: Nuclear Weapon Effects structures hard launch sites structures L1

EFFT: NEUTRON ; GAMMA

REPN: AEWES TR M 72 12 CHAP. 6

SUJO: 3-116-100

TITL: ASSESSMENT OF THE STATE-OF-THE-ART FOR VULNERABILITY AND HARDNESS
ANALYSIS OF BALLISTIC MISSILE DEFENSE FACILITIES; CHAPTER 6, NUCLEAR
RADIATION (U), 173 P., (U)

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copy: 1 id: 49979-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 17249

AUTH: SCRIVNER G.J. ; MANGAN D.L.

CLSS: U

CCDE: ZZ (IEMP COUPLING TO CYLINDER) SLA

CORP: SANDIA LABS. (ALBUQUERQUE, N.M.)

DATE: 7206

DESC: SIMULATION (CURRENT INJECTION) ; THEORY TABULAR

DESC: Nuclear Weapon Effects missile systems L1

EFFT: IEMP

EMPF: 391

REPN: SC RR 72 0165

SUJO: 3-112-000

TITL: ON THE ADEQUACY OF A STRAIGHTFORWARD PERTURBATION EXPANSION FOR
ESTIMATING THE ELECTROMAGNETIC RESPONSE WITHIN A LOSSY DIELECTRIC
CYLINDER EXCITED BY A RADIATION PULSE (U), 73 P., (U)

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copy: 1 id: 50033-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17269

ABS: An extensive empirical and analytical investigation of the
contamination accumulated by aircraft flying through nuclear debris
clouds indicates that, for most operational circumstances, the
contamination does not interfere with on-board nucleonic
instrumentation. The empirical approach has consisted of measurement
and data processing phases. Basic radiation intensity measurements
were made on ten aircraft which had penetrated debris clouds
produced by French nuclear test detonations in 1970 and 1971. In
general, a repeatable correlation between contamination levels and
aircraft locations was observed. The analytical approach has
consisted of the formulation of a particle attachment model and the
integration of this attachment model and an aircraft fly-through
model with an existing water-surface-burst debris cloud model to
predict gross contamination intensity.

ABS: The attachment model determines collection efficiency parameters as
a function of debris particle size, aircraft velocity, and airfoil
parameters. Simulation of the production and time history of a

nuclear debris cloud, and the passage of a collecting body through it, has been accomplished through extensive modifications of a water surface burst and cloud history computer code. As a result of these two approaches, it appears that the contamination collected by an aircraft upon passage through a debris cloud a reasonable time after detonation (four hours or more) will not interfere with most on-board nucleonic instrumentation.

ADNO: 771584
AUTH: PERLEY W.B. ; PFEIFER R.J.
CLSS: U
CCDE: CLOUDRISE (CLOUD) ; SLURRY (DEBRIS ADHERENCE TO AIRCRAFT) AFFDL
CONN: F 33615 71 C 1102
CORP: INDUSTRIAL NUCLEONICS CORP. (COLUMBUS, OH.)
DATE: 7210
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1 AIRCRAFT PICKUP OF DEBRIS
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: THEORY EXPERIMENTAL
REPN: AFFDL TR 72 117 PT. 1
SHOT: FRENCH (70-SERIES)
TSHO: LOW-ALT
SUJO: 2-223-200 ; 3-312-210
TITL: NUCLEAR DEBRIS ATTACHMENT TO AIRCRAFT DUE TO ATMOSPHERIC RADIATION
ENVIRONMENTS--PT. 1, GENERAL STUDIES (U), 160 P., (U)

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copy: 1 id: 50053-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17291
AUTH: RUBIN B. ; SCHWARTZ L. ; MONTAN D.
CLSS: U
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA.)
DATE: 7205
DESC: EXPERIMENTAL
DESC: Nuclear Energy Peaceful Applications resource production gas L1
DESC: Nuclear Weapon Effects structures aboveground components L5 P 40
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1
DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse
L5 P 18
REPN: UCRL 51226
SHOT: RULISON ; GASBUGGY ; RIO BLANCO
TSHO: UG-CONTAINED
SUJO: 2-223-410 ; 2-627-000 ; 3-251-100 ; 3-483-100
TITL: ANALYSIS OF GAS STIMULATION USING NUCLEAR EXPLOSIVES (U), 40 P., (U)

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copy: 1 id: 50082-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17311
ABS: See part 1 (DASIAC 17269) for abstract.
ADNO: 771585
AUTH: PERLEY W.B. ; PFEIFER R.J.
CLSS: U
CCDE: CLOUDRISE (CLOUD) ; SLURRY/PASS (AIRCRAFT CONTAMINATION-DEBRIS)
AFFDL
CONN: F 33615 71 C 1102
CORP: INDUSTRIAL NUCLEIONICS CORP. (COLUMBUS, OH.)
DATE: 7210
DESC: Nuclear Weapon Phenomenology cloud shape size L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1 AIRCRAFT CONTAMINATION
DESC: TABULAR CODE
REPN: AFFDL TR 72 117 PT. 2
SUJO: 2-224-140 ; 3-312-210
TITL: NUCLEAR DEBRIS ATTACHMENT TO AIRCRAFT DUE TO ATMOSPHERIC RADIATION
ENVIRONMENTS--PART 2, AIRCRAFT IMPACTION AND ADHESION COMPUTER MODEL
(U), 140 P., (U)

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17311
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copy: 1 id: 50096-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17458
ADNO: 528291L
AUTH: WELLS P.B. ; HORTON C.E. ; KEITH J.R.
CLSS: SRD
CCDE: TRAX (THERMAL TRANSPORT) KAMAN
CONN: DACA 45 72 C 0052
CORP: ARMY ENGINEER WATERWAYS EXPERIMENT STATION (VICKSBURG, MS.)
DATE: 7212
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: GOOD SURVEY OF THERMAL ENVIRONMENT
DESC: Radiation Transport thermal L1 DISCUSSION OF APPLICABLE CODES
DESC: Nuclear Weapon Effects meteorological Atmospheric Heating L1 METHODS
OF ESTIMATION OF AIR-DUST HEATING
DESC: Nuclear Weapon Effects structures aboveground cities L1 MASS FIRES
EFFT: THERMAL
REPN: AEWES TR N 72 12 CHAP. 5
SUJO: 1-210-000 ; 1-240-000 ; 2-730-000 ; 3-252-000 ; 9-610-000
TEMP: A5097
TITL: ASSESSMENT OF THE STATE-OF-THE-ART FOR VULNERABILITY AND HARDNESS
ANALYSIS OF BALLISTIC MISSILE DEFENSE FACILITIES; CHAPTER 5, THERMAL

RADIATION (U), 271 P., (SRD)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17510
AUTH: WELLS M.B. ; BLATTNER W.G.
CLSS: U
CCDE: FLARE (VISIBLE TRANSPORT IN ATMOSPHERE) RRA
CONN: N 60921 71 C 0053
CORP: RADIATION RESEARCH ASSOCIATES, INC. (FT. WORTH, TX.)
DATE: 7203
DESC: Nuclear Weapon Environment Visible Output angular distribution L1
DESC: THEORY EXPERIMENTAL
DESC: Radiation Transport visible L1
REPN: RRA T7203 I
TSHO: LOW-ALT
SUJO: 1-430-000 ; 9-630-000
TITL: SKY BRIGHTNESS CALCULATIONS FOR 450, 550, AND 650 NM WAVELENGTH
POINT ISOTROPIC SOURCES IN MODEL ATMOSPHERES; VOL. 1, DESCRIPTION OF
CALCULATIONS (U), 115 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17511
AUTH: WELLS M.B. ; BLATTNER W.G.
CLSS: U
CCDE: FLARE (VISIBLE TRANSPORT) RRA
CONN: N 60921 71 C 0053
CORP: RADIATION RESEARCH ASSOCIATES, INC. (FT. WORTH, TX.)
DATE: 7203
DESC: Radiation Transport visible L1
DESC: TABULAR
DESC: Nuclear Weapon Environment Visible Output angular distribution L1
REPN: RRA T7203 II
TSHO: LOW-ALT ; HI-ALT
SUJO: 1-430-000 ; 9-630-000
TITL: SKY BRIGHTNESS CALCULATIONS FOR 450, 550, AND 650 NM WAVELENGTH
POINT ISOTROPIC SOURCES IN MODEL ATMOSPHERES; VOL. 2, RADIANCE DATA
FOR 450 NM WAVELENGTH LIGHT (U), 132 P., (U)

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copy: 1 id: 50315-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17512
AUTH: WELLS M.B. ; BLATTNER W.G.
CLSS: U
CCDE: FLARE (VISIBLE TRANSPORT) RRA
CONN: N 60921 71 C 0053
CORP: RADIATION RESEARCH ASSOCIATES, INC. (FT. WORTH, TX.)
DATE: 7203
DESC: Radiation Transport visible L1
DESC: TABULAR
DESC: Nuclear Weapon Environment Visible Output angular distribution L1
REPN: RRA T7203 III
SUJO: 1-430-000 ; 9-630-000
TITL: SKY BRIGHTNESS CALCULATIONS FOR 450, 550, AND 650 NM WAVELENGTH
POINT ISOTROPIC SOURCES IN MODEL ATMOSPHERES; VOL. 3, RADIANCE DATA
FOR 550 NM WAVELENGTH LIGHT (U), 132 P., (U)

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copy: 1 id: 50316-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17513
AUTH: WELLS M.B. ; BLATTNER W.G.
CLSS: U
CCDE: FLARE (VISIBLE TRANSPORT) RRA
CONN: N 60921 71 C 0053
CORP: RADIATION RESEARCH ASSOCIATES, INC. (FT. WORTH, TX.)
DATE: 7203
DESC: Nuclear Weapon Environment Visible Output angular distribution L1
DESC: Radiation Transport visible L1
DESC: TABULAR
REPN: RRA T7203 IV
SUJO: 1-430-000 ; 9-630-000
TITL: SKY BRIGHTNESS CALCULATIONS FOR 450, 550, AND 650 NM WAVELENGTH
POINT ISOTROPIC SOURCES IN MODEL ATMOSPHERES; VOL. 4, RADIANCE DATA
FOR 650 NM WAVELENGTH LIGHT (U), 132 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22975
AUTH: MASKEWITZ B.F.
CLSS: U
CCDE: ZZ (NUMEROUS RADIATION TRANSPORT ; REACTOR CODES) RSIC
CORP: OAK RIDGE NATIONAL LAB., RADIATION SHIELDING INFORMATION CENTER (OAK
RIDGE, TN)
DATE: 7208
DESC: Radiation Transport L1
DESC: HANDBOOK
REPN: ORNL RSIC 13 VOL. 3
SUJO: 9-600-000
TITL: ABSTRACTS OF DIGITAL COMPUTER CODE PACKAGES ASSEMBLED BY THE
RADIATION SHIELDING INFORMATION CENTER (U), CA. 250 P., (U)
TREE: 950

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22975

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copy: 1 id: 55540-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23025
CLSS: U
CORP: NATIONAL ACADEMY OF SCIENCES (WASH., DC)
DATE: 7211
DESC: SURVEY
DESC: Environmental Impact Assessments EIS Supporting Data L1 BEIR REPORT
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L1
EFFT: IONIZING RADIATION
SUJO: 3-312-200 ; 4-870-200
TITL: EFFECTS ON POPULATIONS OF EXPOSURE TO LOW LEVELS OF IONIZING
RADIATION; REPORT OF THE ADVISORY COMMITTEE ON THE BIOLOGICAL
EFFECTS OF IONIZING RADIATIONS (U), 217 P., (U)

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copy: 1 id: 55575-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23083
AUTH: KENNEDY D.P.
CLSS: U
CONN: F 19628 70 C 0098
CORP: IBM CORP. (HOPEWELL JUNCTION, NY)
DATE: 7201
DESC: THEORY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1

EFFT: TREE
REPN: IBM TR 22.1486 ; AFCRL 72 0257
SUJO: 3-221-000
TITL: MATHEMATICAL SIMULATION OF THE EFFECTS OF IONIZING RADIATION ON
SEMICONDUCTORS (U), 131 P., (U)

TREE: 310

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23083

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copy: 1 id: 55625-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 23094

AUTH: FRYNCKO S. ; VOLK C.

CLSS: U

CONN: F 33615 70 C 1547

CORP: MOTOROLA, INC. (PHOENIX, AZ)

DATE: 7202

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 RADIATION HARDENINGS TRANSISTORS
RECTIFIERS

DESC: EXPERIMENTAL

EFFT: TREE

REPN: F 62 ; AFML IR 501 1 (II)

SUJO: 3-221-000

TITL: MANUFACTURING METHODS PROGRAM FOR RADIATION HARDENED POWER
STRUCTURES (U), 25 P., (U)

TREE: 310 ; 430

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23094

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copy: 1 id: 55636-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 23096

AUTH: SHERMAN C.H. ; GORDON N.E.

CLSS: U

CORP: PARKE MATHEMATICAL LABS., INC. (CARLISLE, MA)

DATE: 7100

DESC: THEORY

DESC: Radiation Transport electron L1

DESC: Cross Sections electron L1 AL

SUJO: 9-680-000 ; 9-850-000

TITL: CALCULATION OF ELECTRON SLOWING DOWN SPECTRA; 1 -HARD SPHERE CROSS
SECTIONS (U), 9 P., (U)

TREE: 990

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23096

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copy: 1 id: 55638-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23119

AUTH: MARSHALL R.W. ; UYEDA O. ; WAITS R.K.

CLSS: U

CONN: F 33615 71 C 1352

CORP: FAIRCHILD CAMERA AND INSTRUMENT CORP. (MT. VIEW, CA)

DATE: 7109

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESISTOR HARDENING

EFFT: TREE

REPN: AFML IR 501 OB (1)

SUJO: 3-229-000

TITL: MANUFACTURING METHODS AND PROCESSES FOR HIGH RESISTIVITY THIN FILM
RESISTORS FOR RADIATION HARDENED INTEGRATED CIRCUITS (U), 30 P., (U)

TREE: 380 ; 430

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23119

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copy: 1 id: 55655-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23120

AUTH: MARSHALL R.W. ; UYEDA O. ; WAITS R.K.

CLSS: U

CONN: F 33615 71 C 1352

CORP: FAIRCHILD CAMERA AND INSTRUMENT CORP. (MT. VIEW, CA)

DATE: 7112

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESISTORS HARDENING

EFFT: TREE

REPN: AFML IR 501 OB (2)

SUJO: 3-229-000

TITL: MANUFACTURING METHODS AND PROCESSES FOR HIGH RESISTIVITY THIN FILM
RESISTORS FOR RADIATION HARDENED INTEGRATED CIRCUITS (U), 44 P., (U)

TREE: 430 ; 380

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23120

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copy: 1 id: 55656-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23121
AUTH: AMMON G.M.
CLSS: U
CONN: F 33615 71 C 1270
CORP: HARRIS INTERTYPE CORP. (MELBOURNE, FL)
DATE: 7210
DESC: SIMULATION HARDENING ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESISTOR
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DUAL D FLIP-FLOP DUAL FOUR INPUT GATE
EFFT: TREE
REPN: AFML TR 72 166
SUJO: 3-222-000 ; 3-229-000
TITL: MANUFACTURING METHODS FOR CHROME SILICON FILM RESISTORS FOR
RADIATION HARDENED CIRCUITS (U), 131 P., (U)
TREE: 430 ; 380

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23121

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copy: 1 id: 55657-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23122
AUTH: MARSHALL R.W. ; UYEDA O. ; WAITS R.K. ; DRAKE L.E.
CLSS: U
CONN: F 33615 71 C 1352
CORP: FAIRCHILD CAMERA AND INSTRUMENT CORP. (MT. VIEW, CA)
DATE: 7211
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESISTOR HARDENING
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
HARDENING
EFFT: TREE
REPN: AFML TR 72 256
SUJO: 3-222-000 ; 3-229-000
TITL: MANUFACTURING METHODS AND PROCESSES FOR HIGH RESISTIVITY THIN FILM
RESISTORS FOR RADIATION HARDENED INTEGRATED CIRCUITS (U), 179 P.,
(U)
TREE: 430 ; 380

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copy: 1 id: 55658-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23128
AUTH: DELL'OCA C. ; DRAKE L.E. ; MARSHALL R.W. ; MYERS D.K.
CLSS: U
CONN: F 33615 72 C 1200
CORP: FAIRCHILD CAMERA AND INSTRUMENT CORP. (MT. VIEW, CA)
DATE: 7209
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESISTORS HARDENING
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
HARDENING
EFFT: TREE
REPN: AFML IR 500 1 (I)
SUJO: 3-222-000 ; 3-229-000
TITL: MANUFACTURING TECHNOLOGY ON RADIATION HARDENED MSI/LSI INTEGRATED
CIRCUITS (U), 72 P., (U)
TREE: 430 ; 320

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23128

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copy: 1 id: 55662-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23231
AUTH: KING D.S. ; NOEBEL G.W. ; MARTIN K.L. ; SMITH T.B.
CLSS: U
CONN: F 33615 70 C 1201
CORP: TEXAS INSTRUMENTS, INC. (DALLAS, TX)
DATE: 7210
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
EFFT: TREE
REPN: AFML TR 72 101 ; TI 03 72 56
SUJO: 3-222-000
TITL: MANUFACTURING METHODS FOR RADIATION HARDENED LOW POWER TTL CIRCUITS
(U), 93 P., (U)
TREE: 430

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copy: 1 id: 55746-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23244
AUTH: EISEN H.A.
CLSS: U
CORP: UNIVERSITY OF MARYLAND (BETHESDA, MD)
DATE: 7100

INUM: 17514
AUTH: WELLS M.B. ; BLATTNER W.G.
CLSS: U
CCDE: FLARE (VISIBLE TRANSPORT) RRA
CONN: N 60921 71 C 0053
CORP: RADIATION RESEARCH ASSOCIATES, INC. (FT. WORTH, TX.)
DATE: 7203
DESC: TABULAR
DESC: Nuclear Weapon Environment Visible Output angular distribution L1
DESC: Radiation Transport visible L1
REPN: RRA T7203 V
SUJO: 1-430-000 ; 9-630-000
TITL: SKY BRIGHTNESS CALCULATIONS FOR 450, 550, AND 650 NM WAVELENGTH
POINT ISOTROPIC SOURCES IN MODEL ATMOSPHERES; VOL. 5, SCATTERED AND
UNSCATTERED FLUX DATA (U), 156 P., (U)

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17514

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copy: 1 id: 50318-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17522
AUTH: OHMAN J.H.
CLSS: U
CORP: FOREST SERVICE (ST. PAUL, MN.)
DATE: 7210
DESC: Nuclear Weapon Effects ecological L5
DESC: Environmental Impact Assessments EIS Supporting Data L1
DESC: Environmental Impact Assessments EIS Supporting Data L5
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic external

L5

DESC: SUMMARY
EFFT: GAMMA
REPN: EIS WI 72 5525 D
SUJO: 3-332-210 ; 3-341-000 ; 4-870-130 ; 4-870-200
TITL: RADIOBIOLOGY OF NORTHERN FOREST COMMUNITIES; DRAFT ENVIRONMENTAL
STATEMENT (U), 40 P., (U)

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17522

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copy: 1 id: 50325-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17664-171
AUTH: PATTMAN J.D.R.
CLSS: U
CORP: DEFENSE RESEARCH ESTABLISHMENT SUFFIELD
DATE: 7103

DESC: Nuclear Weapon Environment Visible Output energy spectrum L1
DESC: SIMULATION (HE) ; EXPERIMENTAL
DESC: Nuclear Weapon Environment Infrared Output energy spectrum L1
DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L1
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1

LA: CANADA
SHOT: DIAL PACK
SUJO: 1-210-000 ; 1-320-000 ; 1-420-000 ; 1-520-000
SYMJ: EVENT DIAL PACK SYMPOSIUM REPORT, VOL. 1
TITL: THERMAL RADIATION MEASUREMENTS (U), 34 P., (U)

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17664-171

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copy: 1 id: 50454-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17664-207
AUTH: DERKSEN W.
CLSS: U
CORP: NAVAL ORDNANCE LAB. (WHITE OAK, MD.)
DATE: 7103
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1

DESC: Nuclear Weapon Environment Visible Output energy spectrum L1
DESC: EXPERIMENTAL
SHOT: DIAL PACK ; SNOWBALL ; PRAIRIE FLAT
SUJO: 1-210-000 ; 1-420-000
SYMJ: EVENT DIAL PACK SYMPOSIUM REPORT, VOL. 1
TITL: COMPARISON OF THERMAL RADIATION FROM THREE 500 TON TNT EXPLOSIONS;
PROJECT LN906 (U), 12 P., (U)

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17664-207

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 17667
AUTH: HANSEN D.F.
CLSS: SFRD 1
CONN: DASA 01 70 C 0160
CORP: EG+G (BEDFORD, MA.)
DATE: 7107
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1

DESC: TABULAR
DESC: test instruments visible L1
REPN: EGG B 4335

SUJO: 4-382-000 ; 4-820-600
TEMP: A5422
TITL: DATA REDUCTION AND SPECTROGRAPHIC INSTRUMENTATION STUDY (U), 39 P.,
(SFRD)

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17667
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copy: 1 id: 50491-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 17686
AUTH: KNECHT D.J.
CLSS: U
CORP: AIR FORCE CAMBRIDGE RESEARCH LABS. (BEDFORD, MA.)
DATE: 7209
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
DESC: HANDBOOK SURVEY
REPN: AFCRL 72 0570 ; AFSG 246
SUJO: 5-800-000
TITL: GEOMAGNETIC FIELD (A REVISION OF CHAPTER 11, HANDBOOK OF GEOPHYSICS
AND SPACE ENVIRONMENTS) (U), 130 P., (U)

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17686
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copy: 1 id: 50508-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18262
AUTH: NACHAMKIN J.
CLSS: SRD CNWDI
CCDE: RUDI (WEAPON OUTPUT ; X-RAY) LASL
CONN: W 7405 ENG 36
CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, N.M.)
DATE: 7108
DESC: Radiation Transport x-ray L1
DESC: THEORY
SUJO: 9-640-000
TEMP: A5754
TITL: CHARACTERISTIC RAY TRANSPORT SOLUTIONS IN A LAGRANGIAN MESH (U), 18
P., (SRD CNWDI)

TREE: 980
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18262
.endblock

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copy: 1 id: 51019-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 18264
AUTH: BARFIELD W.D.
CLSS: SRD CNWDI
CCDE: TWOTRAN [REDACTED] LASL
CONN: W 7405 ENG 36
CORP: LOS ALAMOS SCIENTIFIC LAB. (LOS ALAMOS, N.M.)
DATE: 7107
DESC: THEORY TABULAR
DESC: Radiation Transport x-ray L1
SUJO: 9-640-000
TEMP: A5757
TTTL: SOME EXPERIMENTS IN CALCULATION OF RADIATIVE TRANSFER BY THE SN
METHOD (U), 17P., (SRD CNWDI)
TREE: 980

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18264

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copy: 1 id: 51021-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 18299
ADNO: 754263
AUTH: STEWART R.G. ; CASTRO P.S.
CLSS: U
CCDE: SCEPTRE (CIRCUIT ANALYSIS) ; SAP
CONN: F 29601 71 C 0039
CORP: STEWART RESEARCH ENTERPRISES (LOS ALTOS, CA.)
DATE: 7211
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1
DESC: *SIMULATION (FLASH X-RAY) ; THEORY TABULAR CODE
EFFT: EMP ; TREE
EMPF: 330 ; 341
REPN: AFWL TR 72 76
SUJO: 3-219-000
TTTL: CIRCUIT AND RADIATION EFFECTS ANALYSIS BY ITERATED PROPAGATION OF
BIVARIABLE RESPONSE FUNCTIONS (U), 258 P., (U)
TREE: 330

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18299

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copy: 1 id: 51055-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 18308

AUTH: BOMBARDT J.N. JR. ; LIBELO L.F.
CLSS: U
CORP: HARRY DIAMOND LABS. (WASH., D.C.) ; NAVAL ORDNANCE LAB. (WHITE OAK,
MD.)
DATE: 7203
DESC: RF EMP shielding protection L1
DESC: THEORY
EMPF: 304
REPN: HDL TR 1585 ; NOL SERA PT. 3
SUJO: 9-810-000
TITL: SCATTERING OF ELECTROMAGNETIC RADIATION BY APERTURES; III. AN
ALTERNATIVE INTEGRAL EQUATION WITH ANALYTIC KERNELS FOR THE SLOTTED
CYLINDER PROBLEM (U), 26 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18335
AUTH: NERVIK W.E.
CLSS: SRD CNWDI
CONN: W 7405 ENG 48
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA.)
DATE: 7201
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1 SURFACE
MEASUREMENTS VENTED SHOTS
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L5 P
28
REPN: UCRL 51177
SHOT: SCREAMER ; RED HOT ; NASH ; DOOR MIST ; IMP ; MINT LEAF ; MIDI MIST
; PIKE ; DILUTED WATERS ; ALPACA ; TEE ; PIN STRIPE ; HUPMOBILE ;
SNUBBER ; BANE BERRY ; ANTLER ; PARROT ; UMBER ; DIANA MOON ; MINUTE
STEAK ; FLASK C ; DRILL
TSHO: UG-CONTAINED
SUJO: 2-223-100 ; 2-223-200 ; 2-225-100 ; 3-332-220
TEMP: A6022
TITL: STUDY OF THE IODINE PROBLEM (U), 167 P., (SRD CNWDI)

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18335

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copy: 1 id: 51090-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18426
CLSS: SRD CNWDI
CORP: SANDIA LAB. (LIVERMORE, CA.) ; LAWRENCE RADIATION LAB. (LIVERMORE,
CA.)
DATE: 7102
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
DESC: THEORY
DESC: Nuclear Weapon Effects reentry systems RV electronics L1
DESC: Nuclear weapon safety operational in-field use reliability broken
arrows L1
DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1
EFFT: X-RAY
REPN: SCL WD 70 66 ; RS 8232 2/30367
SOCE: W68-0
SUJO: 3-113-300 ; 3-161-100 ; 4-836-000 ; 4-838-600
SYST: MK 3 RV ; POSEIDON
TEMP: A6182
TITL: FINAL DEVELOPMENT REPORT ON THE W68-0/MK3 RE-ENTRY BODY (U), 120 P.,
(SRD CNWDI)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 18473
AUTH: PRICE R.W. ; KING W.C.
CLSS: SRD
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 7107
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: EXPERIMENTAL
REPN: UCRL 51095
SHOT: BANE BERRY
TSHO: UG-CONTAINED
SUJO: 2-223-100 ; 2-223-420 ; 2-225-100
TEMP: A6309
TITL: ESTIMATE OF THE ACTIVITY RELEASED IN THE BANE BERRY EVENT (U), 25 P.,
(SRD)

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18473

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copy: 1 id: 51258-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 18474
AUTH: KNOX J.B. ; CRAWFORD T.V. ; PETERSON K.R. ; CRANDALL W.K.
CLSS: S
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 7110
DESC: Nuclear Weapon Environment fallout down fraction L1
DESC: Nuclear Weapon Environment fallout transport L1
DESC: EXPERIMENTAL TABULAR
DESC: Nuclear Weapon Phenomenology base surge L1
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
REPN: UCRL 51054 REV. 1
SHOT: SCHOONER
TSHO: UG-VENTED
SUJO: 2-223-100 ; 2-224-120 ; 2-224-200 ; 2-225-200
TEMP: A6311
TTTL: COMPARISON OF U.S. AND U.S.S.R. METHODS OF CALCULATING THE
TRANSPORT, DIFFUSION, AND DEPOSITION OF RADIOACTIVITY (U), 64 P.,
(S)

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18474

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copy: 1 id: 51259-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18475
AUTH: STAEHLE G.G.
CLSS: SRD CNWDI
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 7204
DESC: EXPERIMENTAL TABULAR
DESC: Nuclear weapon test burn performance L1
DESC: Nuclear weapon test device physical operation construction geometry
materials components L1
REPN: UCRL 51191
SHOT: [REDACTED]
TSHO: UG-CONTAINED
SOCE: W-75 : [REDACTED]
SUJO: 4-836-000 ; 4-837-000
TEMP: A6312
TTTL: STATUS OF THE NUCLEAR DESIGN OF THE W75 WARHEAD FOR THE 8-2(CH
NUCLEAR ARTILLERY PROJECTILE (U), 40 P., (SRD CNWDI)

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copy: 1 id: 51260-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18478
AUTH: MAIMONI A.
CLSS: SRD CNWDI
CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)
DATE: 7101
DESC: Nuclear Weapon Effects reentry systems RV materials shielding L1
TROUT
DESC: EXPERIMENTAL
EFFT: X-RAY
REPN: UCRL 50996
SHOT: PACKARD ; MIDI MIST
SUJO: 3-113-230
TEMP: A6307
TITL: CRITERIA FOR MATERIALS SELECTION IN A VULNERABILITY ENVIRONMENT (U),
12 P., (SRD CNWDI)

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18478

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copy: 1 id: 51263-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18509

ABS: Theoretical models which predict the response of materials to high intensity photon fluences are developed and incorporated into a new computer code, HYPUF. The equation of state and temperature dependent x-ray cross sections are calculated internally using a self consistent model based on the SAHA equations and the Slater picture of the atom; no data tapes are required. The method applies to any mixture of elements. The SAHA equations predict the ion species and the Slater picture provides the energy levels. Knowledge of the ion species and the energy levels which are present allow computation of the x-ray cross sections and the plasma equation of state. The x-ray cross sections include the effects of bound free transitions, free-free transitions, and line transitions.

ABS: The principal transport processes accounted for in HYPUF are radiation diffusion, surface reradiation in the blackbody approximation, and electron thermal conductivity. Selected calculations are performed to assess the effect of the new high intensity phenomenology on blowoff impulse. This report includes a FORTRAN listing for HYPUF and a set of operating instructions. The inputs for HYPUF are virtually identical to those established for puff. (author)

ADNO: 521506L

AUTH: MALLOZZI P.J. ; FAIRAND B.P. ; JUNG R.G.

CLSS: SRD

CCDE: HYPUF (X RAY LOADING) AFWL/BATTELLE

CONN: F 29601 70 C 0023

CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS, OH.)

DATE: 7207

DESC: Nuclear Weapon Effects materials metals alloys L1 U TA

DESC: THEORY CODE

EFFT: X-RAY
REPN: AFWL TR 71 101
SUJO: 3-243-000
TEMP: A6292
TITL: EFFECTS OF HIGH-INTENSITY PHOTON FLUENCES (U), 128 P., (SRD)

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18509

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 18738
AUTH: GAYNOR R.E. ; CATES H.T.
CLSS: U
CCDE: TRAC
CORP: MARTIN MARIETTA CORP. (ORLANDO, FL.)
DATE: 7103
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTOR ZENER DIODE
DESC: Nuclear Weapon Effects missile systems ABM electronics L1 SPRINT
DESC: SIMULATION (PULSED REACTOR) ; EXPERIMENTAL
EFFT: NEUTRON
REPN: CREG 71 2
SUJO: 3-112-230 ; 3-221-000
TITL: NEUTRON RADIATION EVALUATION OF G657046 PNP TRANSISTOR AND 11176514
ZENER DIODE (U), 45 P., (U)

TREE: 310

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INUM: 18739
AUTH: GAYNOR R.E. ; CATES H.T.
CLSS: U
CCDE: TRAC
CONN: WECO GR 3000
CORP: MARTIN MARIETTA CORP. (ORLANDO, FL.)
DATE: 7102
DESC: SIMULATION (LINAC) ELECTRICAL HARDNESS TESTING ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTOR DIODE
DESC: Nuclear Weapon Effects missile systems ABM electronics L1 SPRINT
EFFT: GAMMA
REPN: CREG 71 1
SUJO: 3-112-230 ; 3-221-000
TITL: ALTERNATE SOURCE PROGRAM TRANSIENT GAMMA RADIATION EVALUATION.

11177622 HIGH POWER TRANSISTOR, 11176144 HIGH POWER DIODE (U), 45
P., (U)

TREE: 310

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INUM: 18851

AUTH: CRAWFORD T. ; CRANDALL W.K.

CLSS: S

CONN: W7405 ENG 48

CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA.)

DATE: 7204

DESC: Nuclear weapon test yield L1

DESC: Nuclear Weapon Phenomenology cloud shape size L1

DESC: Nuclear Weapon Environment fallout transport L1

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1

REPN: UCRL 51218

SHOT: FRENCH (70-05-15)

SUJO: 2-223-410 ; 2-224-140 ; 2-224-200 ; 4-835-000

TEMP: A6792

TITL: ESTIMATING THE YIELD OF THE FRENCH ATMOSPHERIC NUCLEAR TEST OF MAY
15, 1970, FROM AIRCRAFT CONCENTRATION MEASUREMENTS AND
METEOROLOGICAL CALCULATIONS (U), 23 P., (S)

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created: 12/27/1991 type: REPORT permanent

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INUM: 18872

AUTH: ABBOTT J.L. ; DUPREE S.A.

CLSS: SRD CNWDI

CORP: NAVAL WEAPONS EVALUATION FACILITY (ALBUQUERQUE, NM.)

DATE: 7112

DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L5

DESC: TABULAR

DESC: Nuclear Weapon Effects ordnance bombs mines warheads nuclear L1

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L5

EFFT: NEUTRON ; TREE

REPN: NWEF REPORT 1085

SOCE: W-45 ; W-30

SUJO: 1-120-000 ; 1-720-000 ; 3-161-100

SYST: TERRIER MISSILE

TEMP: A6733

TITL: TERRIER MISSILE NUCLEAR WARHEAD RADIATION VULNERABILITY AND ENVIRONMENT (U), 66 P., (SRD CNWDI)

TREE: 392

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18872

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INUM: 19195

AUTH: RICHARDS L.M.

CLSS: SRD CNWDI

CORP: LAWRENCE RADIATION LABORATORY (LIVERMORE, CA.)

DATE: 7206

DESC: Nuclear Weapon Effects electronic pieceparts measuring devices
sensors detectors L1

DESC: THEORY EXPERIMENTAL

DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L5 P 16

DESC: test instruments x-ray effects L1

REPN: UCID 16060

SHOT: DIAGONAL LINE

TSHO: UG-CONTAINED

SUJO: 1-610-000 ; 3-224-000 ; 4-330-000

TEMP: A6972

TITL: CLASSIFIED TITLE (U) 20 P., (SRD CNWDI)

TREE: 653

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INUM: 19225

AUTH: HANKS C.L. ; HAMMAN D.J.

CLSS: U

CONN: NASW 1568

CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS, OH.)

DATE: 7107

DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CAPACITORS

DESC: HANDBOOK

DESC: Nuclear Weapon Effects materials ceramics optical L1

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1 CABLE
INSULATION

DESC: Nuclear Weapon Effects materials plastics resins L1

EFFT: TREE

REPN: NASA CR 1787 ; N71 29776

SUJO: 3-229-000 ; 3-231-000 ; 3-241-000 ; 3-244-000
TITL: RADIATION EFFECTS DESIGN HANDBOOK; SECTION 3, ELECTRICAL INSULATING
MATERIALS AND CAPACITORS (U), 82 P., (U)

TREE: 370 ; 385

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19225

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INUM: 19533

ABS: This Volume discusses the experimental design and exposure conditions in the satellite materials experiment of underground test Ming Vase. The raw radiation intensity was about 200 times greater than the lowest intensity needed in the satellite materials experiment. A technique for attenuating radiation with a minimum change in its effective spectrum is described, and a rationale for selection of optimum filter material and specimen tilt is presented. The technique was successfully used in the Ming Vase experiment and is believed by be generally useful in any underground test in which the radiation must be attenuated. A computational method for translating underground test exposures to equivalent blackbody exposures was developed. The method is based on computer matching of dose profiles.

ABS: Translation of actual exposure conditions to ideal blackbody exposures permits the observations of different underground tests to be correlated and used in parametric studies of nuclear weapon effects. This Volume also describes the specimen cassette, the shot conditions, the post-test environment, and some of the computer programs used to calculate dose, temperature, and stress profiles.
(author)

AUTH: COOPER R.M. ; LEE T.S. ; CHILDS W.H. ; DIGIACOMO A.F. ; BURNS W.C. ;
JONUSKA D.C.

CLSS: SRD

CONN: F 04701 72 C 0073

CORP: AEROSPACE CORP (EL SEGUNDO, CA.)

DATE: 7208

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L5

DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L5

DESC: EXPERIMENTAL TABULAR

DESC: Nuclear Test Simulation Field Programs experiment design x-ray
experiments L1

DESC: Nuclear Weapon Effects space systems spacecraft or satellites
materials L1

REPN: TR 0059(6320) 1, VOL. 4 ; SAMSO TR 72 272

SHOT: MING VASE

TSHO: UG-CONTAINED

SUJO: 1-610-000 ; 1-620-000 ; 3-114-200 ; 4-820-500

TEMP: A7049

TITL: SATELLITE MATERIALS AND COMPONENTS EXPERIMENT IN THE MING VASE

UNDERGROUND TEST; VOL. 4, DESIGN OF THE EXPERIMENT (U), 61 P., (SRD)

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19533

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INUM: 19905
AUTH: MIKHAIL S.Z.
CLSS: U
CCDE: TDD
CONN: DAHC 20 70 C 0289
CORP: ENVIRONMENTAL SCIENCE ASSOCIATES (BURLINGAME, CA.)
DATE: 7101
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1
DESC: Nuclear Weapon Environment Fallout beta intensities L1
DESC: Nuclear Weapon Environment Fallout isotope concentrations L5
DESC: THEORY
EFFT: BETA
REPN: ESA TR 71 01
SUJO: 2-223-100 ; 2-223-300 ; 3-312-210
TITL: BETA-RADIATION DOSES FROM FALLOUT PARTICLES DEPOSITED ON THE SKIN
(U), 107 P., (U)

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INUM: 20062
ADNO: 885556
AUTH: GEORGE W.L. ; VOLK C.E.
CLSS: U
CONN: F 19628 68 C 0113
CORP: MOTOROLA, INC. (PHOENIX, AZ.)
DATE: 7104
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: Z 56 ; AFCRL 71 0271
SUJO: 3-221-000
TITL: RADIATION HARDENED SILICON POWER TRANSISTORS (U), 120 P., (U)
TREE: 310

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copy: 1 id: 53103-1001 library: DOCUMENT price: \$.00
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created: 12/27/1991 type: REPORT permanent
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INUM: 20211
AUTH: FLANAGAN T.M. ; CESENA R.A.
CLSS: U
CONN: F 29601 70 C 0029
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7105
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects structures hard launch sites materials L1
EFFT: TREE
EMPF: 388 ; 365
REPN: GULF RT 10642
SUJO: 3-116-200
TITL: RADIATION-INDUCED CONDUCTIVITY IN MISSILE SITE MATERIALS (U), 70 P.,
(U)

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created: 12/27/1991 type: REPORT permanent
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INUM: 20213
ADNO: 884977
AUTH: BEEZHOLD W. ; BOWMAN W.C. ; JOHNSTON A.H.
CLSS: U
CCDE: SCEPTRE ; CIRCUS
CONN: F 30602 69 C 0018
CORP: BOEING CO. (SEATTLE, WA.)
DATE: 7105
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (PULSE REACTOR) ; EXPERIMENTAL CODE
EFFT: TREE
REPN: AFWL TR 69 151
SUJO: 3-221-000 ; 3-222-000
TITL: GENERALIZED MODEL FOR MICROCIRCUIT TRANSIENT RADIATION RESPONSE
PREDICTION-NEUTRONS (U), 152 P., (U)
TREE: 320 ; 250

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20213
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INUM: 20216
AUTH: ZULEEG R. ; LEHOVEC K.
CLSS: U
CONN: F 19628 71 C 0218
CORP: MCDONNELL DOUGLAS ASTRONAUTICS CO. (HUNTINGTON BEACH, CA.)
DATE: 7211
DESC: SIMULATION ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: MDC G4368 ; AFCRL 72 0716
SUJO: 3-221-000
TITL: GAAS JUNCTION FIELD-EFFECT TRANSISTOR RADIATION STUDY (U), 103 P.,
(U)
TREE: 310

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INUM: 20218
ADNO: 753413
AUTH: GREENBAUM J.R.
CLSS: U
CCDE: SCEPTRE
CONN: F 29601 71 C 0049
CORP: GENERAL ELECTRIC CO. (SYRACUSE, N.Y.)
DATE: 7211
DESC: SIMULATION (LINAC) ; THEORY EXPERIMENTAL CODE
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
EFFT: TREE
REPN: AFWL TR 72 42
SUJO: 3-222-000
TITL: SIMPLIFIED MODELING OF INTEGRATED CIRCUITS FOR RADIATION PERFORMANCE
PREDICTION (U), 260 P., (U)
TREE: 320 ; 250

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created: 12/27/1991 type: REPORT permanent

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INUM: 20220
AUTH: ORNDORFF R.M. ; HAMMER E.L. ; GRAF N.A.
CLSS: U

CONN: F 04701 71 C 0115
CORP: HUGHES AIRCRAFT CO. (CULVER CITY, CA.)
DATE: 7112
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: TREE
REPN: SAMSO TR 71 301
SUJO: 3-222-000
TITL: RADIATION TESTING OF HARDENED ELECTRONIC COMPONENTS (U), 131 P., (U)
TREE: 320

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created: 12/27/1991 type: REPORT permanent

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INUM: 20232
ADNO: 529061L
AUTH: CLADIS J.B. ; DAVIDSON G.T. ; FRANCIS W.E. ; NEWKIRK L.L.
CLSS: S
CONN: F 04701 72 C 0051
CORP: LOCKHEED MISSILES AND SPACE CO., INC. (PALO ALTO, CA.)
DATE: 7203
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
TRAPPING
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L5 SOME INFO ON NATURALLY
OCCURRING TRAPPED RADIATION
DESC: Nuclear Weapon Effects space systems L5
EFFT: BETA
REPN: SAMSO TR 74 36 ; LMSC B303811
SUJO: 2-217-000 ; 3-114-000 ; 5-800-000
TEMP: A7645
TITL: DETERMINATION OF NUCLEAR RADIATION ENVIRONMENT IN HIGH ALTITUDE
SATELLITE ORBITS (U), 96 P., (S)
TREE: 940

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created: 12/27/1991 type: REPORT permanent

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INUM: 20267
AUTH: COHEN M.O.
CLSS: U
CCDE: TERF ; POST
CONN: DAHC 20 70 C 0221
CORP: MATHEMATICAL APPLICATIONS GROUP, INC. (ELMSFORD, N.Y.)

DATE: 7206
DESC: Cross Sections gamma L1
DESC: Nuclear Weapon Effects structures aboveground cities L5
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
DESC: SIMULATION (COMPUTER) ; THEORY EXPERIMENTAL
EFFT: GAMMA
REPN: MAGI MR 7027
SUJO: 3-252-000 ; 3-312-100 ; 9-830-000
TITL: CALCULATIONS OF DOSE RATES ARISING FROM RADIOACTIVE FALLOUT UPON AN
URBAN ENVIRONMENT (U), 77 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20290
AUTH: CHAPUT R.L. ; KOVACIC R.T. ; BARRON E.L.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7202
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR72 1
SUJO: 3-312-100
TITL: PERFORMANCE OF TRAINED BEAGLES AFTER SUPRALETHAL DOSES OF RADIATION
(U), 25 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20311
AUTH: MULLEN O.W.
CLSS: U
CONN: AT (26 1) 410
CORP: REYNOLDS ELECTRICAL AND ENGINEERING CO., INC. (LAS VEGAS, NV.)
DATE: 7111
DESC: SUMMARY
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L5
TELEMETRY DATA
DESC: Nuclear Weapon Test safety L1
REPN: NVO 410 7
SHOT: ILDRIM ; HUTCH ; SPIDER ; PLIERS ; MINUTE STEAK ; JORUM ; PIPKIN ;
CRUET ; POD ; CALABASH ; PICCALILLI ; DIESEL TRAIN ; GRAPE A ;
LOVAGE ; TERRINE ; FOB ; AJO ; GRAPE B ; LABIS ; DIANA MIST ;

CUMARIN ; YANNIGAN ; CYATHUS ; ARABIS ; JAL ; SHAPER ; HANDLEY ;
SNUBBER ; CAN ; BEEBALM ; HOD ; MINT LEAF ; DIAMOND DUST ; CORNICE ;
MANZANAS ; MORRONES ; HUDSON MOON ; FLASK ; ARNICA

SUJO: 2-223-200 ; 4-856-000

TITL: OPERATION MANDREL; ON-SITE RADIOLOGICAL SAFETY REPORT, JULY, 1969
THROUGH JUNE, 1970 (U), 47 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20327

AUTH: LORENZ J.J.

CLSS: U

CONN: AT (26 1) 410

CORP: REYNOLDS ELECTRICAL AND ENGINEERING CO., INC. (MERCURY, NV.)

DATE: 7201

DESC: Nuclear Weapon Test safety L1

DESC: Nuclear Weapon Environment fallout intensity contours patterns L1

DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1

REPN: NVO 410 3

SHOT: STANLEY ; WASHER ; BORDEAUX ; DOOR MIST ; YARD ; MARVEL ; ZAZA ;
LANPHER ; SAZERAC ; COBBLER ; STILT ; HUPMOBILE ; STACCATO ; KNOX ;
DORSAL FIN ; POMMARD ; STINGER ; MILK SHAKE ; NOOR ; SHUFFLE ;
SCROLL ; BOXCAR ; CLARKSMOBILE ; TUB ; RICKEY ; CHATEAUGAY

SUJO: 2-223-200 ; 2-225-100 ; 4-856-000

TITL: OPERATION CROSSTIE; ON-SITE RADIOLOGICAL SAFETY REPORT JULY 1967
THROUGH JUNE 1968 (U), 50 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20363

ABS: The principal objectives of is investigation were to provide estimates of the increase in the number of survivors and effective survivors that might be achieved in tactical and strategic nuclear warfare environments through the use of radiation protection drugs. A secondary objective was to provide estimated dose burden distributions among survivors. The following assumptions were made in coordination with the client for use in assessing possible effects of radiation protection agents-(1) DRFS (dose reduction factors) are applied and varied over a reasonable range to account for present and future protection agent potentials, (2) there is no dependency between dose level and DRF, (3) the effectiveness period of the drug covers the whole nuclear engagement, (4) there is no

variation in protection with time, and (5) the drug is equally effective against gamma and neutron radiation.

ABS: The basis for the tactical evaluation was a division level nuclear war game developed and conducted by the U.S. Army Combat and Development Command, Institute of Combined Arms and Support, Fort Leavenworth, Kansas. The game was a high intensity, short duration game. The tactical evaluation was carried out in two phases. Phase I consisted of a data collection activity and the development and employment of a manual method, closely related to the assumptions made and the output generated in the war game. In Phase II, a sensitivity analysis was conducted to arrive at a more comprehensive evaluation of the potential effectiveness of radiation protection agents. The dose distribution to troops that survived blast and thermal effects indicates that a large number of soldiers were affected by nuclear radiation, many of whom received doses of at least 2500 rad.

ABS: But appreciable numbers can also be found in lower dose intervals. This is true for all troops and especially for combat troops. The analysis of the first phase was completed by applying dose reduction factors and appropriate biological response criteria to calculate ineffective personnel and fatalities due to radiation. Favorable assumptions were used by the war game on the effectiveness of red to acquire targets? the results turned out to be sensitive to those assumptions. For example, at a DRF of three the number of survivors is increased by about 1,200 if a "medium" target acquisition capability is assumed, compared to about 780 if a "very good" capability is assumed. Using the outcome of the sensitivity analysis, the study findings regarding the capability of protection agents to produce increased survivors can be judged as low estimates.

ABS: Unfortunately, the assumption that a distinction is not needed between gamma and neutron dose within the total radiation proved to be significant. In general, the neutron radiation constituted the largest part of the total dose? e.g., a two kt weapon produces a total dose of 691 rad at a distance of 1000 meters from Ground Zero? the neutron radiation is 552 rad. Since protective agents currently being studied are mainly capable of protecting against gamma radiation, this indicates the importance of a distinction between gamma and neutron radiation when low yield weapons are assumed within a tactical evaluation.

AUTH: PILZ U.F. ; RYAN J.W. ; TERESI J.D. ; DOLAN P.J.

CLSS: U

CCDE: DOSDIS

CONN: DADA 17 70 C 0068

CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA.)

DATE: 7101

DESC: Nuclear Warfare Theater Survivability Security Safety L1

DESC: Nuclear Warfare Strategic Survivability Security Safety L1

DESC: THEORY

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

REPN: SRI EG 8379

SUJO: 3-312-100 ; 3-412-100 ; 3-422-100

TITL: OPERATIONAL STUDY OF THE USE OF RADIATION PROTECTION AGENTS TO INCREASE SURVIVORS IN TACTICAL AND STRATEGIC NUCLEAR WARFARE

ENVIRONMENTS (U), 82 P., (U)

TNFF: 5602

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INUM: 20419

ABS: Fourteen unfettered primates (*Macaca mulatta*) were trained to perform a discriminated avoidance task and were exposed to a 2000-rad (midline tissue dose) pulse of gamma-neutron radiation. For the monkeys of this study, the time of onset and duration of the initial performance decrement, including early transient incapacitation, was similar to that previously observed with restrained monkeys. However, average recovery following the initial decrement was less complete for unrestrained animals. On the basis of performance during the first 2 hours postirradiation, unrestrained primates exposed to 2000 rads can be functionally separated into three roughly equal groups: (1) animals that continued to perform at or near base-line levels; (2) animals that recovered to near base-line levels following periods of behavioral decrement, incapacitation, or non-performance;

ABS: and (3) animals that became incapacitated in the first 10 minutes and generally did not recover before death.

ADNO: 724653

AUTH: CURRAN C.R. ; CONRAD D.W. ; YOUNG R.W.

CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 7104

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

EFFT: NEUTRON ; GAMMA

REPN: AFRRRI SR 71 3

SUJO: 3-312-100

TITL: EFFECTS OF 2000 RADS OF PULSED GAMMA-NEUTRON RADIATION UPON THE PERFORMANCE OF UNFETTERED MONKEYS (U), 21 P., (U)

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INUM: 20452

AUTH: BAUM S.J. ; WYANT D.E.

CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 7107

DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AFRI SR 71 9
SUJO: 3-312-100
TITL: ERYTHROPOIETIC STEM CELL RECOVERY IN IRRADIATED POLYCYTHEMIC DOGS
(U), 20 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20456
AUTH: TURBYFILL C.L. ; FLINTON J.H. ; ROUDON R.M. ; KIEFFER V.A.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7212
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AFRI SR 72 21
SUJO: 3-312-100
TITL: LATERAL VENTRICULAR PRESSURE CHANGES IN THE MONKEY INDUCED BY
SUPRALETHAL DOSES OF MIXED GAMMA-NEUTRON RADIATION (U), 12 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20461
AUTH: TURBYFILL C.L. ; ROUDON R.M. ; KIEFFER V.A.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7108
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AFRI SR 71 10
SUJO: 3-312-100
TITL: BEHAVIOR AND PHYSIOLOGY OF THE MONKEY (MACACA MULATTA) FOLLOWING
2500 RADS OF PULSED MIXED GAMMA-NEUTRON RADIATION (U), 23 P., (U)

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copy: 1 id: 53438-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20462
AUTH: KABAL J. ; BAUM S.J. ; PARKHURST L.J.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7109
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 71 11
SUJO: 3-312-100
TITL: ALTERATION OF INTESTINAL VASOACTIVITY DURING THE DEVELOPMENT OF THE
GASTROINTESTINAL RADIATION SYNDROME (U), 23 P., (U)

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copy: 1 id: 53439-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20463
AUTH: MCHALE C.G. ; CATRAVAS G.N.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7203
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 72 2
SUJO: 3-312-100
TITL: EFFECT OF INCREASING DOSES OF IONIZING RADIATION ON LIVER ENZYMES
INVOLVED IN FATTY ACID SYNTHESIS (U), 34 P., (U)

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copy: 1 id: 53440-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 20464
AUTH: TURBYFILL C.L. ; ROUDON R.M. ; YOUNG R.W. ; KIEFFER V.A.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7203
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON ; GAMMA

REPN: AFRRI SR 72 3
SUJO: 3-312-100
TITL: ALTERATION OF RADIATION EFFECTS BY 2-(N-DECYLAMINO)
ETHANETHIOSULFURIC ACID (WR1607) IN THE MONKEY (U), 24 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20465
AUTH: KABAL J. ; BAUM S.J. ; PARKHURST L.J.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7203
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 72 4
SUJO: 3-312-100
TITL: CANINE CARDIOVASCULAR HOMEOSTASIS IN THE GASTROINTESTINAL RADIATION
SYNDROME (U), 30 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20466
AUTH: MCFARLAND W.L. ; LEVIN S.G.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7204
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 72 8
SUJO: 3-312-100
TITL: EFFECTS OF PULSED GAMMA-NEUTRON IRRADIATION ON THE EEG AND BEHAVIOR
OF THE MONKEY (U), 43 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: 20467
AUTH: COHAN S.L. ; CATRAVAS G.N. ; ABBOTT J.R. ; RICKS E.E.
CLASS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7207
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: BETA
REPN: AFRRI SR 72 12
SUJO: 3-312-100
TITL: EFFECT OF SUPRALETHAL DOSES OF IONIZING RADIATION UPON MITOCHONDRIA
OF THE RAT CENTRAL NERVOUS SYSTEM (U), 16 P., (U)

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copy: 1 id: 53444-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20468

ABS: The postirradiation performance of miniature pigs trained to work a shuttlebox problem was compared to that of miniature pigs trained to work a visual discrimination problem. The pigs were whole-body exposed to a gamma ray field produced by the AFRRI-TRIGA reactor operated in the pulse mode (incident neutron to gamma ratio of 0.06) and received midline tissue doses to the brain of 1200 to 3300 rads. The major difference in performance occurred during the first 30 minutes after irradiation. At the doses used in this study, discrimination-trained pigs experienced a more severe and prolonged period of early temporary performance decrement than did the shuttlebox-trained pigs. The ED50 or 50 percentile midbrain dose for early performance decrement was calculated to be 1870 and 2380 rads for the discrimination-trained and shuttlebox-trained pigs, respectively.

ADNO: 756609

AUTH: CHAPUT R.L. ; BARRON E.L.

CLASS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 7206

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

DESC: EXPERIMENTAL

EFFT: NEUTRON ; GAMMA

REPN: AFRRI SR 72 10

SUJO: 3-312-100

TITL: POSTIRRADIATION PERFORMANCE OF MINIATURE PIGS AS MODIFIED BY TASKS
(U), 20 P., (U)

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copy: 1 id: 53445-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 20469

ABS: The performance of eight monkeys (*Macaca mulatta*), trained at the USAF School of Aerospace Medicine to operate a primate equilibrium platform (PEP), was tested following a single pulse, whole-body 2700-rad (plus or minus 200 rads) dose of neutron-gamma radiation at the AFRRI-TRIGA reactor (n/g equals 0.5:1, pulse half-width of 50 msec). The results were compared to: (1) PEP-trained animals exposed to a 2500-rad pulse of neutron-gamma radiation at the White Sands Missile Range fast burst reactor (n/g equals 9:1, pulse half-width of 40 microsec), and (2) animals trained at the Armed Forces Radiobiology Research Institute (AFRRI) to perform a simple discrete avoidance task and then irradiated (2800 rads) in the AFRRI-TRIGA reactor.

ABS: The two groups of animals exposed in the higher gamma field of the TRIGA reactor exhibited a behavioral decrement soon after irradiation which was more severe than the decrement observed in animals exposed to the higher neutron field of the White Sands reactor. Stimulus response differences in the behavioral tasks employed were manifested in a slower recovery rate for the PEP-trained animals exposed in the TRIGA reactor compared to the AFRRI animals trained to perform the discrete avoidance task and irradiated in the same reactor.

ADNO: 759016

AUTH: BROWN G.C. ; CURRAN C.R. ; VERRELLI D.M. ; ALLEN S.J. ; BARNES D.J.

CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 7208

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

DESC: EXPERIMENTAL

EFFT: NEUTRON ; GAMMA

REPN: AFRRI SR 72 14

SUJO: 3-312-100

TITL: FACTORS AFFECTING THE PERFORMANCE OF PRIMATES FOLLOWING A 2700-RAD PULSED DOSE OF IONIZING RADIATION (U), 17 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 20470

AUTH: SOBOCINSKI P.Z. ; HARTLEY K.M. ; EVANS A.S. ; CANTERBURY W.J.

CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 7208

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

REPN: AFRRI SR 72 13

SUJO: 3-312-100
TITL: PARTIAL CHARACTERIZATION OF CARBOHYDRATE RESIDUES OF SERUM
GLYCOPROTEINS IN NEOPLASTIC DISEASE (U), 20 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20471
AUTH: ZEMAN G.H. ; JONES S.R. ; GEORGE R.E. ; LEVIN S.G.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7209
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
EFFT: NEUTRON
REPN: AFRRI SR 72 15
SUJO: 3-312-100
TITL: RELATIVE EFFECTIVENESS OF FISSION NEUTRONS FOR GASTROINTESTINAL
DAMAGE IN MICE--LETHALITY AND JEJUNAL CRYPT RESPONSE (U), 18 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20472
AUTH: CATRAVAS G.N. ; MCFARLAND W.L. ; TEITELBAUM H.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7210
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
REPN: AFRRI SR 72 16
SUJO: 3-312-100
TITL: NEUROCHEMICAL CHANGES IN SPECIFIC REGIONS OF RAT BRAIN DURING
DIFFERENT PHASES OF CONDITIONING (U), 13 P., (U)

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copy: 1 id: 53449-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 20473

AUTH: COHAN S.L. ; ABBOTT J.R. ; CATRAVAS G.N.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7210
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: BETA
REPN: AFRI SR 72 17
SUJO: 3-312-100
TITL: EFFECT OF IONIZING RADIATION UPON MITOCHONDRIA OF THE CENTRAL
NERVOUS SYSTEM (U), 16 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20474

ABS: Eighty-five male monkeys maintained in primate restraining chairs were trained to criterion performance on a shock avoidance visual discrimination task. The subjects were then irradiated with either a single 5000-rad pulse or two 2500-rad (mid-line tissue dose) pulses of mixed gamma-neutron radiation (neutron to gamma ratio of 0.4). The second 2500-rad dose was delivered after intervals of 20, 30, 40, 60, 180, 270, or 360 minutes. Performance was monitored continuously, and data are reported for animals irradiated with midline tissue doses of 2500 rads, 5000 rads, and 2500 rads followed by 2500 rads. Subsequent to a single 2500-rad irradiation, 75 percent of the subjects exhibited performance decrements.

ABS: For subjects irradiated with two 2500-rad pulses, the degree of performance decrement was not as great as that observed for subjects irradiated with a single 5000-rad pulse, unless the 2500-rad pulses were separated by an interval of approximately 40 minutes. Despite the decreased behavioral decrement for the animals with fractionated doses, no difference was observed in survival times from those of subjects irradiated with a single dose of 5000 rads.

ADNO: 759017

AUTH: YOUNG R.W. ; MCFARLAND W.L.

CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 7211

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

EFFT: NEUTRON ; GAMMA

REPN: AFRI SR 72 19

SUJO: 3-312-100

TITL: PERFORMANCE OF THE MONKEY (MACACA MULATTA) AFTER TWO 2500-RAD PULSES
OF MIXED GAMMA-NEUTRON RADIATION (U), 26 P., (U)

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copy: 1 id: 53451-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20475
AUTH: WYANT D.E. ; KABAL J. ; BAUM S.J. ; PARKHURST L.J.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7211
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 72 18
SUJO: 3-312-100
TITL: RELATIONSHIPS OF BLOOD-BRAIN BARRIER DAMAGE TO SURVIVAL TIME AFTER
ACUTE RADIATION INJURY (U), 11 P., (U)

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copy: 1 id: 53452-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20476
ABS: Trained miniature pigs were irradiated in a nuclear reactor-produced gamma ray field. Dose rates at the midline of the brain were 470, 1000, 1500, 2000, or approximately 10,000,000 (pulsed irradiation) rads/minute. Doses ranged from 1500 to 14,700 rads. Postirradiation performance data were used to calculate for each dose rate the most probable dose that would cause 50 percent of the animals to perform unsatisfactorily (ED50). The miniature pigs' response varied markedly with dose rate at less than 2000 rads/minute; ED50's were 10,570, 7780, 2500, and 2380 rads, respectively, for 470, 1000, 1500, 2000, and 10 to the 7th power rads;minute. Survival times, however, did not appear to be dependent upon dose rate.
ADNO: 757039
AUTH: GEORGE R.E. ; CHAPUT R.L. ; BARRON E.L.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7212
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR 72 20
SUJO: 3-312-100
TITL: DEPENDENCE OF MINIATURE PIG PERFORMANCE DECREMENT UPON GAMMA RAY
DOSE RATE (U), 16 P., (U)

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copy: 1 id: 53453-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20531
ADNO: 528661L
AUTH: ROGERS J.
CLSS: C
CONN: N 62269 70 C 0340
CORP: GRUMMAN AEROSPACE CORP. (BETHPAGE, N.Y.)
DATE: 7107
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects flight systems airplanes electronics L1
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1
EFFT: TREE
REPN: GR 00 39,631 12 171
SUJO: 3-111-300 ; 3-212-000
TEMP: A7669
TITL: TRANSIENT RADIATION EFFECT STUDY PERTAINING TO DEVELOPMENT OF
MODULAR PROCESSOR AIRCRAFT COMPUTER SYSTEM (U), CA.150 P., (C)
TREE: 341 ; 420

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20531

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 20579
ADNO: 882439
AUTH: ANDERSON W.D. ; GLASS C.M.
CLSS: U
CORP: AIR FORCE ACADEMY (COLORADO SPRINGS, CO.)
DATE: 7103
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L5
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1
DESC: SIMULATION (ANALOG COMPUTER) ; SUMMARY
EFFT: TREE
REPN: AFWL TR 70 187
SUJO: 3-221-000 ; 4-170-000
TITL: SIMULATION OF RADIATION EFFECTS ON SEMICONDUCTORS USING ANALOG
COMPUTER TECHNIQUES (U), 56 P., (U)
TREE: 310

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20579

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20588

ABS: Fifty-eight male monkeys (*Macaca mulatta*) were trained by shock avoidance conditioning to work a simultaneous visual discrimination problem. Trained subjects were irradiated in either a nuclear reactor-produced neutron field (incident neutron to gamma ray ratio of about 10) or a similarly produced gamma ray field (incident neutron to gamma ray ratio of about 0.1). In all exposures the midbrain dose rate was about 2000 rads/minute. The midbrain dose most likely to cause early transient incapacitation (ETI) in 50 percent of the irradiated subjects was determined. The signs and symptoms of ETI were the same whether the monkey received gamma or neutron radiations.

ADNO: 742076

AUTH: THORP J.W. ; YOUNG R.W.

CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 7204

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

EFFT: NEUTRON ; GAMMA

REPN: AFRRI SR72 5

SUJO: 3-312-100

TITL: NEUTRON EFFECTIVENESS FOR CAUSING INCAPACITATION IN MONKEYS (U), 22 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 20592

AUTH: GEORGE R.E. ; CHAPUT R.L. ; VERRELLI D.M. ; BARRON E.L.

CLSS: U

CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)

DATE: 7103

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

EFFT: NEUTRON

REPN: AFRRI SR71 2

SUJO: 3-312-100

TITL: RELATIVE EFFECTIVENESS OF FISSION NEUTRONS FOR MINIATURE PIG PERFORMANCE DECREMENT (U), 28 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20593
AUTH: MCFARLAND W.L. ; YOUNG R.W.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7105
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: NEUTRON ; GAMMA
REPN: AFRRI SR71 6
SUJO: 3-312-100
TITL: PERFORMANCE OF THE MONKEY FOLLOWING TWO UNEQUAL PULSES OF RADIATION
(U), 25 P., (U)

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copy: 1 id: 53547-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20594
AUTH: EIKMAN E.A. ; BOWSER R.T.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7105
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
REPN: AFRRI SR71 7
SUJO: 3-312-100
TITL: ALTERATION IN GRAFT VERSUS HOST REACTIVITY AND IN HEMATOPOIETIC STEM
CELLS OF SPLEEN CELL INOCULA FROM DONOR MICE PRETREATED WITH
PERTUSSIS ANTIGEN (U), 30 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20595
AUTH: GALLAGHER P.N.JR. ; LEVICH C.
CLSS: U
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7106
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL
EFFT: X-RAY

REPN: AFRI SR71 8
SUJO: 3-312-100
TITL: X RAY-INDUCED TRANSIENT CHANGES IN NERVE CHARACTERISTICS (U), 24 P.,
(U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20647
AUTH: GORBACHEV V.M. ; UVAROV N.A. ; GUROV G.A. ; KUDRYA V.N.
CLSS: U
DATE: 7109
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
DESC: SUMMARY
EFFT: IEMP ; TREE
EMPF: 392
SUJO: 3-231-000
SYMJ: ATOMNAYA ENERGIYA; VOL. 33, NO. 1, P. 576, 1971
TITL: RESPONSE OF COAXIAL CABLE WITH POLYETHYLENE FILLER TO PULSED
RADIATION (U), 2 P., (U)
TREE: 390

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copy: 1 id: 53613-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20673
AUTH: STEPHAN B.G.
CLSS: U
CCDE: ANISN
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, N.M.)
DATE: 7202
DESC: Cross Sections x-ray L1
DESC: Radiation Transport x-ray L1
DESC: THEORY
REPN: AFWL TR 71 179
SUJO: 9-640-000 ; 9-840-000
TITL: COMPTON SCATTERING FROM A RELATIVISTIC MAXWELLIAN DISTRIBUTION OF
ELECTRONS BY THE DISCRETE S N METHOD (U), 108 P., (U)
TREE: 413

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copy: 1 id: 53638-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20685
AUTH: LEONARD B.E. ; PFEIFFER W.F. ; HUGHES D.A.
CLSS: U
CCDE: ROMEO
CORP: ARMED FORCES RADIOBIOLOGY RESEARCH INSTITUTE (BETHESDA, MD.)
DATE: 7107
DESC: test instruments nuclear radiation gamma L1
DESC: test instruments nuclear radiation neutron L1
DESC: SUMMARY
REPN: AFRRRI TN 71 3
SUJO: 4-341-000 ; 4-342-000
TITL: PULSE REACTOR RADIATION DETECTION SYSTEM USING AN ON-LINE COMPUTER
(U), 26 P., (U)
TREE: 651 ; 652

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20685
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copy: 1 id: 53647-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 20849
AUTH: RUDOLPH A.W. ; CARROLL T.E. ; DAVIDSON R.S.
CLSS: U
CONN: W 7405 ENG 92
CORP: BATTELLE COLUMBUS LABS. (COLUMBUS, OH.)
DATE: 7106
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic uptake
L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1
REPN: TID 26130
SUJO: 3-312-220 ; 3-332-220
TITL: PLUTONIUM AND ITS EFFECTS IN THE ENVIRONMENT -A SELECTED LITERATURE
SURVEY (U), 200 P., (U)

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20849
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copy: 1 id: 53786-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 21078-104
AUTH: PERKINS R.W.
CLSS: U

CORP: BATTELLE PACIFIC NORTHWEST LABS. (RICHLAND, WA.)
DATE: 7212
DESC: Nuclear Weapon Environment radiation decay isotopic half lives L1
SR-90 FE-55
DESC: BOMEX ; EXPERIMENTAL
SUJO: 2-223-410
SYMJ: PACIFIC NORTHWEST LABORATORY ANNUAL REPORT FOR 1971 TO THE USAEC
DIVISION OF BIOLOGY AND MEDICINE; VOL. 2, PT. 1
TITL: FALLOUT RATES AND MECHANISMS (U), 7 P., (U)

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21078-104

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copy: 1 id: 53913-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 21115
ADNO: 883539
AUTH: MCGOWAN S. ; WEBB D.K.
CLSS: U
CONN: D16 01 39
CORP: DEFENSE RESEARCH ESTABLISHMENT OTTAWA (OTTAWA, CANADA)
DATE: 7103
DESC: test instruments nuclear radiation dosimeters radiacs L1
DESC: test instruments nuclear radiation neutron L1
DESC: EXPERIMENTAL
LA: CANADA
REPN: DREO TN 71 2
SUJO: 4-342-000 ; 4-346-000
TITL: EVALUATION OF A WIDE-BASE SILICON DIODE FOR FAST-NEUTRON DOSIMETRY
(U), 20 P., (U)
TREE: 655 ; 652

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21115

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copy: 1 id: 53942-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 21259
AUTH: KNOX J.B. ; CRAWFORD T.V. ; CRANDALL W.K.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE LIVERMORE LABORATORY (LIVERMORE, CA.)
DATE: 7112
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1 I-131 BY RAINOUT
DESC: Nuclear Weapon Environment fallout accumulation rate L1
DESC: ALSO IN MICROFICHE ; SUMMARY
DESC: Nuclear Weapon Environment fallout down fraction L1

DESC: Nuclear Weapon Environment fallout transfer L1
REPN: UCRL 51164
TSHO: LOW-ALT
SUJO: 2-224-300 ; 2-225-200 ; 2-225-400 ; 3-312-220
TITL: POTENTIAL EXPOSURES FROM LOW-YIELD FREE AIR BURSTS (U), 23 P., (U)

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21259

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copy: 1 id: 54052-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 21326
AUTH: HEARST J.R.
CLSS: U
CCDE: SOC (ID HYDRO) LLL
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7101
DESC: Nuclear Weapon Environment Ground Shock motion strain fracture
displacement particle velocity L1
DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L1
DESC: EXPERIMENTAL TABULAR
REPN: UCID 15783
SHOT: VULCAN ; MERLIN ; PACKARD ; HUPMOBILE
TSHO: UG-CONTAINED
SUJO: 2-621-000 ; 2-623-000
TITL: ONE-DIMENSIONAL (SOC) CALCULATIONS OF THE EFFECTS OF FOUR NUCLEAR
EVENTS IN ALLUVIUM (U), 51 P., (U)

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21326

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copy: 1 id: 54120-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 21407
AUTH: FREDERICKSON A.R. ; JASPERSE J.R. ; GROSSBARD N.
CLSS: U
CCDE: INTBI (ELECTRIC FIELD COMPUTATION) AFCRL
CORP: AIR FORCE CAMBRIDGE RESEARCH LABS. (BEDFORD, MA.)
DATE: 7106
DESC: test instruments nuclear radiation beta electron beams L1
DESC: THEORY CODE
REPN: AFCRL 71 0369
SUJO: 4-344-000
TITL: ELECTROSTATIC POTENTIAL INSIDE A HEMISPHERE--ITS USE AS AN ELECTRON
ENERGY ANALYZER AND AS A TRIODE ELECTRONIC DEVICE (U), 52 P., (U)

TREE: 654

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21407
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copy: 1 id: 54184-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 21436
AUTH: OVERMYER R.F. ; BRUSH D.S. ; WEIMAN A.L.
CLSS: SRD
CONN: DAAG 39 69 C 0021
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7105
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (FLASH XR) ; EXPERIMENTAL
EFFT: X-RAY ; TREE
REPN: HDL 021 1 ; GULF RT 11038
SHOT: MINUTE STEAK ; DORSAL FIN ; MIDI MIST
TSHO: UG-CONTAINED
SUJO: 3-222-000
TEMP: A9020
TITL: SHOCK EFFECTS IN ELECTRONIC COMPONENTS (U), 202 P., (SRD)
TREE: 320 ; 430

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21436
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copy: 1 id: 54211-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 21726
AUTH: GUSTAFSSON H.
CLSS: U
CORP: DEFENSE RESEARCH INSTITUTE (STOCKHOLM, SWEDEN)
DATE: 7106
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling L1
DESC: THEORY
REPN: FOA 4 ; C 4466 23
SUJO: 2-150-000
TITL: ON THE THERMAL RADIATION PHASE AND THE DEVELOPMENT OF THE BLAST WAVE
FROM A NUCLEAR EXPLOSION (U), 25 P., (U)

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21726
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copy: 1 id: 54438-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22009

ABS: The objective of this study is to investigate the possible radiological hazard resulting from fallout produced by precipitation scavenging of the nuclear cloud formed by an air burst of a low yield nuclear weapon. The scope of this study is limited to situations involving air bursts of low yield nuclear weapons since it is felt that it is in these situations that the effects of precipitation will be most important. Obviously, precipitation will affect the fallout produced by surface and subsurface bursts. However, under these circumstances, an intense radiological hazard can be anticipated and may even be desired (e.g. The use of atomic demolition munitions (ADM) to create large-scale obstacles)? whereas in the air burst option the height of burst is specifically selected so as to preclude fallout, hence an intense radiological hazard is neither anticipated nor desired.

ABS: Meteorological data of northern Europe was used as being from a typical realistic area of concern.

CLSS: CFRD

CORP: GE TEMPO/WASHINGTON (WASH., DC)

DATE: 7204

DESC: Nuclear Warfare Theater operations scenarios battlefield environment
L5

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

DESC: THEORY

DESC: Nuclear Weapon Environment fallout transfer L1 RAINOUT

TSHO: LOW-ALT

SUJO: 2-224-300 ; 3-312-100 ; 3-411-200

TEMP: A9104

TITL: RADIOLOGICAL HAZARD DUE TO RAIN THROUGH A NUCLEAR CLOUD (U), 23 P.,
(CFRD)

TNFF: 4860

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22009

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copy: 1 id: 54607-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 22075

AUTH: READ F.W.

CLSS: U

CORP: ROYAL AIRCRAFT ESTABLISHMENT (FARNBOROUGH HANTS, ENGLAND)

DATE: 7200

DESC: BIBLIOGRAPHY

DESC: Nuclear Weapon Effects on animals ionizing radiation L5

LA: SWEDEN

SUJO: 3-312-000

TITL: SWEDISH DEFENSE RESEARCH ABSTRACTS 71/71-1 (U), 40 P., (U)

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22075

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copy: 1 id: 54614-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 22076
AUTH: READ F.W.
CLSS: U
CORP: ROYAL AIRCRAFT ESTABLISHMENT (FARNBOROUGH HANTS, ENGLAND)
DATE: 7110
DESC: Nuclear Weapon Effects on animals ionizing radiation L5
DESC: BIBLIOGRAPHY
LA: SWEDEN
SUJO: 3-312-000
TITL: SWEDISH DEFENSE RESEARCH ABSTRACTS, 70/71-3 (U), 35 P., (U)

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22076

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copy: 1 id: 54615-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 22077
AUTH: READ F.W.
CLSS: U
CORP: ROYAL AIRCRAFT ESTABLISHMENT (FARNBOROUGH HANTS, ENGLAND)
DATE: 7112
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Effects on animals ionizing radiation L5
LA: SWEDEN
SUJO: 3-312-000
TITL: SWEDISH DEFENSE RESEARCH ABSTRACTS, 70/71-4 (U), 46 P., (U)

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22077

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copy: 1 id: 54616-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 22078
AUTH: READ F.W.
CLSS: U
CORP: ROYAL AIRCRAFT ESTABLISHMENT (FARNBOROUGH HANTS, ENGLAND)
DATE: 7200
DESC: BIBLIOGRAPHY
DESC: Nuclear Weapon Effects on animals ionizing radiation L5
LA: SWEDEN
SUJO: 3-312-000
TITL: SWEDISH DEFENSE RESEARCH ABSTRACTS, 71/71-2 (U), 60 P., (U)

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copy: 1 id: 54617-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22079
AUTH: READ F.W.
CLSS: U
CORP: ROYAL AIRCRAFT ESTABLISHMENT (FARNBOROUGH HANTS., ENGLAND)
DATE: 7200
DESC: Nuclear Weapon Effects on animals ionizing radiation L5
DESC: BIBLIOGRAPHY
LA: SWEDEN (IN ENGLISH)
SUJO: 3-312-000
TITL: SWEDISH DEFENSE RESEARCH ABSTRACTS 71/72-3 (U), 60 P., (U)

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22079
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copy: 1 id: 54618-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22297
AUTH: KNOX J.B. ; CRAWFORD T.V. ; CRANDALL W.K.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 7112
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: THEORY
DESC: Nuclear Weapon Environment fallout transfer L1 RAINOUT
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
REPN: UCRL 51164
SUJO: 2-223-200 ; 2-224-300 ; 3-312-000
TITL: POTENTIAL EXPOSURES FROM LOW-YIELD FREE AIR BURSTS (U), 22 P., (U)

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22297
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copy: 1 id: 54772-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22328
AUTH: NIELSEN J.M.
CLSS: U
CORP: BATTELLE MEMORIAL INSTITUTE, PACIFIC NORTHWEST LABS. (RICHLAND, WA)
DATE: 7103

DESC: Meteorology L5
DESC: Dynamic Oceanography L5
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic L5
DESC: SUMMARY
REPN: BNWL 1551 PT. 2 ; UC 48
SUJO: 3-312-200 ; 5-500-000 ; 7-100-000
TITL: PACIFIC NORTHWEST LABORATORY ANNUAL REPORT FOR 1970 TO THE USAEC
DIVISION OF BIOLOGY AND MEDICINE; VOL. 2, PHYSICAL SCIENCES, PT. 2,
RADIOLOGICAL SCIENCES (U), 100 P., (U)

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22328

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copy: 1 id: 54805-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22379
AUTH: WELLS I.J.
CLSS: U
CORP: REYNOLDS ELECTRICAL + ENGINEERING CO., INC. (LAS VEGAS, NV)
DATE: 7212
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation neutron L1
REPN: NVO 410 9
SUJO: 4-342-000
TITL: NTS PERSONNEL DOSIMETER NAD SYSTEM (U), 55 P., (U)
TREE: 652

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22379

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copy: 1 id: 54874-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 22380
AUTH: HANKS C.L. ; HAMMAN D.J.
CLSS: U
CONN: NASW 1568
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS, OH)
DATE: 7107
DESC: TABULAR
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: NASA CR 1785
SUJO: 3-221-000
TITL: RADIATION EFFECTS DESIGN HANDBOOK; SECTION 1, SEMICONDUCTOR DIODES
(U), 40 P., (U)

TREE: 310
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22380
.endblock
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copy: 1 id: 54875-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 22381
ADNO: 892131L
AUTH: VOLK C. ; GEORGE W.L.
CLSS: U
CONN: F 19628 71 C 0157
CORP: MOTOROLA, INC. (PHOENIX, AZ)
DATE: 7111
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: AFCRL 71 0572
SUJO: 3-221-000
TITL: RADIATION HARDENED BIPOLAR HIGH VOLTAGE POWER TRANSISTORS (U), 37
P., (U)
TREE: 310

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22381
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copy: 1 id: 54876-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22382
ADNO: 905631L
AUTH: VOLK C. ; GEORGE W.L.
CLSS: U
CONN: F 19628 71 C 0157
CORP: MOTOROLA, INC. (PHOENIX, AZ)
DATE: 7206
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: AFCRL 72 0362
SUJO: 3-221-000
TITL: RADIATION HARDENED BIPOLAR HIGH VOLTAGE POWER TRANSISTORS (U), 39
P., (U)
TREE: 310

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22382
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copy: 1 id: 54877-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22508
AUTH: MULLEN O.W.
CLSS: U
CONN: AT (26 1) 410
CORP: REYNOLDS ELECTRICAL AND ENGINEERING CO., INC. (LAS VEGAS, NV)
DATE: 7205
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
DESC: Nuclear Weapon Test safety L1
REPN: NVO 410 10
TSHO: UG-CONTAINED
SUJO: 2-223-200 ; 4-856-000
TITL: OPERATION EMERY ON-SITE RADIOLOGICAL SAFETY REPORT; JULY 1970
THROUGH JUNE 1971 (U), 23 P., (U)

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22508
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copy: 1 id: 55036-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 22881
AUTH: FLEMING E.H.
CLSS: U
CCDE: KFOC ; 2B-PUFF
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)
DATE: 7100
DESC: PROCEDURE FOR CALCULATING TOTAL DOSE FROM AIRBORNE AND DEPOSITED
RADIONUCLIDE -EXAMPLE FOR 170-KT BURST ONE DAY AFTER DETONATION ;
THEORY
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L5
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
internal L1 APPENDICES SHOWING MILK AND SOIL-ROOT PATHWAY
CALCULATIONS
EFFT: IONIZING RADIATION
REPN: UCRL 50990
TSHO: UG-VENTED
SUJO: 3-312-210 ; 3-312-220
TITL: METHODOLOGY FOR COMPUTING POTENTIAL RADIATION DOSE TO MAN FROM
NUCLEAR EXCAVATION PROJECTS (U), 12 P., (U)

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22881
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copy: 1 id: 55451-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

DESC: EXPERIMENTAL
DESC: Radiation Transport electron L1
DESC: Nuclear Weapon Effects materials metals alloys L1 AL CU SN AU
DESC: Nuclear Weapon Effects materials plastics resins L1 POLYSTYRENE
EFFT: BETA
SUJO: 3-243-000 ; 3-244-000 ; 9-680-000
TITL: ELECTRON DEPTH-DOSE DISTRIBUTION MEASUREMENTS IN METALS AND
TWO-LAYER SLABS (U), 95 P., (U)

TREE: 990

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23244

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copy: 1 id: 55761-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 23248

AUTH: WEIANT M.A.

CLSS: U

CONN: F 33615 71 C 1270

CORP: HARRIS SEMICONDUCTOR

DATE: 7108

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

IC RESISTOR HARDENING

EFFT: TREE

REPN: AFML IR 501 OA 1

SUJO: 3-222-000

TITL: MANUFACTURING TECHNOLOGY AND PROCESSES FOR FILM RESISTORS FOR
RADIATION HARDENED CIRCUITS (U), 35 P., (U)

TREE: 430

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23248

.endblock

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copy: 1 id: 55765-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 23303

AUTH: BUEHLER M.G.

CLSS: U

CONN: F 19628 71 C 0192

CORP: TEXAS INSTRUMENTS, INC. (DALLAS, TX)

DATE: 7112

DESC: SIMULATION ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts materials basic

mechanisms L1

EFFT: NEUTRON ; BETA

REPN: TI 03 71 117 ; AFCRL 72 0013

SUJO: 3-220-200

TITL: INVESTIGATION OF RADIATION-INDUCED DEFECTS IN SILICON P-N JUNCTIONS
(U), 22 P., (U)

TREE: 200

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23303

.endblock

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copy: 1 id: 55803-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 23305

AUTH: RHEE C.J. ; GEORGE W.L.

CLSS: U

CONN: F 19628 68 C 0141

CORP: MOTOROLA, INC. (PHOENIX, AZ)

DATE: 7112

DESC: SIMULATION (REACTOR CO 60) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1

EFFT: TREE

REPN: D 61 ; AFCRL 71 0593

SUJO: 3-221-000

TITL: RADIATION HARDENED JUNCTION FIELD EFFECT TRANSISTORS--JFET'S
HARDENED TO BOTH TRANSIENT AND PERMANENT EFFECT (U), 71 P., (U)

TREE: 430

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23305

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copy: 1 id: 55805-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: 23306

AUTH: LONG D.M. ; SWANT D.H.

CLSS: U

CCDE: SCEPTRE

CONN: F 19628 69 C 0246

CORP: GENERAL ELECTRIC CO., REENTRY AND ENVIRONMENTAL SYSTEMS DIV.
(PHILADELPHIA, PA)

DATE: 7103

DESC: SIMULATION (LINAC) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1

EFFT: TREE

REPN: 70 SD 773 ; AFCRL 70 0709

SUJO: 3-221-000

TITL: JFET TRANSIENT RADIATION RESPONSE (U), 170 P., (U)

TREE: 250 ; 310

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23306

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copy: 1 id: 55806-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23308
AUTH: VOLK C. ; SALTICH J.
CLSS: U
CONN: F 19628 71 C 0157
CORP: MOTOROLA, INC. (PHOENIX, AZ)
DATE: 7211
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION ; EXPERIMENTAL
EFFT: NEUTRON
REPN: AFCRL 72 0726 ; Q 67
SUJO: 3-221-000
TITL: RADIATION HARDENED BIPOLAR HIGH VOLTAGE POWER TRANSISTORS (U), 25
P., (U)
TREE: 430

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23308

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copy: 1 id: 55808-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 23310
AUTH: KENNEDY D.P.
CLSS: U
CONN: F 19628 70 C 0098
CORP: IBM CORP. (HOPEWELL JUNCTION, NY)
DATE: 7104
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: THEORY
EFFT: TREE
REPN: AFCRL 71 0272
SUJO: 3-221-000
TITL: MATHEMATICAL SIMULATION OF THE EFFECTS OF IONIZING RADIATION ON
SEMICONDUCTORS (U), 96 P., (U)
TREE: 250

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23310

.endblock

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copy: 1 id: 55810-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 23315
AUTH: ZULEEG R. ; BEHLE A.F.
CLSS: U
CONN: F 19628 70 C 0197
CORP: MCDONNELL DOUGLAS ASTRONAUTICS CO. (HUNTINGTON BEACH, CA)
DATE: 7103
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 GA AS JFET
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
EFFT: NEUTRON
REPN: AFCRL 71 0153
SUJO: 3-221-000
TITL: GAAS JUNCTION FIELD-EFFECT TRANSISTOR RADIATION STUDY (U), 31 P.,
(U)
TREE: 310
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23315
.endblock
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copy: 1 id: 55817-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 23689
CLSS: C
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON BERKS, UK)
DATE: 7204
DESC: Radiation Transport gamma L1
DESC: Radiation Transport neutron L1
DESC: Cross Sections neutron L1
DESC: SURVEY
DESC: Cross Sections gamma L1
REPN: AWRE 0 16/72 (PT. 1)
SUJO: 9-620-000 ; 9-650-000 ; 9-820-000 ; 9-830-000
TEMP: A9337
TITL: PAPERS PRESENTED AT THE SYMPOSIUM ON RADIATION TRANSPORT 21 -22
SEPTEMBER 1971 HELD AT THE MINISTRY OF DEFENCE, LONDON (U), 170 P.,
(C)
TREE: 411 ; 412 ; 960 ; 970
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23689
.endblock
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copy: 1 id: 56115-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 23689-004
AUTH: KAUL D.C.
CLSS: C
CORP: DEFENSE NUCLEAR AGENCY (WASH., DC)
DATE: 7204

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
DESC: SUMMARY
SUJO: 4-140-000
SYMJ: PAPERS PRESENTED AT THE SYMPOSIUM ON RADIATION TRANSPORT 21-22
SEPTEMBER 1971
TITL: DEFENSE NUCLEAR AGENCY PROGRAM FOR RADIATION TRANSPORT RESEARCH (U),
12 P., (C)

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copy: 1 id: 56116-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: 23689-016
AUTH: WILLIAMS D.W.B. ; TACKWORTH T.W.
CLSS: C
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON BERKS, UK)
DATE: 7204
DESC: Nuclear RDT&E Research Program Descriptions biomedical L1
DESC: SUMMARY
SUJO: 4-150-000
SYMJ: PAPERS PRESENTED AT THE SYMPOSIUM ON RADIATION TRANSPORT 21-22
SEPTEMBER 1971
TITL: REQUIREMENT FOR RADIATION TRANSMISSION FACTORS (U), 9 P., (C)

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23689-016

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copy: 1 id: 56117-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23689-025
AUTH: SZABO F.P. ; CLIFFORD C.E.
CLSS: C
CORP: DEFENCE RESEARCH ESTABLISHMENT (OTTAWA, CANADA)
DATE: 7204
DESC: EXPERIMENTAL TABULAR
DESC: Cross Sections neutron L1
SUJO: 9-820-000
SYMJ: PAPERS PRESENTED AT THE SYMPOSIUM ON RADIATION TRANSPORT 21-22
SEPTEMBER 1971
TITL: SHIELDING TO FAST NEUTRONS PROVIDED BY IRON BARRIERS (U), 30 P., (C)
TREE: 412

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23689-025

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copy: 1 id: 56118-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 23689-055
AUTH: BARKER J.
CLSS: C
CORP: MILITARY VEHICLES AND ENGINEERING ESTABLISHMENT (CHERTSEY, UK)
DATE: 7204
DESC: Cross Sections gamma L1
DESC: EXPERIMENTAL
DESC: Cross Sections neutron L1 ARMORED VEHICLES
SUJO: 9-820-000 ; 9-830-000
SYMJ: PAPERS PRESENTED AT THE SYMPOSIUM ON RADIATION TRANSPORT 21-22
SEPTEMBER 1971
TITL: TRANSMISSION FACTORS OF AFVS AGAINST PROMPT RADIATION (U), 11 P.,
(C)
TREE: 411 ; 412

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23689-055

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copy: 1 id: 56119-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 23689-066
AUTH: RIGOTTI D.L.
CLSS: C
CORP: ARMY BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD)
DATE: 7204
DESC: Nuclear Weapon Effects land transport armored vehicles L1 CREW
SHIELDING
DESC: EXPERIMENTAL
DESC: Cross Sections gamma L1
EFFT: GAMMA
SUJO: 3-151-000 ; 9-830-000
SYMJ: PAPERS PRESENTED AT THE SYMPOSIUM ON RADIATION TRANSPORT 21-22
SEPTEMBER 1971
TITL: COMBAT VEHICLE SHIELDING STUDIES (U), 18 P., (C)
TREE: 411

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23689-066

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copy: 1 id: 56120-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 23689-084
AUTH: CLIFFORD C.E.
CLSS: C

CORP: DEFENCE RESEARCH ESTABLISHMENT (OTTAWA, CANADA)
DATE: 7204
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
SUJO: 3-312-100
SYMJ: PAPERS PRESENTED AT THE SYMPOSIUM ON RADIATION TRANSPORT 21-22
SEPTEMBER 1971
TTTL: EFFECTS OF SELF-SHIELDING ON THE EVALUATION OF RADIATION HAZARD (U),
9 P., (C)

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23689-084

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copy: 1 id: 56121-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 23689-094
AUTH: WILSON I.J. ; EUSTACE R.C.
CLSS: C
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON BERKS, UK)
DATE: 7204
DESC: HENRE ; EXPERIMENTAL
DESC: test instruments nuclear radiation neutron L1
SUJO: 4-342-000
SYMJ: PAPERS PRESENTED AT THE SYMPOSIUM ON RADIATION TRANSPORT 21-22
SEPTEMBER 1971
TTTL: MEASUREMENT OF THE TRANSMISSION OF 14 -15 MEV NEUTRONS NEAR THE
AIR-GROUND INTERFACE (U), 12 P., (C)
TREE: 652

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23689-094

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copy: 1 id: 56122-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 23689-106
AUTH: SIDDON P.A. ; BALLANCE B.M.O. ; GRAY I.N. ; PRICE J.A.
CLSS: C
CORP: ATOMIC WEAPONS RESEARCH ESTABLISHMENT (ALDERMASTON BERKS, UK)
DATE: 7204
DESC: THEORY
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
SUJO: 1-110-000
SYMJ: PAPERS PRESENTED AT THE SYMPOSIUM ON RADIATION TRANSPORT 21-22
SEPTEMBER 1971
TTTL: NUCLEAR DATA ERROR EFFECTS ON THE CALCULATED NEUTRON FLUX IN THE
ATMOSPHERE FROM A NUCLEAR WEAPON SOURCE (U), 14 P., (C)
TREE: 920

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23689-106

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23689-120

AUTH: STRAKER E.A.

CLSS: C

CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA)

DATE: 7204

DESC: EXPERIMENTAL

DESC: Cross Sections neutron L1

DESC: Radiation Transport neutron L1

SUJO: 9-650-000 ; 9-820-000

SYMJ: PAPERS PRESENTED AT THE SYMPOSIUM ON RADIATION TRANSPORT 21-22
SEPTEMBER 1971

TITL: EVALUATION OF THE ADEQUACY OF NITROGEN CROSS SECTION SETS BASED ON
COMPARISON OF TRANSPORT CALCULATIONS WITH INTEGRAL EXPERIMENT
RESULTS (U), 11 P., (C)

TREE: 412 ; 970

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 23932

AUTH: POMRANING G.C.

CLSS: U

CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA)

DATE: 7110

DESC: THEORY

DESC: Radiation Transport thermal L1

REPN: SAI 71 547 LJ

TSHO: SURFACE

SUJO: 9-610-000

TITL: PROPAGATION OF A NON-SPHERICAL THERMAL WAVE (U), 30 P., (U)

TREE: 950

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23932

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copy: 1 id: 56294-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 24457
ADNO: 739203
AUTH: KUO D-C. ; STRAIT B.J.
CLSS: U
CCDE: ZZ (EM SCATTERING) SYRACUSE U
CONN: F 19628 68 C 0180
CORP: SYRACUSE UNIVERSITY RESEARCH INSTITUTE (SYRACUSE, NY)
DATE: 7201
DESC: CODE
DESC: Electromagnetic Theory Applications L1
EMPF: 304
REPN: AFCRL 72 0051
SUJO: 9-300-000
TITL: IMPROVED PROGRAMS FOR ANALYSIS OF RADIATION AND SCATTERING BY
CONFIGURATIONS OF ARBITRARILY BENT THIN WIRES (U), 50 P., (U)

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24457

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copy: 1 id: 56699-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 24459
ADNO: 731178
AUTH: KUO D-C. ; STRAIT B.J.
CLSS: U
CCDE: ZZ (EM RADIATION)
CONN: F 19628 68 C 0180
CORP: SYRACUSE UNIVERSITY RESEARCH INSTITUTE (SYRACUSE, NY)
DATE: 7109
DESC: Nuclear Weapon Effects structures aboveground models cylinders cones
rings L1
DESC: THEORY CODE
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems antennas L1
EFFT: EMP
EMPF: 302 ; 321 ; 722
REPN: AFCRL 71 0463
SUJO: 3-132-210 ; 3-259-400
TITL: PROGRAM FOR COMPUTING NEAR FIELDS OF THIN WIRE ANTENNAS (U), 42 P.,
(U)

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24459

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copy: 1 id: 56701-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 24631
CLSS: U

CORP: NATO
DATE: 7202
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
DESC: Civil Defense transattack measures medical treatment L1
DESC: Nuclear Weapon Effects on animals thermal L1
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: Nuclear Weapon Effects on animals blast shock L1
DESC: HANDBOOK
DESC: Nuclear Weapon Effects on animals integrated effects L1
REPN: AMEDP 6 PT. 1
SUJO: 3-311-000 ; 3-312-000 ; 3-312-100 ; 3-313-000 ; 3-315-000 ;
3-476-200
TITL: NATO HANDBOOK MEDICAL EFFECTS ON NBC OPERATIONS; PT. 1, NUCLEAR (U),
CA. 300 P., (U)

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24631
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copy: 1 id: 56851-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 24951
AUTH: ORNDORFF R.M. ; HAMMER E.L. ; GRAF N.A.
CLSS: U
CORP: HUGHES AIRCRAFT CO. (CULVER CITY, CA)
DATE: 7112
DESC: SIMULATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 THIN FILM RESISTORS
EFFT: TREE
REPN: SAMSO TR 71 301
SUJO: 3-222-000 ; 3-229-000
TITL: RADIATION TESTING OF HARDENED ELECTRONIC COMPONENTS (ADDENDUM) (U),
8 P., (U)
TREE: 320

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24951
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copy: 1 id: 57060-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 25438
ABS: This revision of chapter 10 of DNA 1240, underwater explosion
handbook, differs from the original version in that a complete
discussion of surface bursts is added. Specific methodologies that
are currently available are mentioned, and quantitative descriptions
of the radiological environments of the test bursts in each category
have been added to provide a more realistic assessment of the

radiological environments that may be encountered.

AUTH: SHNIDER R.W.
CLSS: SRD
CORP: URS RESEARCH CO. (SAN MATEO, CA)
DATE: 7211
DESC: INPUT FOR DNA 1240
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: Nuclear Weapon Environment Thermal Output source strength total
intensity L1
REPN: URS 7204 7
TSHO: WATER-SURFACE ; UW
SUJO: 1-210-000 ; 2-225-100
TEMP: B3167
TITL: THERMAL AND NUCLEAR RADIATION ENVIRONMENTS PRODUCED BY NUCLEAR WATER
BURSTS (U), 52 P., (SRD)

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25438
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copy: 1 id: 57428-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 25702
ADNO: C022489
AUTH: SHNIDER R.W.
CLSS: CRD
CORP: URS RESEARCH CO. (SAN MATEO, CA)
DATE: 7211
DESC: Nuclear Weapon Environment fallout intensity contours patterns L1
DESC: HANDBOOK
TSHO: WATER-SURFACE ; UW
SUJO: 2-225-100
TEMP: B3956 ; B8405 (MF)
TITL: NATURE OF THE RADIOACTIVE DEBRIS AND NUCLEAR RADIATION ASSOCIATED
WITH WATER-SURFACE AND UNDERWATER NUCLEAR BURSTS; PROPOSED REVISION
TO CHAPTER 9 OF DNA 1240 (U), 52 P., (CRD)

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25702
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copy: 1 id: 57611-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 25769
ADNO: B017226L
CLSS: U
CORP: ROCKWELL INTERNATIONAL (LOS ANGELES, CA)
DATE: 7211
DESC: Nuclear Weapon Effects electronic pieceparts magnetic devices L1
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: EXPERIMENTAL SURVEY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: TFD 72 1257 VOL. 1
SUJO: 3-212-000 ; 3-221-000 ; 3-222-000 ; 3-225-000
TITL: SUMMARY OF COMPONENT RADIATION TESTS PERFORMED DURING FISCAL YEAR
1972; VOL. 1 (U), CA. 300 P., (U)
TREE: 320 ; 343 ; 310

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25769

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copy: 1 id: 57656-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 26623
AUTH: KALMA A.H. ; NABER J.A.
CLSS: SRD
CONN: DAHC 60 69 C 0106
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA)
DATE: 7101
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1

EFFT: TREE
REPN: GULF RT 11020R
SUJO: 3-133-000
TEMP: 79488
TITL: EVALUATION OF IONIZING RADIATION EFFECTS ON INFRARED DETECTORS;
INTERIM SUMMARY REPORT (U), 139 P., (SRD)

TREE: 361

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26623

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copy: 1 id: 58288-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 26811
AUTH: BRIDGES J.E. ; HOFFMAN J. ; WOUTERS L.F.
CLSS: C
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)
DATE: 7100
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1

DESC: SUMMARY
EMPF: 799
REPN: LOC 71 38 ; LOC 71 37

SUJO: 4-170-000
TEMP: B4787
TITL: DETERMINATIONS (JULY 1, 1971) OF THE DNA EMP PROTECTION PANEL; "THE VIEW FROM THE OTHER SIDE OF THE BLACK HOLE" (U), 46 P., (C)

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26811
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copy: 1 id: 58425-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: 26963
AUTH: KALMA A.H. ; NABER J.A.
CLSS: S
CONN: DAHC 69 C 0106
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA)
DATE: 7205
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1
DESC: THEORY EXPERIMENTAL
EFFT: TREE
REPN: GULF RT A11082
SUJO: 3-133-000
TEMP: A1976
TITL: EVALUATION OF IONIZING RADIATION EFFECTS ON INFRARED DETECTORS (U),
226 P., (S)

TREE: 361

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26963
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copy: 1 id: 58556-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 28066
AUTH: HENRY K.W.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA)
DATE: 7104
DESC: THEORY TABULAR CODE
DESC: Simulation Facilities Techniques blast shock mechanical testing L1
REPN: UCRL 51035
SUJO: 4-214-000
TITL: TECHNIQUE FOR MEASURING THE PRESSURE, VOLUME, ENTHALPY, AND
RESISTANCE OF EQUILIBRIUM THERMODYNAMIC STATES OF LIQUID METALS AT
HIGH TEMPERATURES AND PRESSURES (U), 203 P., (U)

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28066
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copy: 1 id: 59414-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 28146

ABS: Ground forces operating in the nuclear environment will face exposure to radiation as a normal hazard of battle. Commanders must consider the effects of radiation on the combat efficiency of their units and their ability to accomplish assigned missions. Radiation will influence the commanders' decisions on the battlefield; a system of radiation exposure control is necessary to permit an evaluation of relative hazards. The fundamental requirements of a radiation exposure control system are the abilities to determine radiological status of a unit prior to exposure, to measure or predict any new dose to a unit with accuracy, and to assess the effect of any new exposure upon the previous radiological status in terms of unit effectiveness.

ABS: This, in turn, requires a method of determining basic radiation exposure data, a system of recording this data, and a system of utilization to permit assessment of the effect of subsequent radiation on unit effectiveness. The overall conclusion of the thesis is that the current system of radiation exposure control is incapable of providing the commander on the nuclear battlefield with the required information.

ADNO: A067462

AUTH: INGMANN J.F.

CLSS: U

CORP: ARMY COMMAND AND GENERAL STAFF COLLEGE (FT. LEAVENWORTH, KS)

DATE: 7100

DESC: Nuclear Weapon Effects on animals ionizing radiation L1

DESC: Nuclear Warfare Theater operations scenarios vulnerability L1

DESC: TABULAR

SUJO: 3-312-000 ; 3-411-300

TITL: RADIATION EXPOSURE CONTROL ON THE NUCLEAR BATTLEFIELD (U), 151 P.,
(U)

TNFF: 4850 ; 4860

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28146

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copy: 1 id: 59483-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 28953

ADNO: B042397L

AUTH: SEBRANT Y.V.

CLSS: U

CORP: ARMY MEDICAL INTELLIGENCE AND INFORMATION AGENCY (FT. DETRICK, MD)

DATE: 7206

DESC: Nuclear Weapon Effects on animals ionizing radiation chronic

external L1

LA: USSR
REPN: AMIA K 0441
SUJO: 3-312-210
TITL: BIOLOGICAL EFFECT OF EXTERNAL BETA RADIATION (U), 103 P., (U)

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28953

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copy: 1 id: 60102-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 29049
ADNO: B042761L
CLSS: U
CORP: ARMY MEDICAL INTELLIGENCE AND INFORMATION AGENCY (FT.
DETRICK-FREDERICK, MD)

DATE: 7110
DESC: Cross Sections gamma L1
DESC: THEORY EXPERIMENTAL
DESC: Cross Sections electron L1
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1

LA: RUSSIAN
REPN: AMIA K 0425
SUJO: 2-223-100 ; 9-830-000 ; 9-850-000
TITL: PROBLEMS IN MONITORING AND PROTECTION AGAINST RADIATION (U), 244 P.,
(U)

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29049

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copy: 1 id: 60148-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 29243
ADNO: B044382L
AUTH: NEKOVALEVA N.A. ; RAKHMATULLAYEV A. ; LITVINENKO T.G.
CLSS: U
CORP: ARMY MEDICAL INTELLIGENCE AND INFORMATION AGENCY (FT. DETRICK, MD)
DATE: 7112

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: EXPERIMENTAL

LA: USSR
REPN: AMIA K 0897
SUJO: 3-312-100
TITL: HISTOCHEMICAL STUDY OF ALKALINE PHOSPHATASE AND GLYCOGEN IN BLOOD
LEUCOCYTES DURING EXPERIMENTAL ACUTE RADIATION SICKNESS (U), 6 P.,
(U)

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29243

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copy: 1 id: 60283-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 29244
ADNO: B042948L
AUTH: KOVALEV I.F.
CLSS: U
CORP: ARMY MEDICAL INTELLIGENCE AND INFORMATION AGENCY (FT. DETRICK, MD)
DATE: 7200
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
DESC: SURVEY
LA: USSR
REPN: AMIA K 0401
SUJO: 3-312-000
TITL: FUNCTIONAL MECHANISMS IN THE DEVELOPMENT OF RADIOBIOLOGICAL EFFECTS
(U), 324 P., (U)

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copy: 1 id: 60284-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 29410
ADNO: B045055L
AUTH: SEMENOV V.A. ; UL"YANOV M.I. ; TORBENKO B.P. ; NAZAROV V.A. ;
CORACHEV A.N. ; YANOVSKAYA E.M.
CLSS: U
CORP: ARMY MEDICAL INTELLIGENCE AND INFORMATION AGENCY (FT. DETRICK, MD)
DATE: 7112
DESC: Nuclear Weapon Effects on animals integrated effects L1 ANIMAL
EXPERIMENTS
DESC: EXPERIMENTAL
LA: USSR
REPN: USAMIA K 0753
SUJO: 3-315-000
TITL: COMBINED INJURIES (CRUSH SYNDROME AND ACUTE RADIATION DISEASE) (U),
11 P., (U)

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29410

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copy: 1 id: 60416-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 29938

ADNO: B048058L
AUTH: GORELOV L.
CLSS: U
CORP: ARMY MEDICAL INTELLIGENCE AND INFORMATION AGENCY (FT. DETRICK, MD)
DATE: 7202
DESC: SUMMARY
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L5
REPN: USAMIA K 1380
SUJO: 3-312-100
TITL: AFTER A NUCLEAR EXPLOSION (POSLE VZRYVA) (U), 10 P., (U)

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29938

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copy: 1 id: 60786-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 30118
AUTH: HELD E.E.
CLSS: U
CONN: AT (26 1) 269
CORP: UNIVERSITY OF WASHINGTON, LABORATORY OF RADIATION ECOLOGY (SEATTLE,
WA)
DATE: 7102
DESC: Nuclear Weapon Effects on animals ionizing radiation L1
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1
DESC: EXPERIMENTAL
REPN: NVO 269 8 (REV 1)
SUJO: 2-223-100 ; 3-312-000
TITL: RADIOLOGICAL RESURVEY OF ANIMALS, SOILS AND GROUNDWATER AT BIKINI
ATOLL, 1969-1970 (U), 44 P., (U)

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30118

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copy: 1 id: 60907-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 32210
ADNO: 894612L
AUTH: BREAUX H.J. ; HARTWIG G.E. JR.
CLSS: U
CORP: ARMY BALLISTIC RESEARCH LABS. (ABERDEEN PROVING GROUND, MD)
DATE: 7204
DESC: THEORY
DESC: Directed Energy Weapons Lasers Effects Energy absorption L1
REPN: BRL R 1574
SUJO: 3-613-010
TITL: SOLUTION TO A MOVING SOURCE HEAT CONDUCTION MODEL FOR DETERMINING
TEMPERATURE RISE IN THICK PLATES, THIN PLATES AND SEMIINFINITE

SOLIDS EXPOSED TO HIGHLY FOCUSED LASER RADIATION (U), 53 P., (U)

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32210

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copy: 1 id: 62864-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 32375
ADNO: 521572L
AUTH: GATES D.C. ; DEMETER L.J. ; NOETH .A.
CLSS: C
CONN: F 29601 69 C 0103
CORP: PHYSICS INTERNATIONAL (SAN LEANDRO, CA)
DATE: 7207
DESC: Directed Energy Weapons Lasers Applications High-intensity radiation
field generation L1
DESC: THEORY EXPERIMENTAL
DESC: Simulation Facilities Techniques x-ray effects L1
REPN: AFWL TR 72 29
SUJO: 3-616-750 ; 4-231-000
TEMP: C1884
TITL: INITIAL USE OF 500-KJ DENSE PLASMA FOCUS FACILITY (U), 76 P., (C)
TREE: 642

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32375

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 32683

ABS: Various research investigations were conducted in support of the gas dynamic laser (GDL) exploratory development program. These included extensive calculations of beam propagation through an inhomogeneous medium bounded by a series of apertures, the use of a Faraday rotator as an optical isolator suitable for application to high power 10.6 micron Master Oscillator Power Amplifier (MOPA) systems, and the fabrication of contoured mirrors by sputtering techniques to improve beam quality. In addition, an experimental investigation was conducted of regenerative ring amplifiers and unstable ring resonators. Holographic techniques were explored for purposes of flow visualization in a GDL optical cavity. A theoretical model was formulated predicting beam quality degradation due to flow disturbances in a GDL amplifier.

ABS: Additional theoretical studies included development of a theory of a pulsed GDL amplifier, formulation of a model describing the observed radiation driven plasma wave, analysis of the diffraction-grating attenuator as a means for measuring the quality of a high-power beam, and a possible explanation of observed temporal instabilities

in the output of a GDL. Finally, the effects of thermal blooming on the quality of a high power beam are described. (author)

ADNO: 524313L
AUTH: SZIKLAS E.A.
CLSS: S
CONN: F 29601 71 C 0053 ; F 29601 71 C0054
CORP: PRATT AND WHITNEY AIRCRAFT (WEST PALM BEACH, CA)
DATE: 7212
DESC: Directed Energy Weapons Lasers Technology gas dynamic L1
DESC: THEORY EXPERIMENTAL
DESC: Directed Energy Weapons Lasers Technology Propagation L1
REPN: AFWL TR 72 198 V.2
SUJO: 3-611-051 ; 3-611-300
TEMP: C1885 V.2
TITL: LASER RESEARCH AND DEVELOPMENT PROGRAMS, VOL. 2 APPENDIXES, HIGH POWER LASER RELATED RESEARCH INVESTIGATIONS (U), 364 P., (S)

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32683

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copy: 1 id: 63322-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 32947

ABS: A comprehensive series of experiments on the effects of high-power laser radiation on materials and subsystems at 10.6-and 2.8-microns wavelength has been completed by the Air Force Weapons Laboratory (AFWL). The lasers used to obtain the results presented here include the AVCO mark V3 laser located in Havervill, Massachusetts, the aerospace hydrogen fluoride (HF) laser in El Segundo, California, and an electrical discharge traverse flow 2-kW CO2 laser at AFWL. Considerable emphasis was placed on beam analysis at the target location. Multiple methods of measuring total power and beam intensity profile were used on each laser to ensure maximum control of the beam parameters. Furthermore, beam absorption in the self-created ejecta was measured for 10.6 micron radiation.

ABS: Surface absorption coefficients for continuous radiation were compared with those for repetitive pulses of the order of milliseconds in length for several types of materials. (author, P. 1)

ADNO: 523700L
AUTH: GILBERT K.G. ; LAUGHLIN W.T. ; MCCANLESS W.V.
CLSS: S
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, NM)
DATE: 7202
DESC: EXPERIMENTAL
DESC: Directed Energy Weapons Lasers Effects Missiles L1
REPN: AFWL TR 71 159
SUJO: 3-613-220
SYST: FALCON
TEMP: C1995
TITL: MATERIAL EFFECTS OF HIGH POWER LASER RADIATION II (U), 96 P., (S)

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copy: 1 id: 63584-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 33335
AUTH: PONZINI R.G. ; KEITH J.R.
CLSS: SRD CNWDI
CONN: DAHC 60 72 C 0008
CORP: KAMAN SCIENCES CORP. (COLORADO SPRINGS, CO)
DATE: 7212
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry fission
fragments debris L1
DESC: TABULAR
REPN: K 72 924(M) : K 25917
SOCE: ██████████ SPRINT ; W-66
SUJO: 2-312-600
TEMP: A2848
TITL: REVIEW OF RADIATION TRANSPORT FOR BLACKOUT APPLICATIONS (U), 13 P.,
(SRD CNWDI)

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copy: 1 id: 64026-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 33959
AUTH: NEWELL D.M. ; DIEDERICH D.
CLSS: U
CONN: NAS1 9000
CORP: MARTIN MARIETTA CORP. (DENVER, CO)
DATE: 7203
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1 OPTICAL ISOLATORS
EFFT: TREE
REPN: TN 3770162 V.2
SUJO: 3-133-000
TITL: VIKING 75 PROJECT; VIKING PIECE PART NUCLEAR RADIATION TEST REPORT;
VOL. 2, OPTICALLY-COUPLED ISOLATORS (U), 38 P., (U)
TREE: 361

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33959
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copy: 1 id: 64658-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: 33960
AUTH: NEWELL D.M. ; DIEDERICH D.
CLSS: U
CONN: NAS1 9000
CORP: MARTIN MARIETTA CORP. (DENVER, CO)
DATE: 7205
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: EXPERIMENTAL
EFFT: TREE
REPN: TN 3770162 V.4
SUJO: 3-221-000
TITL: VIKING 75 PROJECT; VIKING PIECE PART NUCLEAR RADIATION TEST REPORT;
VOL. 4, POWER TRANSISTORS (U), 20 P., (U)
TREE: 310

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33960
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copy: 1 id: 64659-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 33989
ABS: This manual provides guidance on the defensive measures required against chemical and biological agents, and the initial effects and subsequent radiological hazards from nuclear bursts. The manual also provides guidance on defensive measures required against enemy irritant agents (similar to US riot control agents). The manual is divided into four parts as follows: part one, introduction to CBR and nuclear defense, describes the nature of potential enemy chemical, biological, and nuclear and radiological threats and the United States CBR and nuclear defensive doctrine. Part two, CBR and nuclear defense guidance for the individual, provides guidance for individual defense against enemy chemical, biological, and nuclear attacks, and guidance on the defensive measures required during operations in a chemical, biological, or radiological environment.
ABS: Part three, CBR and nuclear defense guidance for the unit commander, provides guidance for the commanders of company and comparable size units on defense against chemical, biological, and nuclear attacks and on the defensive measures required during operations in a chemical, biological, or radiological environment. Part four, CBR and nuclear defense guidance for the commander and staff, provides general guidance to commanders above company level and staff officers on CBR and nuclear defense responsibilities and planning and on organization for CBR defense.

CLSS: U
CORP: ARMY, DEPARTMENT OF
DATE: 7105
DESC: Nuclear Warfare Theater integrated battlefield NBC protection L1

DESC: HANDBOOK
REPN: FM 21 40
SUJO: 3-415-700
TITL: CHEMICAL, BIOLOGICAL, RADIOLOGICAL, AND NUCLEAR DEFENSE (U), CA. 100
P., (U)

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copy: 1 id: 64687-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 34195
AUTH: CHANDLER D. ; DEVORE J. ; THOMPSON J.
CLSS: SRD
CONN: DASA 01 71 C 0174
CORP: GE TEMPO (SANTA BARBARA, CA)
DATE: 7202
DESC: THEORY
DESC: Nuclear Weapon Effects space systems L1
EFFT: X-RAY ; TREE
REPN: 72 TMP 8
TSHO: HI-ALT
SUJO: 3-114-000
TEMP: A0315
TITL: SATELLITE DAMAGE DUE TO PROMPT RADIATION FROM A NUCLEAR EXPLOSION
(U) 30 30 P., (SRD)

TREE: 393

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34195

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copy: 1 id: 64886-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 34536
ABS: This report describes chemical, biological, radiological weapons and
methods of delivery, detection, and decontamination. Various
chemical agents, their effects, and protective measures are
discussed in detail. Utilization of protective clothing and
protective shelters during a CBR operation.

ADNO: 745829

AUTH: MANETS F.I. ; SEVOSTIANOV P.F. ; DUDNIKOV A.F. ; KONDRASHOV A.A.

CLSS: U

CORP: ARMY FOREIGN SCIENCE AND TECHNOLOGY CENTER (

DATE: 7204

DESC: Nuclear Warfare Theater integrated battlefield NBC protection L1

DESC: SUMMARY

LA: USSR

REPN: FSTC HT 23 1398 71 ; ACSI K 0515

SUJO: 3-415-700
TITL: PROTECTION FROM MASS DESTRUCTION WEAPONS (U), 51 P., (U)

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34536
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copy: 1 id: 65216-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 35310
ADNO: B956316L
AUTH: WEINERT P.D.
CLSS: U
CORP: ARMY ENGINEER RESEARCH GROUP, RESEARCH AND DEVELOPMENT DIV. (FT.
BELVOIR, VA)

DATE: 7106
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1

DESC: SURVEY
REPN: RT 1027
SUJO: 4-241-000
TITL: NEUTRON SOURCE FACILITY STUDY (NUF) (U), 261 P., (U)

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copy: 1 id: 66011-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 35444
CLSS: U
CORP: INTERNATIONAL COMMISSION ON RADIATION UNITS AND MEASUREMENTS (WASH.,
DC)

DATE: 7107
DESC: THEORY
DESC: test instruments nuclear radiation dosimeters radiacs L1
DESC: Nuclear Weapon Effects on animals ionizing radiation L5

REPN: ICRU 19
SUJO: 3-312-000 ; 4-346-000
TITL: RADIATION QUANTITIES AND UNITS (U), 21 P., (U)
TREE: 655

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copy: 1 id: 66147-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 35445
CLSS: U
CORP: INTERNATIONAL COMMISSION ON RADIATION UNITS AND MEASUREMENTS (WASH.,
DC)
DATE: 7110
DESC: test instruments nuclear radiation L1
DESC: SURVEY
REPN: ICRU 20
SUJO: 4-340-000
TITL: RADIATION PROTECTION INSTRUMENTATION AND ITS APPLICATION (U), 60 P.,
(U)
TREE: 650
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35445
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copy: 1 id: 66148-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 35446
CLSS: U
CORP: INTERNATIONAL COMMISSION ON RADIATION UNITS AND MEASUREMENTS (WASH.,
DC)
DATE: 7205
DESC: test instruments nuclear radiation beta electron beams L1
REPN: ICRU 21
SUJO: 4-344-000
TITL: RADIATION DOSIMETRY: ELECTRONS WITH INITIAL ENERGIES BETWEEN 1 AND
50 MEV (U), 64 P., (U)
TREE: 654
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35446
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copy: 1 id: 66149-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 35447
CLSS: U
CORP: INTERNATIONAL COMMISSION ON RADIATION UNITS AND MEASUREMENTS (WASH.,
DC)
DATE: 7206
DESC: test instruments nuclear radiation L1
DESC: SURVEY
REPN: ICRU 22
SUJO: 4-340-000
TITL: MEASUREMENT OF LOW-LEVEL RADIOACTIVITY (U), 66 P., (U)
TREE: 650
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copy: 1 id: 66150-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 36330
AUTH: MCGEVNA V.G. ; SACCENTI J.C. ; MCNEILLY J.H.
CLSS: U
CORP: BALLISTIC RESEARCH LAB. (ABERDEEN PROVING GROUND, MD)
DATE: 7209
DESC: test instruments nuclear radiation dosimeters radiacs L5
DESC: EXPERIMENTAL
DESC: Material Properties Ceramics Optical Materials L1
REPN: BRL 1614 ; BRL R 1614
SUJO: 4-346-000 ; 7-510-000
TITL: MEASUREMENT OF THE PYROELECTRIC COEFFICIENT OF 65/35 PZT (U), 46 P.,
(U)

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copy: 1 id: 67057-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 37465
AUTH: BOQUIST W.P. ; CRAWLEY P.L.
CLSS: U
CONN: DNA 001 72 C 0039
CORP: TECHNICAL INTERNATIONAL CORP. (BEDFORD, MA)
DATE: 7202
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1 CHEMICAL RELEASE
DESC: EXPERIMENTAL
REPN: TIC 733
SUJO: 4-820-600
TITL: OPERATION BARBIZON; OCTOBER 1971, KAUAI TEST RANGE, HAWAII; OPTICAL
MEASUREMENTS OF EXPERIMENTAL BARIUM RELEASES (U), 28 P., (U)

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37465

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copy: 1 id: 68232-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: 39393
ABS: Station log with considerable film calibration information including
actual film strips. Dial Flower films loading and camera
information. Lab notebook by Woolaver contains a lot of early

fireball size data for many US shots, primarily derivative, used in a bhangmeter study.

ACCD: 89 05 16
AUTH: WOOLAVER L.B. ; PIERSON A.H.
CLSS: S
CORP: HSS, INC. (BEDFORD, MA)
DATE: 7200
DESC: EXPERIMENTAL
DESC: Nuclear weapon test yield L1
DESC: Nuclear Test Simulation Field Programs experiment design optical radiation experiments UV visible IR L1
SHOT: FRENCH (72-SERIES) ; FRENCH (71-SERIES) ; FRENCH (73-SERIES)
TSHO: LOW-ALT
SUJO: 4-820-600 ; 4-835-000
TEMP: D0343 ; D0344 ; D0345 ; D1163 ; D1164-01-03
TITL: NOTEBOOKS FOR DIAL TRAIN AND DIAL FLOWER, HULA HOOP (U)
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39393
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copy: 1 id: 70445-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: 39730

ABS: The objective of the DSP Piece-Parts Test Program was to determine the ultimate capability of radiation-sensitive piece-parts to survive a Flash X-ray (FXR) environment. To accomplish this goal, electronic piece parts planned for use on the DSP Phase II spacecraft were exposed to the environment generated by the PI 1140 FXR at successively higher levels until piece p[art failure occurred, or until the maximum capability of the FXR facility was reached. In order to provide a realistic assessment of the actual hardness level, the piece parts were tested in their worst-case in-circuit application. Those transistors and diodes which survived were then tested in a discrete mode, also, to obtain radiation response characterization data (primary and secondary photocurrent and radiation storage time) at as high a level as possible.

ABS: The ultimate objective was to identify piece part vulnerabilities at the high radiation levels.

ACCD: 90 01 17
CLSS: C
CONN: F 04701 71 C 0131
CORP: TRW (Redondo Beach, CA)
DATE: 7212
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects space systems spacecraft or satellites electronics L5
REPN: 16439 57 010 601
SUJO: 3-114-300 ; 3-221-000
TEMP: D0707

TITL: Semiconductor Radiation Testing Study (U), 392 P., (C)
TREE: 310

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copy: 1 id: 70844-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2418
ADNO: 725161
AUTH: FISHER R.H. ; KRUGER R.A.
CLSS: U
CCDE: FSCATT ; PHOTRAN
CONN: DASA 01 68 C 0072
CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA CA)
DATE: 7105
DESC: THEORY TABULAR
DESC: Cross Sections x-ray L1
DESC: Radiation Transport x-ray L1
REPN: DASA 2418 ; 3SCR 119
SUJO: 9-640-000 ; 9-840-000
TITL: NUMERICAL TREATMENT OF SCATTERING AND FLUORESCENCE IN PLANE GEOMETRY
(U), 34 P., (U)

TREE: 980
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DASA 2418

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copy: 1 id: 75413-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2502
ADNO: 514901
AUTH: TAMOR S.
CLSS: CRD 1
CONN: DASA 01 69 C 0068
CORP: GENERAL ELECTRIC CO (PHILADELPHIA PA)
DATE: 7104
DESC: Radiation Transport x-ray L1
DESC: THEORY
DESC: Cross Sections x-ray L1
REPN: DASA 2502
SUJO: 9-640-000 ; 9-840-000
TEMP: 77746
TITL: STUDIES IN THE PHYSICS OF NON-LTE RADIATIVE TRANSFER, FINAL REPORT
(U), 45 P.,(CRD)

TREE: 980
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DASA 2502

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2604
ADNO: 720387
AUTH: RUST B.W. ; BURRUS W.R.
CLSS: U
CCDE: OPTIME ; SLOP
CONN: DASA 01 68 C 0117
CORP: TENNECOMP SYSTEMS INC (OAK RIDGE TENN)
DATE: 7101
DESC: test instruments nuclear radiation neutron L1
DESC: THEORY TABULAR
REPN: TP 0145 ; DASA 2604
SUJO: 4-342-000
TITL: SUBOPTIMAL METHODS FOR SOLVING CONSTRAINED ESTIMATION PROBLEMS (U),
87 P., (U)

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DASA 2604

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copy: 1 id: 75595-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2616
ADNO: 886479
AUTH: RAYMOND J.P. ; POCOCK D.N. ; SROUR J.R. ; JOHNSON R.E. ; FUJII G.T.
CLSS: U
CONN: DASA 01 70 C 0093
CORP: NORTHROP CORPORATE LABS (HAWTHORNE CA)
DATE: 7107
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
MSI LSI MOS AND THIN FILM SIMULATION (FEBETRON FLASH X-RAY AND TRIGA
AND COBALT 60) -
REPN: NCL 70 77R ; DASA 2616
SUJO: 3-222-000
TITL: RADIATION EFFECTS ON MSI/LSI ELECTRONIC DEVICES AND CIRCUITS, FINAL
REPORT (U), 175 P., (U)
TREE: 325

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DASA 2616

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2630
ADNO: 721094
AUTH: YELVERTON J.T. ; DAMON E.G. ; JONES R.K. ; CHIFFELLE T.L. ; LUFT
U.C.
CLSS: U
CONN: DA 49 146 XZ 359
CORP: LOVELACE FOUNDATION FOR MEDICAL EDUCATION + RESEARCH (ALBUQUERQUE
NM)
DATE: 7101
DESC: Nuclear Weapon Effects on animals blast shock pressure L1
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: SIMULATION
REPN: DASA 2630
SUJO: 3-311-100 ; 3-312-100
TITL: EFFECTS OF IRRADIATION AND BLAST ON PULMONARY FUNCTION IN SHEEP (U),
28 P., (U)

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DASA 2630

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2637
ADNO: 517972
AUTH: MIRANDA H.A. JR. ; HORAN J.J.
CLSS: SRD 1
CCDE: ZZ
CONN: DASA 01 69 C 0076
CORP: GCA CORP (BEDFORD MASS)
DATE: 7106
DESC: Nuclear Weapon Environment Fallout isotope concentrations L1 BA SR
LA

DESC: SPARTAN ; CODE THEORY
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
DESC: Nuclear Weapon Environment fallout fractionation
DESC: Nuclear Weapon Effects EM Propagation absorption blackout L1 HF VHF
DESC: Nuclear Weapon Environment radiation decay beta decay L1
DESC: Nuclear Weapon Environment radiation decay gamma decay L1
REPN: GCA TR 71 4 G ; DASA 2637
SHOT: TEAK ; KINGFISH
TSHO: HI ALT
SUJO: 2-223-100 ; 2-223-420 ; 2-223-430 ; 2-223-500 ; 2-311-000 ;
2-321-100

TEMP: 81131
TITL: INTEGRATED ANALYSIS OF LONG TERM DEBRIS MOTION AND EFFECT ON RADAR
AND COMMUNICATIONS SYSTEMS (U), 130 P., (SRD)

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DASA 2637

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2640
ADNO: 722713
AUTH: COLLINS D.G. ; WELLS M.B.
CLSS: U
CCDE: FLASH, MIE II, SHINE
CONN: DASA 01 68 C 0169
CORP: RADIATION RESEARCH ASSOCIATES INC (FORT WORTH TEX)
DATE: 7104
DESC: Nuclear Weapon Environment Visible Output angular distribution L1
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
DESC: THEORY
REPN: RRA T7017 ; DASA 2640
SUJO: 1-430-000 ; 5-200-000
TITL: COMPUTER PROCEDURE FOR CALCULATING TIME DEPENDENT LIGHT SCATTERING
IN SPHERICAL-SHELL ATMOSPHERES (U), 135 P., (U)

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DASA 2640

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copy: 1 id: 75632-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2641
ADNO: 722714
AUTH: COLLINS D.G. ; WELLS M.B.
CLSS: U
CCDE: ZAP ; TPART II
CONN: DASA 01 68 C 0169
CORP: RADIATION RESEARCH ASSOCIATES INC (FORT WORTH TEX)
DATE: 7104
DESC: Absorption Spectrum Transmission Opacity of Natural Heated Air L1
DESC: TABULAR THEORY
DESC: Nuclear Weapon Environment Visible Output angular distribution L1
REPN: RRA T7016 ; DASA 2641
SUJO: 1-430-000 ; 5-200-000
TITL: COMPUTER PROCEDURE FOR CALCULATING TIME DEPENDENT LIGHT SCATTERING
IN PLANE PARALLEL ATMOSPHERE (U), 65 P., (U)

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DASA 2641

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copy: 1 id: 75633-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2643

ADNO: 515241
AUTH: STAHL R.H.
CLSS: SFRD 1
CONN: DASA 01 68 C 0161
CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA CA)
DATE: 7107
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects missile systems strategic L1 TREE HARDNESS
ASSURANCE PROCEDURES
DESC: POSEIDON
REPN: 3SCR 372 R ; DASA 2643
SUJO: 3-112-100 ; 3-221-000
TEMP: 79597
TITL: CONTROL PROCEDURES USED IN THE PRODUCTION OF MISSILE-GRADE
RADIATION-HARDENED SEMICONDUCTOR COMPONENTS (U), 78 P., (SFRD)

TREE: 610

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DASA 2643

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copy: 1 id: 75635-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2646
ADNO: 882756L
AUTH: CLADIS J.B. ; DAVIDSON G.T. ; FRANCIS W.E. ; NEWKIRK L.L. ; OSSAKOW
S.L. ; WALT M.

CLSS: U

CONN: DA 49 146 XZ 570

CORP: LOCKHEED MISSILES + SPACE CO (PALO ALTO CA)

DATE: 7103

DESC: THEORY EXPERIMENT

DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic
Perturbations L1 SOUTHERN CONJUGATE DISTURBANCES

DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
ELECTRON TRAPPING

REPN: LMSC/N 03 71 1 ; DASA 2646

SHOT: STARFISH

TSHO: HI-ALT

SUJO: 2-217-000 ; 2-530-000

TITL: TRAPPED RADIATION AND MAGNETOSPHERIC PROCESSES, ANNUAL REPORT (U),
99 P., (U)

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DASA 2646

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copy: 1 id: 75638-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2652
ADNO: 519477
AUTH: BROWN R.R. ; CALDWELL R.S. ; JOHNSTON A.H. ; LOWREY A.R. ; MILLIMAN
L.D. ; ROSENBERG C. ; SEILER R.F.
CLSS: C 3
CCDE: ECAP ; CIRCUS ; NET ; TRAC ; SECURE
CONN: DASA 01 68 C 0038
CORP: BOEING CO. (SEATTLE, WASH.)
DATE: 7112
DESC: Nuclear Weapon Effects electronic subsystems L1
DESC: Nuclear Weapon Effects electronic pieceparts L1
DESC: TREE ; SYMPOSIUM TUTORIAL
REPN: DASA 2652 ; D2 125895 1
SUJO: 3-210-000 ; 3-220-000
TEMP: A0387
TITL: SYMPOSIUM ON TRANSIENT RADIATION EFFECTS AND TECHNIQUES FOR CIRCUIT
HARDENING (STRETCH) (U), 261 P., (C)
TREE: 300
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DASA 2652
.endblock
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copy: 1 id: 75643-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2652 1
ADNO: 519478
AUTH: CALDWELL R.S. ; EGELKROUT D.W. ; SEILER R.F.
CLSS: SRD 1
CONN: DASA 01 68 C 0038
CORP: BOEING CO. (SEATTLE, WASH.)
DATE: 7202
DESC: Nuclear Weapon Environment Summaries L1
DESC: TREE X-RAY ; SYMPOSIUM TUTORIAL
DESC: Nuclear Weapon Effects electronic pieceparts L1
REPN: DASA 2652 1 ; D2 125895 7
SUJO: 1-000-000 ; 3-220-000
TEMP: A0388
TITL: SYMPOSIUM ON TRANSIENT RADIATION EFFECTS AND TECHNIQUES FOR CIRCUIT
HARDENING (STRETCH) (U), 180 P., (SRD)
TREE: 300
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DASA 2652 1
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copy: 1 id: 75644-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2653 1
ADNO: 520572

AUTH: SCHAIBLY J.H. ; WISCOMBE W.J.
CLSS: CRD 1
CCDE: VERATRAN ; IMTRAN ; VERASNAP ; SNPSHT ; VERA
CONN: DASA 01 70 C 0052
CORP: SYSTEMS, SCIENCE AND SOFTWARE (LA JOLLA, CA.)
DATE: 7204
DESC: THEORY CODE TABULAR
DESC: Radiation Transport x-ray L1
REPN: DASA 2653 1
SUJO: 9-640-000
TEMP: A0954
TITL: VERA CODE DEVELOPMENT AND APPLICATIONS, VOL. 1-IMPROVEMENTS IN THE
VERA SYSTEMOF CODES (U), 300 P., (CRD)
TREE: 980

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DASA 2653 1

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copy: 1 id: 75645-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2654 1
ADNO: 515756L
AUTH: BROWNELL D.H. ; KNOWLES C.P. ; TRIPLETT J.R. ; WEI M.H.
CLSS: SRD 1 CNWDI
CCDE: VERA 1-D ; VERA 2-D
CONN: DASA 01 70 C 0080
CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA CA)
DATE: 7105
DESC: EARLY TIME ; THEORY TABULAR
DESC: Radiation Transport x-ray L1
DESC: Fluid Mechanics hydrodynamics L1
DESC: Nuclear Weapon Phenomenology Fireball Internal Pressure Temperature
Density Particle Velocities L1 EARLY TIME EXPANSION
DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy
Coupling L1 EARLY TIME
DESC: Nuclear Weapon Environment X-ray Output rate L1
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1
REPN: DASA 2654 1 ; 3SCR 603 1
SOCE: WILDCAT
SUJO: 1-610-000 ; 1-640-000 ; 2-130-000 ; 2-150-000 ; 9-410-000 ;
9-640-000
TEMP: 79112
TITL: VERA 2-D PROGRAM, VOL. 1-MATHEMATICAL ANALYSIS AND CODE APPLICATIONS
(U), 247 P., (SRD CNWDI)
TREE: 930 ; 980

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DASA 2654 1

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copy: 1 id: 75647-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2663
AUTH: ARON W.A. ; RUBIN S.
CLSS: SRD 1
CCDE: TARP (UNFOLDING)
CONN: DASA 01 67 C 0079
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK CA)
DATE: 7102
DESC: test instruments x-ray effects L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L9 MING VASE
P.33-34
REPN: DASA 2663 ; PAU 6591
SHOT: MING VASE
SUJO: 1-620-000 ; 4-330-000
TEMP: 79428
TITL: TIME-DEPENDENT ANALYSIS OF RADIATION PULSE DATA (U), 96 P., (SRD)
TREE: 653

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DASA 2663

.endblock

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copy: 1 id: 75656-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2675
ADNO: 526 350
AUTH: MIRANDA H.A. JR. ; HORAN J.J.
CLSS: SRD 1
CONN: DASA 01 68 C 0129
CORP: GCA CORP/TECHNOLOGY DIV (BEDFORD MASS)
DATE: 7105
DESC: Nuclear weapon test yield L5 P3
DESC: Nuclear RDT&E Research Program Descriptions EM propagation
atmospheric chemistry L1
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1
DESC: Nuclear Test Simulation Field Programs experiment design
high-altitude debris L1
REPN: GCA TR 71 2 G ; DASA 2675
PROJ: 6
SHOT: HUNT DEER ; MILE HIGH ; MINERAL WATER ; MINK TAIL ; MISSING LINK ;
MISSILE CLOUD ; MIDAS KING ; HULLO DOLLY
SUJO: 4-120-000 ; 4-820-600 ; 4-822-000 ; 4-835-000
TEMP: 79086
TITL: STUDY OF PROGRAM 6 OPERATION MIGHTY SKY ROCKET BORNE INSTRUMENTATION
(U), 16 P., (SRD)

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DASA 2675

.endblock

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copy: 1 id: 75669-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2684
AUTH: BROOKS J. ; KALOS M.H. ; STEINBERG H.A. ; TROUBETZKOY E.S.
CLSS: SRD
CONN: DASA 01 70 C 0105
CORP: MATHEMATICAL APPLICATIONS GROUP, INC. (WHITE PLAINS, NY)
DATE: 7111
DESC: THEORY
DESC: Radiation Transport x-ray L1
REPN: DASA 2684 ; MAGI P 7003
SUJO: 9-640-000
TEMP: A0184
TITL: CLASSIFIED TITLE, 50 P., (SRD)
TREE: 980

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DASA 2684

.endblock

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copy: 1 id: 75677-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2686
AUTH: HIGGINBOTHAM M.L. ; REED L.L.
CLSS: SRD 1 CNWDI
CCDE: LUDWIG ; TOIL
CONN: DASA 01 70 C 0047
CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA CA)
DATE: 7102
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1 VERY EARLY TIME
DESC: Nuclear Test Simulation Field Programs experiment design underground
systems L1 CLOSURES
DESC: Radiation Transport x-ray L1
REPN: DASA 2686 ; 3SCR 442
TSHO: UG CONTAINED
SOCE: W-71
SUJO: 1-610-000 ; 4-829-300 ; 9-640-000
TEMP: 79426
TITL: COMPARISON OF DIFFERENT TECHNIQUES FOR CALCULATING FAST CLOSURE
SYSTEMS FOR UNDERGROUND NUCLEAR TESTS (U), 60 P., (SRD/CNWDI)

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DASA 2686

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copy: 1 id: 75679-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2687
ADNO: 516419L
AUTH: SHELTON F.H. ; KEITH J.R. ; EAMON J.C.
CLSS: SRD 1 CNWDI
CONN: DASA 01 68 C 0131
CORP: KAMAN SCIENCES CORP (COLORADO SPRINGS CO)
DATE: 7103
DESC: Nuclear Weapon Environment Initial Gamma angular distribution L1
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1
DESC: MK-2 RV SPRING SPARTAN HI ALT LOW ALT ; THEORY
DESC: Radiation Transport gamma L5
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L1
REPN: KN 774 71 1 ; DASA 2687
SOCE: MK-58 ; W-66 ; W-71
SUJO: 1-710-000 ; 1-720-000 ; 1-730-000 ; 1-740-000 ; 9-620-000
TEMP: 79407
TITL: NUCLEAR WEAPONS AS GAMMA RAY SOURCES, THE ENVIRONMENTS THEY PRODUCE,
AND SOME EFFECTS ON AEROSPACE SYSTEMS (U), 154 P., (SRD CNWDI)
TREE: 910

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DASA 2687

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copy: 1 id: 75680-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2688
ADNO: 516538L
AUTH: WILSON H.L. ; LINDLEY W.B.
CLSS: SRD 1 CNWDI
CCDE: GARNET ; CORONET
CONN: DASA 01 69 C 0012
CORP: GULF ENERGY AND ENVIRONMENTAL SYSTEMS CO (SAN DIEGO CA)
DATE: 7102
DESC: Radiation Transport L1
DESC: MONTE CARLO ; CODE
DESC: Fluid Mechanics hydrodynamics L1 RADIATION
REPN: GULF RT 11025 ; DASA 2688
SUJO: 9-410-000 ; 9-600-000
TEMP: 79491
TITL: INVESTIGATION OF EARLY TIME NUCLEAR WEAPON EFFECTS, FINAL REPORT
(U), 268 P., (SRD CNWDI)

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DASA 2688

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copy: 1 id: 75681-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: DASA 2691
ADNO: 518627
AUTH: COLEMAN W.A. ; PARKINSON E.R. ; STEVENS C.A.
CLSS: SRD 1
CCDE: ONDINE ; 05R-NIES ; OGRE
CONN: DASA 01 70 C 0067
CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA.)
DATE: 7104
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry x-ray

L1

DESC: EARLY TIME CLOSE IN ; THEORY TABULAR
DESC: Radiation Transport x-ray L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1

FIELDS COMPTON CURRENT

DESC: Nuclear Weapon Environment X-ray Output rate L1 161 L1
DESC: Nuclear Weapon Effects meteorological Atmospheric Heating L1
EMPF: 223 ; 240
REPN: DASA 2691 ; SAI 71 204 LJ
TSHO: LOW ALT ; SURFACE
SOCE: MACE
SUJO: 1-620-000 ; 1-640-000 ; 2-312-400 ; 2-510-000 ; 2-730-000 ;
9-640-000

TEMP: A0139

TITL: X-RAY EMP PROBLEMS -TRANSPORT AND FIELD PREDICTIONS (U), 172 P.,
(SRD)

TREE: 930

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DASA 2691

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copy: 1 id: 75684-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DASA 2702
ADNO: 516729
AUTH: BAILEY L.E.
CLSS: SRD 1 CNWDI
CONN: DASA 01 80 C 0047
CORP: SYSTEMS SCIENCE + SOFTWARE (LA JOLLA CA)
DATE: 7104
DESC: Nuclear Test Simulation Field Programs experiment design engineering
layout performance program documents L1 FAST CLOSURE SYSTEM
DESC: Nuclear Weapon Effects reentry systems RV L1 MK 3
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L5
DESC: Nuclear Test Simulation Field Programs experiment design x-ray
experiments L1
DESC: Radiation Transport L5
DESC: DEV-106 X RAYS ; EXPERIMENTAL

REPN: DASA 2702
SHOT: DIANA MIST
TSHO: UNDERGROUND (CONTAINED)
SUJO: 1-620-000 ; 3-113-000 ; 4-820-000 ; 4-820-500 ; 9-600-000
TEMP: 81132
TITL: SOURCE AND EARLY-CONTAINMENT PHYSICS FOR DIANA MIST (U), 74 P.,
(SRDCNWDI)

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DASA 2702

.endblock

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copy: 1 id: 75693-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2715 1
AUTH: TAMOR S. ; PLATZ R.O.
CLSS: U
CONN: DASA 01 70 C 0095
CORP: GENERAL ELECTRIC CO., REENTRY ; ENVIRONMENTAL SYSTEMS DIV.
(PHILADELPHIA, PA.)

DATE: 7112
DESC: Radiation Transport x-ray L1 971 L1 OPACITY
DESC: THEORY
REPN: 71 SD 2070 ; DASA 2715 1
SUJO: 9-640-000
TITL: STUDIES IN THE PHYSICS OF NON-LTE RADIATIVE TRANSFER (U), 80 P., (U)
TREE: 980

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DASA 2715 1

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copy: 1 id: 75703-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2715 2
ADNO: 523598
AUTH: TAMOR S. ; PLATZ R.O.
CLSS: CRD
CONN: DASA 70 C 0095
CORP: GENERAL ELECTRIC CO., RE-ENTRY AND ENVIRONMENTAL SYSTEMS DIV.
(PHILADELPHIA, PA.)

DATE: 7212
DESC: THEORY
DESC: Radiation Transport x-ray L1
DESC: Solid Mechanics L1
REPN: DASA 2715 2 PT. 3
SUJO: 9-200-000 ; 9-640-000
TEMP: A2704
TITL: STUDIES IN THE PHYSICS OF NON-LTE RADIATIVE TRANSFER; PT. 3,
ELECTRON DETHERMALIZATION BY COMPTON SCATTERING (U), 32 P., (CRD)

TREE: 980

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DASA 2715 2

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copy: 1 id: 75704-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DASA 2720 1

ADNO: 734203

AUTH: CERBONE R.J. ; HARRIS L. JR. ; KENDRICK H. ; WILLOUGHBY D.E.

CLSS: U

CCDE: FERDOR ; MAZE 1

CONN: DASA 01 70 C 0017

CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA)

DATE: 7105

DESC: THEORY EXPERIMENTAL TABULAR

DESC: test instruments nuclear radiation neutron L1

REPN: GULF RT 10486 ; DASA 2720 1

SUJO: 4-342-000

TITL: NUMERICAL AND EXPERIMENTAL STUDIES OF SPECTRAL UNFOLDING, VOL. 1

(U), 208 P., (U)

TREE: 652

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DASA 2720 1

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copy: 1 id: 75708-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DASA 2720 2

ADNO: 734204

AUTH: KENDRICK H. ; SPERLING S.M. ; BORGONOVI G.M. ; HOUSTON D.H.

CLSS: U

CCDE: MAZE 1

CONN: DASA 01 70 C 0017

CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA)

DATE: 7105

DESC: test instruments nuclear radiation neutron L1

DESC: TABULAR CODE THEORY

REPN: GULF RT 10486 ; DASA 2720 2

SUJO: 4-342-000

TITL: NUMERICAL AND EXPERIMENTAL STUDIES OF SPECTRAL UNFOLDING, VOL. 2

(U), 120 P., (U)

TREE: 652

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DASA 2720 2

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copy: 1 id: 75709-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DNA 1240 3
ADNO: 520167
CLSS: SRD 1
CONN: DASA 01 70 C 0035
CORP: DASIAC, DNA INFORMATION AND ANALYSIS CENTER ,(SANTA BARBARA, CA.)
DATE: 7111
DESC: SHOCK THERMAL WATER WAVES ; HANDBOOK
DESC: Nuclear Weapon Environment Water Shock motion surface waves runup L1
DESC: Nuclear Weapon Effects structures aboveground dams L1
DESC: Nuclear Weapon Effects structures shipyards harbors L1
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1

REPN: DNA 1240H 3
TSHO: UNDERWATER ; SURFACE
SUJO: 2-631-000 ; 3-123-000 ; 3-253-000 ; 3-312-210
TEMP: A0419 ; A0420
TITL: HANDBOOK OF UNDERWATER NUCLEAR EXPLOSIONS, VOL. 3 (U), 850 P., (SRD)
TNFF: 4886

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DNA 1240 3

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copy: 1 id: 75734-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DNA 1251 4-2
ADNO: 523385
AUTH: BUNNEY L.R. ; OCONNOR J.D. ; CROCKER G.R.
CLSS: SRD 1
CORP: NAVAL ORDNANCE LAB. (SILVER SPRING, MD.)
DATE: 7205
DESC: EXPERIMENTAL BIBLIOGRAPHY SURVEY
DESC: Nuclear Weapon Environment Fallout Radioproperties L1
DESC: Nuclear Weapon Effects on plants ionizing radiation L1
REPN: NOLTR 72 137 ; DNA 1251F ; DASA 1251 V.4-2
TSHO: SURFACE ; WATER-SURFACE ; UG-VENTED ; UW
SUJO: 2-223-000 ; 3-332-000
TEMP: A2588
TITL: LOCAL FALLOUT FROM NUCLEAR TEST DETONATIONS; VOL. 4, ANNOTATED
COMPENDIUM OF DATA ON RADIOCHEMICAL AND RADIATION CHARACTERISTICS OF
FALLOUT; PT. 2, RADIOCHEMICAL COMPOSITION, INDUCED ACTIVITY, GAMMA
SPECTRA (U), 559 P., (SRD)

TNFF: 4860

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DNA 1251 4-2

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copy: 1 id: 75744-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DNA 1420 1
ADNO: 519569
AUTH: THATCHER R.K.
CLSS: C 3
CONN: DASA 01 69 C 0116
CORP: BATTELLE COLUMBUS LABS. (COLUMBUS, OHIO)
DATE: 7112
DESC: Nuclear Weapon Effects electrical mechanical cables wires L1
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L5
DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L5
DESC: Nuclear Weapon Effects Summaries systems vulnerability hardening L1
DESC: TREE ; HANDBOOK
DESC: Simulation Facilities Techniques TREE L5
DESC: Nuclear Weapon Effects electronic pieceparts L1
EFFT: TREE
REPN: DNA 1420H 1
SUJO: 3-000-000 ; 3-132-000 ; 3-220-000 ; 3-231-000 ; 4-241-000 ;
4-272-000
TEMP: A0471 ; A0786 (MF)
TITL: TREE (TRANSIENT-RADIATION EFFECTS ON ELECTRONICS) HANDBOOK, VOL. 1,
(U), 552 P., (C)

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DNA 1420 1

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copy: 1 id: 75757-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: DNA 1892 3R
ABS: This Volume (chapter 3 of the handbook) surveys the methods used
most frequently to calculate the attenuation of neutrons and gamma
rays. Summaries of computer codes based on the various methods also
are provided. All of the techniques are either approximate solutions
to the Boltzmann equation or are based on kernels obtained from
solutions to the equation.
ADNO: 738020
AUTH: STEVENS P.N. ; TRUBEY D.K.
CLSS: U
CCDE: ANISN ; BIGGI ; DOT-I, II, II-W ; XSDRN ; ASOP ; TWOTRAN
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TENN.)
DATE: 7203
DESC: Radiation Transport neutron L1
DESC: Cross Sections neutron L1
DESC: HANDBOOK
DESC: Radiation Transport gamma L1
DESC: Cross Sections gamma L1

REPN: DNA 1892 3 REV. 1
SUJO: 9-620-000 ; 9-650-000 ; 9-820-000 ; 9-830-000
TITL: WEAPONS RADIATION SHIELDING HANDBOOK, CHAPTER 3-METHODS FOR
CALCULATING NEUTRON AND GAMM-RAY ATTENUATION (U), 179 P., (U)

TREE: 411 ; 412

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DNA 1892 3R

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copy: 1 id: 75768-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2028H
AUTH: THATCHER R.K. ; GREEN M.L.
CLSS: U
CONN: DASA 01 70 C 0111
CORP: BATTELLE MEMORIAL INSTITUTE (COLUMBUS, OHIO)
DATE: 7206
DESC: test instruments nuclear radiation neutron L1
DESC: HANDBOOK
DESC: Nuclear Weapon Effects electronic pieceparts L1 TREE
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

DESC: test instruments electronic vulnerability TREE L1
DESC: Simulation Facilities Techniques TREE L5
REPN: DNA 2028H
SUJO: 3-220-000 ; 4-170-000 ; 4-272-000 ; 4-342-000 ; 4-372-000
TITL: TREE PREFERRED PROCEDURES (SELECTED ELECTRONIC PARTS) (U), CA. 150

P., (U)

TREE: 300 ; 620

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DNA 2028H

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copy: 1 id: 75774-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2401 3
ADNO: 760035
AUTH: HARRIS L. JR. ; KENDRICK H.
CLSS: U
CCDE: MORSE ; SAM-CE ; FERDOR ; ENDF/B ; OGRE
CONN: DASA 01 68 C 0097
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7212
DESC: Radiation Transport gamma L1
DESC: Radiation Transport neutron L1
DESC: THEORY EXPERIMENTAL TABULAR
REPN: GULF RT A12456 ; DNA 2401 3
SUJO: 9-620-000 ; 9-650-000

TITL: TIME-DEPENDENT FAST-NEUTRON AND SECONDARY GAMMA-RAY SPECTRUM
MEASUREMENTS IN CONCRETE; VOL. 3 (U), 176 P., (U)

TREE: 960 ; 970

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DNA 2401 3

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copy: 1 id: 75793-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2488 2

ADNO: 520898L

AUTH: CLADIS J.B. ; DAVIDSON G.T. ; FRANCIS W.E. ; NEWKIRK L.L. ; WALT M.

CLSS: C 3

CCDE: ZZ

CONN: DASA 01 71 C 0175

CORP: LOCKHEED PALO ALTO RESEARCH LAB. (PALO ALTO, CA.)

DATE: 7204

DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1

DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling

distribution energy spectrum L1

DESC: SHOT WINDOW ; CODE

DESC: Nuclear Weapon Effects space systems L1 TRAPPED RADIATION ELECTRONS

REPN: DNA 2488F 2 ; LMSC B263067 V2

SUJO: 2-211-000 ; 2-217-000 ; 3-114-000

TEMP: A1134

TITL: LISTING FOR SHOT WINDOW CODES; FINAL REPORT (U), 332 P., (C)

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DNA 2488 2

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copy: 1 id: 75801-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2524H

ADNO: 738841

AUTH: CLADIS J.B. ; DAVIDSON G.T. ; NEWKIRK L.L.

CLSS: U

CONN: DA 49 146 XZ 570

CORP: LOCKHEED PALO ALTO RESEARCH LAB. (PALO ALTO, CA.)

DATE: 7112

DESC: HANDBOOK

DESC: Orbital Mechanics L1 FISSION PROPERTIES

DESC: Nuclear Weapon Effects electronic piecparts transistors diodes

silicon-controlled rectifiers L5 SEC. 8

DESC: test instruments nuclear radiation proton alpha heavy particle L5

SEC. 11

DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling

distribution energy spectrum L5

DESC: General Atmospheric Properties L1

DESC: Nuclear Weapon Effects materials ceramics optical L5 SEC. 8
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
DESC: Nuclear Weapon Effects materials coatings laminates L5 SEC. 8

THERMAL

DESC: Nuclear Weapon Effects space systems L5 SEC. 10
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
REPN: LMSC 695953 ; DNA 2524H
SHOT: TEAK ; ORANGE ; STARFISH ; ARGUS I ; ARGUS 2 ; ARGUS 3 ; RUSSIA 1 ;
RUSSIA 2 ; RUSSIA 3
TSHO: LO-ALT ; HI-ALT
SUJO: 2-212-000 ; 2-213-000 ; 2-217-000 ; 3-114-000 ; 3-221-000 ;
3-241-000 ; 3-245-000 ; 4-343-000 ; 5-100-000 ; 5-800-000 ;
9-100-000

TITL: TRAPPED RADIATION HANDBOOK (U), 732 P., (U)
TREE: 940

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DNA 2524H

.endblock

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copy: 1 id: 75812-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2649
ADNO: 729701
AUTH: JOHNSON W.E.
CLSS: U
CCDE: RADOIL ; RAM
CONN: DASA 01 70 C 0047
CORP: SYSTEMS SCIENCE AND SOFTWARE (LA JOLLA CA)
DATE: 7105
DESC: Fluid Mechanics hydrodynamics L1 WITH RADIATION DIFFUSION
DESC: THEORY CODE
REPN: 3SR 104 ; DNA 2649
SUJO: 9-410-000
TITL: RADOIL AND RAM (U), 72 P., (U)

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DNA 2649

.endblock

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copy: 1 id: 75815-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2726T 1
ADNO: 520922
AUTH: SEILER R.F.
CLSS: C 3
CONN: DASA 01 68 C 0038

CORP: BOEING CO. (SEATTLE, WASH.)
DATE: 7201
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
DESC: TABULAR SURVEY
REPN: DNA 2726T 1 ; D2 125752 3
SUJO: 4-140-000
TEMP: A1079 ; A1826 (MF)
TITL: MANAGEMENT OF HARDENED SYSTEMS DEVELOPMENT (U), 246 P., (C)
TREE: 120

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DNA 2726T 1

.endblock

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copy: 1 id: 75827-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2726T 2
ADNO: 520985
AUTH: SEILER R.F.
CLSS: SRD 1
CONN: DASA 01 68 C 0038
CORP: BOEING CO. (SEATTLE, WASH.)
DATE: 7201
DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L1
DESC: TABULAR SUMMARY
REPN: DNA 2726T 2 ; D2 125752 3
SUJO: 4-140-000
TEMP: A1078
TITL: MANAGEMENT OF HARDENED SYSTEMS DEVELOPMENT (CLASSIFIED SUPPLEMENT)
(U), 12 P.,(SRD)
TREE: 120

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DNA 2726T 2

.endblock

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copy: 1 id: 75828-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2736F
AUTH: ORPHAN V.J. ; HOOT C.G.
CLSS: U
CCDE: GAMANL ; SAMPO
CONN: DASA 01 69 C 0083
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA)
DATE: 7107
DESC: test instruments nuclear radiation gamma L1
DESC: Cross Sections neutron L1 GAMMA PRODUCTION IRON AL
DESC: EXPERIMENTAL THEORY

DESC: test instruments nuclear radiation neutron L1
REPN: GULF RT A10743 ; DNA 2736F
SUJO: 4-341-000 ; 4-342-000 ; 9-820-000
TITL: GAMMA-RAY PRODUCTION CROSS SECTIONS FOR IRON AND ALUMINUM (U), 199
P., (U)

TREE: 412

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DNA 2736F

.endblock

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copy: 1 id: 75836-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2737

ADNO: 733061

AUTH: HARTENBAUM B.

CLSS: U

CONN: DASA 01 70 C 0041

CORP: APPLIED THEORY INC. (LOS ANGELES CA)

DATE: 7109

DESC: Nuclear Weapon Environment dust moisture injection atmosphere L1

DESC: THEORY EXPERIMENTAL

DESC: Simulation Facilities Techniques nuclear radiation fallout

simulation L1 LOFTING SIMULATOR INJECTION INTO ATMOSPHERE

REPN: ATR 71 25 ; DNA 2737

SUJO: 2-222-400 ; 4-242-000

TITL: LOFTING OF PARTICULATES BY A HIGH SPEED WIND (U), 73 P., (U)

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DNA 2737

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copy: 1 id: 75837-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2751T

AUTH: SAENGER E.L. ; SILBERSTEIN E.B. ; ARON B.S. ; HORWITZ H. ; KEREAKES
J.G. ; CHEN I. ; WINGET C. ; GLESER G.C.

CLSS: U

CONN: DASA 01 69 C 0131

CORP: UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE (CINCINNATI OHIO)

DATE: 7108

DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1

DESC: SIMULATION ; EXPERIMENTAL

REPN: DNA 2751T

SUJO: 3-312-100

TITL: RADIATION EFFECTS IN MAN. MANIFESTATIONS AND THERAPEUTIC EFFORTS
(U), 100 P., (U)

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DNA 2751T

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copy: 1 id: 75850-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2753F
AUTH: NEYNABER R.H. ; RUTHERFORD J.A. ; VROOM D.A.
CLSS: U
CONN: DASA 01 69 C 0044
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO CA)
DATE: 7107
DESC: THEORETICAL
DESC: Composition Chemistry Atmosphere Reaction Rates L1
DESC: Ionosphere normal properties L1 IONIC REACTIONS EXCITED STATE

CHEMISTRY

REPN: GULF RT A10767 ; DNA 2753F
SUJO: 5-400-000 ; 5-710-000
TITL: ELECTRONIC AND IONIC REACTIONS IN ATMOSPHERIC GASES (YEARLY SUMMARY
REPORT) (U), 102 P., (U)

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DNA 2753F

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copy: 1 id: 75852-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2759F
ADNO: 518748
AUTH: KOPPEL J.U. ; LINDLEY W.B. ; ROUSE C.A. ; VULLIET W.G.
CLSS: SRD 1 CNWDI
CCDE: SAGE ; DRAD ; KODAK
CONN: DASA 01 69 C 0049
CORP: GULF ENERGY + ENVIRONMENTAL SYSTEMS CO. (SAN DIEGO, CA.)
DATE: 7108
DESC: Fluid Mechanics hydrodynamics L1
DESC: Solid Mechanics L1
DESC: THEORY TABULAR
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: Nuclear Weapon Environment X-ray Output rate L1 964 L1
DESC: equation of state heat of vaporization thermal conductivity opacity

L1 IRON AL OPACITY

REPN: GULF RT A11053 ; DNA 2759F
SOCE: SPARTAN
SUJO: 1-620-000 ; 1-640-000 ; 9-200-000 ; 9-410-000 ; 9-710-000
TEMP: A0140
TITL: RADIATION EMISSION AND DEBRIS PROPERTIES AT LOW FREQUENCIES AND LOW
TEMPERATURES (U), 340 P., (SRD/CNWDI)

TREE: 930

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DNA 2759F

.endblock

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copy: 1 id: 75858-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2767T
ADNO: 739339
AUTH: NEWELL J.M. ; FRENCH R.L. ; KIMMELL R. ; MOONEY L.G.
CLSS: U
CCDE: ZZ (SHIP SHIELDING)
CORP: RADIATION RESEARCH ASSOCIATES, INC. (FORT WORTH, TEX.)
DATE: 7203
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: CODE
DESC: Cross Sections neutron L1
DESC: Cross Sections gamma L1
REPN: DNA 2767T ; RRA T706
SUJO: 3-312-100 ; 9-820-000 ; 9-830-000
TITL: SYSTEM OF SHIP-SHIELDING CODES (U), 76 P., (U)
TREE: 411 ; 412

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DNA 2767T

.endblock

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copy: 1 id: 75865-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2779F
AUTH: CERBONE R.J.
CLSS: U
CCDE: 1DF ; ENDF/B ; MAT 1101 ; HECTO/R5 ; CAP ; GGC-4 ; ANISN
CONN: DASA 01 71 C 0106
CORP: GULF ENERGY + ENVIRONMENTAL SYSTEMS CO. (SAN DIEGO, CA.)
DATE: 7110
DESC: THEORY EXPERIMENTAL TABULAR
DESC: Radiation Transport neutron L1 IRON
REPN: GULF RT A10859 ; DNA 2779F
SUJO: 9-650-000
TITL: REANALYSIS OF THE NEUTRON SPECTRUM MEASUREMENTS IN AN IRON BULK
ASSEMBLY (U), 45 P., (U)
TREE: 970

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DNA 2779F

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copy: 1 id: 75877-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2780F

AUTH: GUBER W. ; STEINBERG H.A.
CLSS: U
CCDE: SAM-A
CONN: DASA 01 71 C 0027
CORP: MATHEMATICAL APPLICATIONS GROUP, INC. (WHITE PLAINS, NY)
DATE: 7110
DESC: Radiation Transport gamma L1
DESC: THEORY TABULAR SUMMARY
REPN: MR 7019 ; DNA 2780F
SUJO: 9-620-000
TITL: DESCRIPTION OF THE SAM-A PROGRAM FOR THE MONTE CARLO ADJOINT
CALCULATION OF SECONDARY GAMMA FLUX AS A FUNCTION OF TIME AND ENERGY
(U), 31 P., (U)

TREE: 960

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DNA 2780F

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copy: 1 id: 75878-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2798F
ADNO: 903766
AUTH: TOCHILIN E.
CLSS: U
CONN: DASA 01 70 C 0027
CORP: ENVIRONMENTAL SCIENCE ASSOCIATES (BURLINGAME, CA.)
DATE: 7112
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation dosimeters radiacs L1 TL TSEE
REPN: ESA TR 71 04 ; DNA 2798F
SUJO: 4-346-000
TITL: INTERMEDIATE AND HIGH-ATOMIC-NUMBER DOSIMETERS (U), 65 P., (U)
TREE: 655

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DNA 2798F

.endblock

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copy: 1 id: 75898-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2799-263
AUTH: BLOCK J.L. ; COX A.L. ; COHEN L.
CLSS: C 3
CORP: NAVAL RESEARCH LAB. (WASHINGTON, D.C.)
DATE: 7203
DESC: THEORY EXPERIMENTAL
DESC: test instruments x-ray effects L1
SUJO: 4-330-000
SYMJ: IN PROCEEDINGS, DNA SIMULATOR DESIGN SYMPOSIUM, 26-28 JANUARY 1971

TITL: RECENT RADIATION DIAGNOSTICS DEVELOPMENT AT NRL (U), 10 P., (C)
TREE: 653

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DNA 2799-263

.endblock

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copy: 1 id: 75916-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2799-275

AUTH: SHATAS R.A. ; STETTLER J.D. ; MEYER H.C. ; ROBERTS T.G.

CLSS: C 3

CORP: ARMY MISSILE COMMAND, PHYSICAL SCIENCES DIRECTORATE (REDSTONE
ARSENAL, ALA.)

DATE: 7203

DESC: THEORY

DESC: Directed Energy Weapons Lasers Applications High-intensity radiation
field generation L1

DESC: Simulation Facilities Techniques x-ray effects L1 LASER

SUJO: 3-616-750 ; 4-231-000

SYMJ: IN PROCEEDINGS, DNA SIMULATOR DESIGN SYMPOSIUM, 26-28 JANUARY 1971

TITL: SOFT X-RAY PRODUCTION IN A LASER ASSISTED PLASMA FOCUS DEVICE (U), 9
P., (C)

TREE: 642

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DNA 2799-275

.endblock

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copy: 1 id: 75917-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2803I

AUTH: HARRIS R.J. ; LONERGAN J.A. ; HUSZAR L.

CLSS: U

CCDE: ATR

CONN: DNA 01 70 C 0090

CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA.)

DATE: 7205

DESC: Radiation Transport gamma L1

DESC: ATR CODE DEVELOPMENT NO ACTUAL LISTING ; CODE

DESC: Radiation Transport x-ray L1

DESC: Radiation Transport neutron L1

REPN: SAI 71 557 LJ ; DNA 2803I

SUJO: 9-620-000 ; 9-640-000 ; 9-650-000

TITL: MODELS OF RADIATION TRANSPORT IN AIR THE ATR CODE (U), 123 P., (U)

TREE: 950

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DNA 2803I

.endblock

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copy: 1 id: 75924-1001 library: DOCUMENT price: \$00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2806F

ADNO: 520792

AUTH: DISMUKES C.R.

CLSS: SRD 1 CNWDI

CCDE: PHOTRAN ; LUDWIG I ; RADOIL ; RAM ; VERA ; HELP ; FSCATT ; MAREN ;
VUFAC ; SNAPSHOT ; PIPES ; ZOOS ; NEWNET ; TOIL ; DORF

CONN: DASA 01 70 C 0047

CORP: SYSTEMS, SCIENCE AND SOFTWARE (LA JOLLA, CA.)

DATE: 7110

DESC: SURVEY THEORY

DESC: Radiation Transport x-ray L1

DESC: Nuclear Weapon Environment X-ray Output L1

DESC: Fluid Mechanics hydrodynamics L9 2-D COMPARISONS

DESC: Nuclear Weapon Effects materials metals alloys L1 X RAY

DESC: Nuclear Test Simulation Field Programs experiment design engineering

layout performance program documents L1 CONTAINMENT SYSTEM LOS

REPN: 3SCR 801 ; DNA 2806F

SHOT: DIAGONAL LINE ; YERBA ; MISTY NORTH ; DIAMOND SCULLS ; DIDO QUEEN ;
DIESEL TRAIN; HUDSON MOON

TSHO: UG (CONTAINED)

SOCE: 

SUJO: 1-600-000 ; 3-243-000 ; 4-820-000 ; 9-410-000 ; 9-640-000

TEMP: A1002

TITL: DESIGN OF UNDERGROUND TESTS, ANNUAL SUMMARY REPORT (U), 84 P., (SRD
CNWDI)

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DNA 2806F

.endblock

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copy: 1 id: 75951-1001 library: DOCUMENT price: \$00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2809F

AUTH: COHEN M.O.

CLSS: U

CCDE: SAM-CE

CONN: DASA 01 70 C 0083

CORP: MATHEMATICAL APPLICATIONS GROUP., INC (WHITE PLAINS, NY)

DATE: 7111

DESC: Cross Sections gamma L1

DESC: EXPERIMENTAL TABULAR

DESC: Radiation Transport gamma L1 CONCRETE NEUTRON GENERATED GAMMAS

DESC: Radiation Transport neutron L1

DESC: Cross Sections neutron L1

REPN: MR 7022 ; DNA 2809F

SUJO: 9-620-000 ; 9-650-000 ; 9-820-000 ; 9-830-000

TITL: ANALYSIS OF NEUTRON AND SECONDARY GAMMA RAY TRANSPORT IN CONCRETE

USING THE SAM-CE MONTE CARLO CODE (U), 112 P., (U)

TREE: 412 ; 960 ; 970 ; 411

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DNA 2809F

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copy: 1 id: 75954-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2818F 1

AUTH: AZAREWICZ J.L. ; KING W.S. ; RANDLE W.S.

CLSS: U

CONN: DASA 01 70 C 0137

CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)

DATE: 7111

DESC: TABULAR

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TREE

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
TREE

REPN: GULF RT A10912 ; DNA 2818F 1

SUJO: 3-221-000 ; 3-222-000

TITL: RADIATION RESPONSE PIECE-PARTS DATA BANK, VOL. 1 (U), 96 P., (U)

TREE: 310 ; 320

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DNA 2818F 1

.endblock

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copy: 1 id: 75962-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2818F 2

AUTH: KING W.S. ; CYR R.W. ; RANDLE W.G.

CLSS: U

CCDE: ZZ (TREE DATA PROCESSING)

CONN: DASA 01 70 C 0137

CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)

DATE: 7111

DESC: test instruments electronic vulnerability TREE L1

DESC: CODE

REPN: GULF RT A10912 ; DNA 2818F 2

SUJO: 4-372-000

TITL: RADIATION RESPONSE PIECE-PARTS DATA BANK, VOL. 2 (U), 134 P., (U)

TREE: 310 ; 320

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DNA 2818F 2

.endblock

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copy: 1 id: 75963-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DNA 2821Z 1
ADNO: 522555
AUTH: GUNTON R.C. ; BRADBURY J.N. ; MCCORMAC B.M.
CLSS: U
CONN: DASA 01 70 C 0162
CORP: LOCKHEED PALO ALTO RESEARCH LAB. (PALO ALTO, CA.)
DATE: 7208
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1 IR
REPN: LMSC B303707 ; DNA 2821Z 1
TSHO: HI-ALT
SUJO: 4-820-600
TEMP: A2204 ; A2548 (MF)
TITL: READINESS TEST PLANNING, INFRARED RADIATION REQUIREMENTS; VOL. 1,
SUMMARY OF MEASUREMENTS (U), 15 P., (S)

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DNA 2821Z 1

.endblock

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copy: 1 id: 75966-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DNA 2821Z 2
ADNO: 522 556
AUTH: BRADBURY J.N. ; GUNTON R.C. ; MCCORMAC B.M. ; BERG R.A.
CLSS: SRD 1
CONN: DASA 01 70 C 0162
CORP: LOCKHEED PALO ALTO RESEARCH LAB. (PALO ALTO, CA.)
DATE: 7208
DESC: Nuclear Weapon Environment Infrared Output source strength total
intensity L5 VARIOUS CALCULATIONS AND SHOTS COMPARED
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1 IR
REPN: LMSC B290193 ; DNA 2821Z 2
SHOT: BLUEGILL ; TEAK ; KINGFISH
TSHO: HI-ALT
SUJO: 1-310-000 ; 4-820-600
TEMP: A2204 VOL. 2 COP. 41
TITL: READINESS TEST PLANNING; VOL. 2, INFRARED RADIATION REQUIREMENTS
(U), 76 P., (SRD)

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DNA 2821Z 2

.endblock

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copy: 1 id: 75967-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DNA 2821Z 3
ADNO: 522 557
AUTH: GUNTON R.C. BRADBURY J.N. ; MCCORMAC B.M.
CLSS: SRD 1
CONN: DASA 01 70 C 0162
CORP: LOCKHEED PALO ALTO RESEARCH LAB. (PALO ALTO, CA.)
DATE: 7208
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1 IR PROPOSED TESTS
REPN: LMSC B303807 ; DNA 2821Z 3
TSHO: HI-ALT
SUJO: 4-820-600
TEMP: A2204 VOL. 3 COP. 41
TITL: READINESS TEST PLANNING, INFRARED RADIATION REQUIREMENTS, VOL. 3,
EXPERIMENTALPLAN (U), 45 P., (SRD)

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DNA 2821Z 3

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copy: 1 id: 75968-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2824F
ADNO: 743549
AUTH: CLADIS J.B. ; DAVIDSON G.T. ; FRANCIS W.E. ; FUTTERMAN W.I. ;
NEWKIRK L.L. ; WALT M.
CLSS: U
CCDE: ZZ
CONN: DASA 01 71 C 0047
CORP: LOCKHEED PALO ALTO RESEARCH LAB. (PALO ALTO, CA.)
DATE: 7204
DESC: Nuclear Weapon Environment Induced Geomagnetic Hydromagnetic
Perturbations L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
DESC: THEORY
REPN: LMSC D246353 ; DNA 2824F
SUJO: 2-212-000 ; 2-217-000 ; 2-530-000
TITL: TRAPPED RADIATION STUDIES INVOLVING PLASMA INSTABILITIES AND RADIAL
DIFFUSION,ANNUAL REPORT (U), 68 P., (U)

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DNA 2824F

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copy: 1 id: 75971-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2828F
AUTH: MCCORMAC B.M. ; EVANS J.E. ; DURNEY A.C. ; CAPPELL C.R.

CLSS: U
CONN: DASA 01 71 C 0102
CORP: LOCKHEED MISSILES AND SPACE CO. (PALO ALTO, CA.)
DATE: 7112
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
DESC: MAGNETOSPHERE ; SUMMARY
DESC: radio microwave propagation abnormal conditions auroral disturbances
sudden ionospheric disturbances SID polar cap absorptions PCA solar
eclipse L1
REPN: DNA 2828F
SUJO: 5-738-000 ; 5-800-000
TITL: EARTHS PARTICLES AND FIELDS, 1971 (U), 65 P., (U)

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DNA 2828F

.endblock

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copy: 1 id: 75975-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2847 3-135
AUTH: CARPENTER G.B. ; NELSON R.A. ; OWEN J. ; PIERCE E.T.
CLSS: SRD
CCDE: GPROD
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA.)
DATE: 7112
DESC: VLF ; THEORY
DESC: Nuclear Weapon Phenomenology Atmospheric Ionization Chemistry
general descriptions L1
SUJO: 2-311-000
SYMJ: PROCEEDINGS OF THE DNA HIGH ALTITUDE NUCLEAR EFFECTS SYMPOSIUM; VOL.
3, ATMOSPHERIC CHEMISTRY, IONIZATION AND COMMUNICATIONS, PT. 2
TITL: COMPARISON OF OBSERVED AND PREDICTED EFFECTS OF DELAYED GAMMA
RADIATION FROM LOW-ALTITUDE NUCLEAR EVENTS (U), 13 P., (SRD)

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DNA 2847 3-135

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copy: 1 id: 73072-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2847 4-039
AUTH: ROUSE C.A. ; LINDLEY W.B. ; SAND S. ; VULLIET W.G.
CLSS: SRD CNWDI
CCDE: KODAK ; OUTPUT ; SAGE ; SALT
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7112
DESC: Nuclear Weapon Environment X-ray Output rate L5 EARLY TIME CODE
TECHNIQUES MAINLY
DESC: equation of state heat of vaporization thermal conductivity opacity

L9 OPACITY IRON TWO MODELS COMPARED

SOCE: SPARTAN
SUJO: 1-640-000 ; 9-710-000
SYMJ: PROCEEDINGS OF THE DNA HIGH ALTITUDE NUCLEAR EFFECTS SYMPOSIUM; VOL.
4, EARLY TIME PHENOMENA AND CODE PREDICTIONS
TITL: LATE-TIME EMISSION FROM A SIMULATED SPARTAN DEVICE (U), 12 P., (SRD
CNWDI)
TREE: 930

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DNA 2847 4-039

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copy: 1 id: 73078-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2847 6-029
AUTH: KOPPEL J.U.
CLSS: S
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA)
DATE: 7100
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1 EARLY COUPLING
TSHO: HI-ALT
SUJO: 2-211-000
SYMJ: PROCEEDINGS OF THE DNA HIGH ALTITUDE NUCLEAR EFFECTS SYMPOSIUM; VOL.
6, PT. 2
TITL: TAYLOR INSTABILITIES (U), 7 P., (S)

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DNA 2847 6-029

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copy: 1 id: 73105-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2847 6-037
AUTH: CLADIS J.B. ; DAVIDSON G.T. ; FRANCIS W.E.
CLSS: S
CORP: LOCKHEED PALO ALTO RESEARCH LAB. (PALO ALTO, CA)
DATE: 7100
DESC: Nuclear Weapon Phenomenology High-Altitude injection trapping L1
TRAPPED RADIATION
TSHO: HI-ALT
SUJO: 2-217-000
SYMJ: PROCEEDINGS OF THE DNA HIGH ALTITUDE NUCLEAR EFFECTS SYMPOSIUM; VOL.
6, PT. 2
TITL: COMPUTATION OF TRAPPED PARTICLE FLUXES RESULTING FROM HIGH ALTITUDE
NUCLEAR DETONATIONS (U), 34 P., (S)

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DNA 2847 6-037

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copy: 1 id: 73106-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2847 8-041
AUTH: CARPENTER J.W. ; SMITH H.J.P.
CLSS: SRD
CCDE: OPTIR
CORP: VISIDYNE, INC. (WOBURN, MA.)
DATE: 7112
DESC: Nuclear Weapon Environment Infrared Output rate L1
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence L1
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1
DESC: THEORY EXPERIMENTAL
SHOT: STARFISH
TSHO: HI-ALT
SUJO: 1-340-000 ; 2-160-000 ; 2-214-000
SYMJ: PROCEEDINGS OF THE DNA HIGH ALTITUDE NUCLEAR EFFECTS SYMPOSIUM; VOL.
8, INFRARED
TITL: NO RADIATION FROM STAR FISH (U), 14 P., (SRD)

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DNA 2847 8-041

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copy: 1 id: 73135-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2847 8-069
AUTH: KOFSKY I.L.
CLSS: SRD
CORP: PHOTOMETRICS, INC. (LEXINGTON, MA.)
DATE: 7112
DESC: Nuclear Weapon Phenomenology Fireball Chemistry L1 METAL OXIDE
RADIATION
SHOT: BLUEGILL
SUJO: 2-160-000
SYMJ: PROCEEDINGS OF THE DNA HIGH ALTITUDE NUCLEAR EFFECTS SYMPOSIUM; VOL.
8, INFRARED
TITL: CLASSIFIED TITLE, 17 P., (SRD)

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DNA 2847 8-069

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copy: 1 id: 73137-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2847 8-113

AUTH: MCCORMAC B.M.
CLSS: SRD
CORP: LOCKHEED PALO ALTO RESEARCH LAB. (PALO ALTO, CA.)
DATE: 7112
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1 SIMULATION (NATURAL AURORAS)
SUJO: 4-820-600
SYMJ: PROCEEDINGS OF THE DNA HIGH ALTITUDE NUCLEAR EFFECTS SYMPOSIUM; VOL.
8, INFRARED
TITL: AURORAL RADAR AND IR SIMULATION (U), 23 P., (SRD)

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DNA 2847 8-113

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copy: 1 id: 73140-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2856F
ADNO: 521639L
AUTH: MORRIS P.J.
CLSS: C
CCDE: CINDA-3G
CONN: DASA 01 71 C 0019
CORP: URS RESEARCH CO. (SAN MATEO, CA.)
DATE: 7112
DESC: THERMAL/BLAST SIMULATION ALUMINUM STEEL TITANIUM COMBINED EFFECTS ;
THEORY SURVEY
DESC: Nuclear Weapon Effects structures aboveground models cylinders cones
rings L1
DESC: Nuclear Weapon Effects flight systems airplanes L1
DESC: Nuclear Weapon Effects structures aboveground models plates slabs L1
REPN: URS 7029 4 ; DNA 2856F
SUJO: 3-111-000 ; 3-259-300 ; 3-259-400
TEMP: A1756
TITL: REVIEW OF RESEARCH ON THERMAL RADIATION DEGRADATION OF STRUCTURAL
RESISTANCE TO AIR BLAST (U), 88 P., (S)

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DNA 2856F

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copy: 1 id: 76006-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2860T
ADNO: 743171
AUTH: STRAKER E.A. ; SCOTT W.H. JR. ; BYRN N.R.
CLSS: U
CCDE: MORSE ; PICTURE
CONN: DASA 01 71 C 0044
CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA.)

DATE: 7205
DESC: Radiation Transport gamma L1
DESC: Radiation Transport neutron L1
DESC: CODE
REPN: SAI 72 511 LJ ; DNA 2860T
SUJO: 9-620-000 ; 9-650-000
TITL: MORSE CODE WITH COMBINATORIAL GEOMETRY (U), 186 P., (U)
TREE: 960 ; 970

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DNA 2860T

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copy: 1 id: 76010-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2861F
ADNO: 520450
AUTH: MCCORMAC B. ; EVANS J.E. ; SEARS R.D. ; BERG R.
CLSS: U
CONN: DASA 01 71 C 0085
CORP: LOCKHEED PALO ALTO RESEARCH LAB. (PALO ALTO, CA.)
DATE: 7106
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
DESC: Solar Phenomena L1 SOLAR WIND
DESC: ionospheric properties during storms disturbances L1
DESC: TUTORIAL
REPN: DNA 2861F ; LMSC D179555
SUJO: 5-720-000 ; 5-800-000 ; 5-900-000
TITL: HIGH LATITUDE PHENOMENOLOGY (U), 62 P., (U)

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DNA 2861F

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copy: 1 id: 76011-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2866H

ABS: This report is a chronological tabulation of most of the x-ray effects tests conducted by DoD and AEC, as well as a general description of the x-ray spectra and the fluence levels available on each event for experiments. Six illustrative x-ray tests are discussed in some detail with their x-ray spectrums being presented as plotted figures and tabulations. There is some discussion of their radiation times and the outputs from underground x-ray tests simulating tactical ABM environments. This handbook is not intended to provide all the information needed by someone who is unfamiliar with x-ray effects testing nor is it for someone whose full time occupation is analysis of x-ray spectra from nuclear weapons. The information is known to be useful to the large majority of the

community associated with the military effects of x-rays from nuclear weapons.

ADNO: 522244
AUTH: SHELTON F.H. ; KEITH J.R.
CLSS: SRD 1 CNWDI
CORP: KAMAN SCIENCES CORP. (COLORADO SPRINGS, CO.)
DATE: 7209
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: TABULAR HANDBOOK
REPN: KN 770 71 45 ; DNA 2866H
SHOT: MARSHMALLOW ; MIDI MIST ; DIANA MIST ; DIESEL TRAIN ; MINT LEAF ;
DIDO QUEEN
TSHO: UG-CONTAINED
SOCE: [REDACTED]
SUJO: 1-620-000
TEMP: A2103
TTTL: HANDBOOK ON NUCLEAR WEAPONS AS X-RAY SOURCES (U), 194 P., (SRD
CNWDI)
TREE: 930

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DNA 2866H

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copy: 1 id: 76016-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2888F
ADNO: 521547
AUTH: CRAMER J.D. ; ARON W.A. ; MILLS J.S. ; MORRISON R.G. ; REYNOLDS G.M.
CLSS: SRD 1 CNWDI
CONN: DASA 01 71 C 0078
CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA.)
DATE: 7207
DESC: test instruments nuclear radiation gamma L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L5
DESC: Nuclear Test Simulation Field Programs experiment design neutron
experiments L1
DESC: SURVEY
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L9 P. 55
DESC: Nuclear Test Simulation Field Programs experiment design gamma
experiments L1
DESC: Nuclear Weapon Environment Prompt Neutron time of flight L5
DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L5
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L5
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L5 P.
14
DESC: test instruments nuclear radiation neutron L1
REPN: DNA 2888F ; SAI 71 256 LJ
SHOT: STARFISH ; KINGFISH ; CHECKMATE ; PARROT ; PETREL ; PERSIMMON ; DOOR
MIST ; MING VASE ; SMALL BOY ; MARVEL ; HUDSON SEAL ; DIAMOND MINE ;
KYACK ; CYATHUS ; TERRINE ; DIESEL TRAIN

TSHO: UG-CONTAINED : LOW-ALT : HI-ALT

SOCE:

SUJO: 1-110-000 ; 1-120-000 ; 1-150-000 ; 1-620-000 ; 1-720-000 ;
1-740-000 ; 4-341-000 ; 4-342-000 ; 4-820-300 ; 4-820-400

TEMP: A1724

TITL: INSTRUMENTS FOR MEASURING NEUTRON AND GAMMA RADIATION FROM NUCLEAR
WEAPON TESTS (U), 296 P., (SRD CNWDI)

TREE: 651 ; 652

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DNA 2888F

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copy: 1 id: 76061-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2890F

ADNO: 746461

AUTH: KALOS M.H. ; STEINBERG H. ; TROUBETZKOY E.

CLSS: U

CONN: DASA 01 71 C 0028

CORP: MATHEMATICAL APPLICATIONS GROUP, INC. (ELMSFORD, NY)

DATE: 7206

DESC: Radiation Transport neutron L1

DESC: THEORY CODE

DESC: Radiation Transport gamma L1

REPN: MR 7017 ; DNA 2890F

SUJO: 9-620-000 ; 9-650-000

TITL: AUTOMATIC COMPUTATION OF IMPORTANCE SAMPLING FUNCTIONS FOR MONTE
CARLO TRANSPORT CODES-PHASE III (U), 143 P., (U)

TREE: 960 ; 970

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DNA 2890F

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copy: 1 id: 76064-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2894 1-577

AUTH: KRUGER H.

CLSS: SRD

CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA.)

DATE: 7211

DESC: test instruments x-ray effects L1 QUARTZ GAGE

DESC: THEORY SURVEY

EFFT: GAMMA

SHOT: MING VASE ; CAMPHOR ; HUPMOBILE

TSHO: UG-CONTAINED

SUJO: 4-330-000

SYMJ: PROCEEDINGS OF THE UNDERGROUND NUCLEAR TEST MEASUREMENTS SYMPOSIUM I

TITL: SOME QUESTIONS ABOUT RADIATION EFFECTS ON QUARTZ CRYSTALS (U), 14 P., (SRD)

TREE: 363

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DNA 2894 1-577

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copy: 1 id: 73187-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2896F

ADNO: 745372

AUTH: ARCHER D.H.

CLSS: U

CONN: DASA 01 71 C 0054

CORP: MISSION RESEARCH CORP. (SANTA BARBARA, CA.)

DATE: 7106

DESC: THEORY

DESC: Solid Mechanics L5

DESC: Composition Chemistry Atmosphere Reaction Rates L1

DESC: Emission Spectra of the Atmosphere L1 ELECTRON INDUCED RADIATION

REPN: MRC N 26 ; DNA 2896F

SUJO: 5-400-000 ; 5-600-000 ; 9-200-000

TITL: ELECTRON COOLING AND EXCITATION OF VISIBLE RADIATION INDUCED BY COLLISIONS WITH N, N SUPER + AND O SUPER + (U), 14 P., (U)

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DNA 2896F

.endblock

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copy: 1 id: 76070-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2918F

ADNO: 751989

AUTH: FRANK A.L. ; BENTON E.V.

CLSS: U

CCDE: FLUENZ ; HENDU

CONN: DASA 01 71 C 0065

CORP: UNIVERSITY OF SAN FRANCISCO, DEPT. OF PHYSICS (SAN FRANCISCO, CA.)

DATE: 7206

DESC: Nuclear Weapon Environment Ground Shock cavities subsidence collapse

L1 SALT MEDIUM

DESC: Nuclear Weapon Environment Ground Shock motion strain fracture displacement particle velocity L1

DESC: Nuclear Weapon Environment Ground Shock velocity arrival time spectrum duration L1 SPECTRUM

DESC: test instruments nuclear radiation neutron L1 5 TO 20 MEV

DESC: Nuclear Weapon Environment Ground Shock impact pressure stress L1

DESC: THEORY EXPERIMENTAL CODE

DESC: nuclear test detection seismic detection L1

REPN: DNA 2918F
SHOT: STERLING ; DIODE TUBE ; HUMID WATER ; COWBOY ; SALMON ; DINAR COIN
TSHO: UG-CONTAINED
SUJO: 2-621-000 ; 2-622-000 ; 2-623-000 ; 2-627-000 ; 4-342-000 ;
4-910-100

TITL: DEVELOPMENT OF A HIGH ENERGY NEUTRON DETECTOR (U), 42 P., (U)

TREE: 652

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DNA 2918F

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copy: 1 id: 76091-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2922

AUTH: LINDLEY W.B. ; ROUSE C.A.

CLSS: SRD CNWDI

CCDE: DRAD

CONN: DASA 01 69 C 0049

CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)

DATE: 7201

DESC: Nuclear Weapon Environment X-ray Output rate L1

DESC: Radiation Transport x-ray L5

DESC: Nuclear Weapon Environment X-ray Output angular distribution L1

DESC: THEORY TABULAR

EFFT: X-RAY

REPN: DNA 2922 ; GULF RT 11053 ADD

SOCE: SPARTAN

SUJO: 1-630-000 ; 1-640-000 ; 9-640-000

TEMP: A1987

TITL: RADIATION EMISSION AND DEBRIS PROPERTIES AT LOW FREQUENCIES AND LOW
TEMPERATURES (U), 27 P., (SRD)

TREE: 980

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DNA 2922

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copy: 1 id: 76095-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2926F

ADNO: 523357

AUTH: KNOWLES C.P. ; SCHAIBLY J.H. ; TRIPLETT J.R. ; WEI M.H. ; WILSON

A.R. ; ZERKLEJ.E.

CLSS: SRD CNWDI

CCDE: HELP ; VERA ; TRANSN ; HECTIC ; STRANS ; PACK ; GLUPOT

CONN: DASA 01 70 C 0-80, P0001

CORP: SYSTEMS, SCIENCE AND SOFTWARE (LA JOLLA, CA.)

DATE: 7210

DESC: Nuclear Weapon Phenomenology Fireball Energy Partition Energy

Coupling L1

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: Nuclear Weapon Environment X-ray Output angular distribution L1
DESC: Radiation Transport x-ray L1 IRON COPPER PLASTIC TUFF
DESC: equation of state heat of vaporization thermal conductivity opacity

L1

DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1 EARLY TIME
DESC: Fluid Mechanics hydrodynamics L1
DESC: THEORY TABULAR CODE
REPN: SSS CR 72 1007 ; DNA 2926F
SUJO: 1-620-000 ; 1-630-000 ; 2-150-000 ; 2-211-000 ; 9-410-000 ;
9-640-000 ; 9-710-000
TEMP: A2563
TITL: TWO-DIMENSIONAL VERA PROGRAM (U), 444 P., (SRD CNWDI)
TREE: 930 ; 980

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DNA 2926F

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copy: 1 id: 76099-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2927F1
ADNO: 522986
AUTH: BEYSTER J.R. ; DUPREE S.A. ; HUFFMAN D.L. ; SARGIS D.A.
CLSS: SRD CNWDI
CCDE: SATDA ; ENDF/B ; GAMLEG
CONN: DASA 01 70 C 0099
CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA.)
DATE: 7105
DESC: Cross Sections gamma L1
DESC: Cross Sections neutron L5
DESC: THEORY
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L3
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L3
REPN: SAI 71 224 LJ I ; DNA 2927F1
SUJO: 1-110-000 ; 1-710-000 ; 9-820-000 ; 9-830-000
TEMP: A2447 V.1 C.50
TITL: NEUTRON AND GAMMA RADIATION EMITTED IN NUCLEAR EXPLOSIONS -METHODS
AND APPLICATIONS; VOL. 1, SUMMARY OF METHODS AND BASIC DATA (U), 106
P., (SRD CNWDI)
TREE: 910 ; 920

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DNA 2927F1

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copy: 1 id: 76100-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2927F2
ADNO: 522987
AUTH: BEYSTER J.R. ; DUPREE S.A. ; HUFFMAN D.L. ; SARGIS D.A.
CLSS: SRD CNWDI
CONN: DASA 01 70 C 0099
CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA.)
DATE: 7105
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
REPN: SAI 71 224 LJ II ; DNA 2927F2
SUJO: 1-110-000 ; 1-120-000 ; 1-140-000
TEMP: A2447 V.2 C.50
TITL: NEUTRON AND GAMMA RADIATION EMITTED IN NUCLEAR EXPLOSIONS -METHODS
AND APPLICATIONS; VOL. 2, NEUTRON AND GAMMA OUTPUT FROM THE SPRINT
WARHEAD (U), 59 P., (SRD CNWDI)
TREE: 910 ; 920

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DNA 2927F2

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copy: 1 id: 76101-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2927F3
ADNO: 522988
AUTH: BEYSTER J.R. ; DUPREE S.A. ; HUFFMAN D.L. ; SARGIS D.A.
CLSS: SRD CNWDI
CCDE: TDA/SATDA/ANISN
CONN: DASA 01 70 C 0099
CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA.)
DATE: 7105
DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L1
DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: THEORY
DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width L1
REPN: SAI 71 224 LJ II ; DNA 2927F3
SOCE: SPARTAN / FOGHORN
SUJO: 1-110-000 ; 1-120-000 ; 1-140-000 ; 1-710-000 ; 1-720-000 ;
1-740-000
TEMP: A2447 V.3 C.50
TITL: NEUTRON AND GAMMA RADIATION EMITTED IN NUCLEAR EXPLOSIONS -METHODS
AND APPLICATIONS; VOL. 3, NEUTRON AND GAMMA OUTPUT FROM THE SPARTAN
WARHEAD (U), 77 P., (SRD CNWDI)

TREE: 910 ; 920

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DNA 2927F3

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copy: 1 id: 76102-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2927F4

ADNO: 522989

AUTH: BEYSTER J.R. ; DUPREE S.A. ; HUFFMAN D.L. ; SARGIS D.A.

CLSS: SRD CNWDI

CCDE: MEG/ANISN

CONN: DASA 01 70 C 0099

CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA.)

DATE: 7105

DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L1

DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1

DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L1

DESC: THEORY

DESC: Nuclear Weapon Environment Prompt Neutron dose rate pulse width L1

DESC: Nuclear Weapon Environment Initial Gamma dose rate pulse width L1

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1

REPN: SAI 71 224 LJ IV ; DNA 2927F4

SOCE: MACE/TAMBOURINE

SUJO: 1-110-000 ; 1-120-000 ; 1-140-000 ; 1-710-000 ; 1-720-000 ;
1-740-000

TEMP: A2447 V.4 C.50

TITL: NEUTRON AND GAMMA RADIATION EMITTED IN NUCLEAR EXPLOSIONS-METHODS
AND APPLICATIONS; VOL. 4, GAMMA RAY OUTPUT FROM THE MACE AND
TAMBOURINE DEVICES (U), 40 P., (SRD CNWDI)

TREE: 910

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DNA 2927F4

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copy: 1 id: 76103-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2928F

ADNO: 747339

AUTH: REILLY D.A. ; PATRICK R.M.

CLSS: U

CONN: DASA 01 71 C 0112

CORP: AVCO EVERETT RESEARCH LAB. (EVERETT, MA.)

DATE: 7205

DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L5 COUPLING OF DEBRIS

DESC: Plasma Physics MHD fusion L1
REPN: DNA 2928F
TSHO: HI-ALT
SUJO: 2-211-000 ; 9-500-000
TITL: UV RADIATION MEASUREMENTS (U), 54 P., (U)

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DNA 2928F

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copy: 1 id: 76104-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2933F
ADNO: 522446
AUTH: SCHAIBLY J.H. ; SHERIDAN R.S.
CLSS: SRD 1 CNWDI
CCDE: VERA ; WILDEBEEST
CONN: DASA 01 71 C 0037
CORP: SYSTEMS, SCIENCE AND SOFTWARE (LA JOLLA, CA.)
DATE: 7209
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: equation of state heat of vaporization thermal conductivity opacity

L1 PLATINUM OPACITY

DESC: THEORY TABULAR
DESC: Radiation Transport x-ray L1
DESC: Nuclear Weapon Environment X-ray Output angular distribution L1
SOURCE STRENGTH OVER SURFACE

REPN: SSS CR 72 1146 ; DNA 2933F
SOCE: SPARTAN
SUJO: 1-620-000 ; 1-630-000 ; 9-640-000 ; 9-710-000
TEMP: A2106
TITL: MODIFICATIONS TO THE VERA 1-D RADIATION HYDRODYNAMIC CODES (U), 120
P., (SRD CNWDI)

TREE: 930 ; 980

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DNA 2933F

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copy: 1 id: 76109-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2935F
ADNO: 753209
AUTH: WOLFGANG A. ; MAIER J.G.
CLSS: U
CORP: WALTER REED GENERAL HOSPITAL (WASH., D.C.)
DATE: 7212
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: SIMULATION (COBALT) ; EXPERIMENTAL
EFFT: X-RAY

REPN: DNA 2935F
SUJO: 3-312-100
TITL: EFFECTS OF CENTRAL NERVOUS SYSTEM IRRADIATION ON HUMAN PERFORMANCE,
BLOOD PRESSURE AND EMOTIONAL STATE (U), 50 P., (U)

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DNA 2935F

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copy: 1 id: 76111-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2948F
ADNO: 522518
AUTH: SAPPENFIELD D.S.
CLSS: SRD 1
CCDE: MODEL 3 ; HENRE ; DAC ; RADFLO ; ZZ (MODEL 3 MODIFICATIONS)
CONN: DASA 01 71 C 0054 P00001
CORP: MISSION RESEARCH CORP. (SANTA BARBARA, CA.)
DATE: 7210
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Radiation Transport electron L1 CROSS SECTIONS
DESC: Radiation Transport thermal L1
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: THEORY
DESC: Nuclear Weapon Phenomenology High-Altitude debris coupling
distribution energy spectrum L1
DESC: Nuclear Weapon Phenomenology High-Altitude induced airglow
fluorescence L1
DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L5
REPN: MRC R 22 ; DNA 2948F
SHOT: KINGFISH
TSHO: HI-ALT
SUJO: 1-520-000 ; 2-211-000 ; 2-212-000 ; 2-213-000 ; 2-214-000 ;
9-610-000 ; 9-680-000

TEMP: A2131

TITL: IMPROVED COMPUTATIONAL MODEL OF EARLY-TIME KINGFISH (U), 60 P.,
(SRD)

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DNA 2948F

.endblock

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copy: 1 id: 76129-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2951T
ADNO: 752066
AUTH: BAILEY L.E. ; PEYTON S. ; FRIEDMAN M.C.
CLSS: U

CCDE: MRVERA
CONN: DNA 01 72 C 0016
CORP: SYSTEMS, SCIENCE AND SOFTWARE (LA JOLLA, CA.)
DATE: 7203
DESC: Fluid Mechanics hydrodynamics L1
DESC: RADIATION-HYDRODYNAMIC TRANSPORT ; THEORY
REPN: SSS R 72 1115 ; DNA 2951T
SUJO: 9-410-000
TITL: MRVERA--THE MULTIREGION VERA CODE (U), 56 P., (U)

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DNA 2951T

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copy: 1 id: 76131-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2960F
ADNO: 752584
AUTH: FLANAGAN T.M. ; WROBEL T.F.
CLSS: U
CONN: DASA 01 71 C 0151
CORP: GULF ENERGY + ENVIRONMENTAL SYSTEMS CO. (SAN DIEGO, CA.)
DATE: 7211
DESC: SIMULATION (LINAC) SIMULATION (TRIGA) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 RESONATORS
EFFT: TREE
REPN: DNA 2960F ; GULF RT A12089
SUJO: 3-229-000
TITL: RADIATION-STABLE PRECISION QUARTZ OSCILLATORS (U), 72 P., (U)
TREE: 367

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DNA 2960F

.endblock

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copy: 1 id: 76138-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2961Z
ADNO: 523411
AUTH: BRADBURY J.N. ; GUNTON R.C. ; MCCORMAC B.M. ; MEYEROTT R.E.
CLSS: SRD 1
CONN: DASA 01 70 C 0162
CORP: LOCKHEED PALO ALTO RESEARCH LAB. (PALO ALTO, CA.)
DATE: 7205
DESC: SUMMARY
DESC: Nuclear Test Simulation Field Programs experiment design optical
radiation experiments UV visible IR L1
DESC: Nuclear Test Simulation Field Programs experiment design atmospheric
ionization RF propagation noise L5

REPN: LMSC B303831 ; DNA 2961Z
TSHO: HI-ALT
SUJO: 4-820-600 ; 4-823-000
TEMP: A2605
TITL: READINESS TEST PLANNING INTERIM FLOATING TEST SITE PLAN (U), 44 P.,
(SRD)

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DNA 2961Z

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copy: 1 id: 76139-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2963F 1
ADNO: 524956
AUTH: VULLIET W.G. ; DELMER T.N. ; WOODS A.J.
CLSS: SRD
CCDE: RAD-NOTE ; VERA
CONN: DASA 91 70 C 0079
CORP: GULF ENERGY AND ENVIRONMENTAL SYSTEMS, INC., GULF RADIATION
TECHNOLOGY (SAN DIEGO, CA.)

DATE: 7102
DESC: Radiation Transport x-ray L1 LOCAL THERMODYNAMIC EQUILIBRIUM
DESC: CODE SUMMARY
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L5 VERY
EARLY TIME

REPN: GULF RT 11023 VOL. 1 : DNA 2963F 1
SOCE: SPARTAN [REDACTED]
SUJO: 1-620-000 ; 9-640-000
TEMP: A3326 VOL. 1
TITL: RADIATIVE TRANSFER UNDER NONLOCAL THERMODYNAMIC EQUILIBRIUM
CONDITIONS; VOL. 1, APPLICATIONS TO DEVICES (U), 69 P., (SRD)

TREE: 930

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DNA 2963F 1

.endblock

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copy: 1 id: 76141-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2963F 2
ADNO: 524957
AUTH: VULLIET W.G. ; DELMER T.N. ; WOODS A.J.
CLSS: SRD CNWDI
CCDE: RAD-NOTE
CONN: DASA 01 70 C 0079
CORP: GULF ENERGY AND ENVIRONMENTAL SYSTEMS, INC., GULF RADIATION
TECHNOLOGY (SAN DIEGO, CA.)

DATE: 7102
DESC: Radiation Transport x-ray L1 ONE-D NON-LTE RADIATIVE TRANSFER

DESC: CODE
REPN: GULF RT 11023 VOL. 2 ; DNA 2963F 2
SUJO: 9-640-000
TEMP: A3326 VOL. 2
TTTL: RADIATIVE TRANSFER UNDER NONLOCAL THERMODYNAMIC EQUILIBRIUM
CONDITIONS; VOL. 2, THE RAD-NOTE COMPUTER PROGRAM (U), 236 P., (SRD
CNWDI)

TREE: 980

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DNA 2963F 2

.endblock

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copy: 1 id: 76142-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2963F 3

AUTH: VULLIET W.G. ; DELMER T.N. ; WOODS A.J.

CLSS: U

CONN: DASA 01 70 C 0079

CORP: GULF ENERGY AND ENVIRONMENTAL SYSTEMS, INC., GULF RADIATION
TECHNOLOGY (SAN DIEGO, CA.)

DATE: 7102

DESC: SUMMARY

DESC: Radiation Transport thermal L1 GENERAL DISCUSSION OF MODELS

REPN: GULF RT 11023 ; DNA 2963F 3

SUJO: 9-610-000

TTTL: RADIATIVE TRANSFER UNDER NONLOCAL THERMODYNAMIC EQUILIBRIUM
CONDITIONS; VOL. 3, PHYSICS OF A NONEQUILIBRIUM PLASMA (U), 103 P.,
(U)

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DNA 2963F 3

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copy: 1 id: 76143-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2966D

ADNO: 523999

AUTH: JORDAN T.M. ; POLL R.A. ; ROSADO J.A. ; STAHL R.H. ; STUART G.W. ;
TOMPkins J.E. ; WENAAS E.P.

CLSS: SRD

CCDE: PHOCUR ; SPARC ; TEDIEM ; TEMPER ; GRAP2 ; DIODE ; SUCUR ; ART-1D

CORP: A.R.T. RESEARCH CORP. ; R+D ASSOCIATES ; HARRY DIAMOND LABS. ;
SYSTEMS, SCIENCE AND SOFTWARE ; SCIENCE APPLICATIONS, INC. ; GULF
RADIATION TECHNOLOGY

DATE: 7208

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 DIODES

DESC: Nuclear Weapon Effects missile systems strategic electronics L1
TRUNCATED MISSILE

DESC: SIMULATION (FLASH X-RAY) ; THEORY EXPERIMENTAL SURVEY
DESC: Nuclear Weapon Effects structures aboveground models cylinders cones
rings L1 ALUMINUM TANK
EFFT: IEMP
EMPF: 391
REPN: DNA 2966D
SHOT: MILK SHAKE ; DIAGONAL LINE ; MINUTE STEAK
TSHO: UG-CONTAINED
SOCE: ██████████
SUJO: 3-112-130 ; 3-221-000 ; 3-259-400
TEMP: A2525
TTTL: PREDICTION OF INTERNAL ELECTROMAGNETIC PULSE (U), 98 P., (SRD)

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DNA 2966D

.endblock

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copy: 1 id: 76146-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2972F
ADNO: 753191
AUTH: STEINBERG H.A. ; TROUBETZKOY E.S. ; KALOS M.H.
CLSS: U
CCDE: SAM-CE
CONN: DNA 001 72 C 0057
CORP: MATHEMATICAL APPLICATIONS GROUP, INC. (ELMSFORD, NY)
DATE: 7209
DESC: THEORY CODE
DESC: Radiation Transport neutron L1
REPN: MR 7031 ; DNA 2972F
SUJO: 9-650-000
TTTL: DESIGN OF A MONTE CARLO RADIATION TRANSPORT CODE FOR THE ILLIAC TV
(U), 68 P.,(U)

TREE: 970
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DNA 2972F

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copy: 1 id: 76152-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2975F
AUTH: SCOTT L.
CLSS: SRD
CONN: DASA 01 68 C 0161 P003
CORP: SYSTEMS, SCIENCE AND SOFTWARE (LA JOLLA, CA.)
DATE: 7208
DESC: Nuclear Weapon Effects missile systems ABM L1
DESC: Nuclear Weapon Effects reentry systems RV L9
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L5 CO-60 STEADY STATE TESTING SURFACE
EFFECTS

DESC: SUMMARY OF RADIATION EFFECTS MEETING ; SUMMARY
DESC: Nuclear Weapon Effects missile systems strategic L1
DESC: Nuclear Weapon Effects missile systems strategic electronics L1
DESC: Nuclear Weapon Effects missile systems ABM electronics L1
EFFT: X-RAY ; NEUTRON ; GAMMA ; IEMP ; TREE
REPN: 3SCR 1113 ; DNA 2975F
SHOT: MINUTE STEAK
TSHO: UG-CONTAINED
SUJO: 3-112-100 ; 3-112-130 ; 3-112-200 ; 3-112-230 ; 3-113-000 ;
3-221-000
SYST: SAFEGUARD ; POSEIDON ; SENTINEL ; MARK 12 ; SPARTAN
TEMP: A3067
TITL: RADIATION EFFECTS (U), 29 P., (SRD)
TREE: 392

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DNA 2975F

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copy: 1 id: 76155-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2979 1
ADNO: 525936
AUTH: SPENCE P. ; WARD R. ; SMITH I. ; BENFORD J. ; ECKER B.M. ; PELLINEN
D. ; STAGGS V. ; STALLINGS C. ; WOOD D.

CLSS: CFRD
CCDE: BOXINT
CONN: DASA 01 71 C 0052
CORP: PHYSICS INTERNATIONAL CO. (SAN LEANDRO, CA.)
DATE: 7211
DESC: test instruments nuclear radiation dosimeters radiacs L1
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 STRIP DIODES
DESC: Radiation Transport electron L1
DESC: Simulation Facilities Techniques TREE L1
DESC: EXPERIMENTAL
REPN: PIFR 366 ; DNA 2979F 1
SUJO: 3-221-000 ; 4-272-000 ; 4-346-000 ; 9-680-000
TEMP: A3794
TITL: PRODUCTION OF ADVANCED X-RAY SOURCES USING INTENSE RELATIVISTIC
BEAMS; VOL. 1,ADVANCED PHOTON SOURCE TECHNOLOGY (U), 296 P., (CFRD)
TREE: 642

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DNA 2979 1

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copy: 1 id: 76159-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2980Z
ADNO: 523294
AUTH: SAPPENFIELD D.S.
CLSS: SRD
CCDE: MODEL 3
CONN: DNA 001 72 C 0145
CORP: MISSION RESEARCH CORP. (SANTA BARBARA, CA.)
DATE: 7211
DESC: Nuclear Weapon Environment Visible Output energy spectrum L1
DESC: Nuclear Weapon Environment Visible Output source strength total
intensity L1
DESC: Nuclear Weapon Environment Ultraviolet Output energy spectrum L1
DESC: Nuclear Weapon Environment Thermal Output rate L1
DESC: THEORY
REPN: MRC R 38 ; DNA 2980Z
SHOT:
TSHO: HI-ALT
SUJO: 1-240-000 ; 1-410-000 ; 1-420-000 ; 1-520-000
SYST: SPARTAN
TEMP: A2551
TTTL: THERMAL AND ULTRAVIOLET RADIATION FROM NUCLEAR BURSTS AT 80-100 KM
ALTITUDE (U), 18 P., (SRD)

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DNA 2980Z

.endblock

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copy: 1 id: 76162-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2986F
AUTH: HARRIS L. JR. ; TRIMBLE G.D. ; YOUNG J.C.
CLSS: U
CONN: DNA 001 72 C 0020
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7209
DESC: EXPERIMENTAL
DESC: Cross Sections neutron L1
REPN: DNA 2986F ; GULF RT A12292
SUJO: 9-820-000
TTTL: INTEGRAL EXPERIMENT TO TEST CARBON AND NITROGEN CROSS SECTIONS (U),
82 P., (U)
TREE: 412

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DNA 2986F

.endblock

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copy: 1 id: 76168-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2988F

ADNO: 756290
AUTH: COHEN M.O. ; BEER M.
CLSS: U
CCDE: ANTE 3/ENDF III
CONN: DASA 70 C 0102
CORP: MATHEMATICAL APPLICATIONS GROUP, INC. (ELMSFORD, N.Y.)
DATE: 7210
DESC: Radiation Transport neutron L1
DESC: THEORY CODE
REPN: MR 7028 ; DNA 2988F
SUJO: 9-650-000
TITL: ANTE 3 A FORTRAN COMPUTER CODE FOR THE SOLUTION OF THE ADJOINT
NEUTRON TRANSPORT EQUATION BY THE MONTE CARLO TECHNIQUE (U), 174 P.,
(U)

TREE: 970

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DNA 2988F

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copy: 1 id: 76172-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2990F
AUTH: SPERLING M.
CLSS: U
CCDE: MAZE 2
CONN: DNA 001 72 C 0054
CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA.)
DATE: 7210
DESC: test instruments nuclear radiation L1 SPECTROMETER
DESC: THEORY TABULAR
REPN: SAI 72 574 LJ ; DNA 2990F
SUJO: 4-340-000
TITL: SPECTRAL UNFOLDING-ITS MATHEMATICAL BASIS, IMPLEMENTATION AND
APPLICATION WITHMAZE2 (U), 124 P., (U)

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DNA 2990F

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copy: 1 id: 76174-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: DNA 2993F
AUTH: FISHER R.H. ; READ H.E.
CLSS: U
CCDE: RIP
CONN: DASA 01 70 C 0055
CORP: SYSTEMS, SCIENCE AND SOFTWARE (LA JOLLA, CA.)
DATE: 7209
DESC: Fluid Mechanics hydrodynamics L1

DESC: Nuclear Weapon Effects materials not systems associated L1
HOMOGENEOUS MATERIALS
DESC: equation of state heat of vaporization thermal conductivity opacity
L1 VARIOUS METALS
DESC: Radiation Transport x-ray L1
DESC: THEORY
DESC: Solid Mechanics stress-strain L1 ALUMINUM
EFFT: X-RAY ; AIR-BLAST
REPN: DNA 2993F ; SSS R 72 1324
SUJO: 3-240-000 ; 9-230-000 ; 9-410-000 ; 9-640-000 ; 9-710-000
TITL: RIP, A ONE-DIMENSIONAL MATERIAL RESPONSE CODE (U), 94 P., (U)

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DNA 2993F

.endblock

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copy: 1 id: 76177-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2994F
AUTH: SCOTT W.H. JR. ; DUPREE S.A. ; GROCE D.E. ; HUFFMAN D.L. ; PROFIO
E.A.

CLSS: U

CCDE: MORSE ; ENDF-B ; SUPERTOG ; POPOP 4 ; GAMLEGX ; FERDOR ; DOT

CONN: DASA 01 70 C 0053

CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA.)

DATE: 7212

DESC: test instruments nuclear radiation gamma L5

DESC: test instruments nuclear radiation neutron L5

DESC: Cross Sections gamma L5

DESC: SIMULATION (LINAC) SIMULATION (ELECTRON BEAM) ; THEORY EXPERIMENTAL
TABULAR

DESC: Radiation Transport gamma L1 CONCRETE LEAD

DESC: Cross Sections neutron L5

DESC: Radiation Transport neutron L1

REPN: SAI 71 553 LJ ; DNA 2994F

SUJO: 4-341-000 ; 4-342-000 ; 9-620-000 ; 9-650-000 ; 9-820-000 ;
9-830-000

TITL: MULTIGROUP ANALYSIS OF NEUTRON AND SECONDARY GAMMA RAY TRANSPORT IN
CONCRETE (U), 220 P., (U)

TREE: 960 ; 970

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DNA 2994F

.endblock

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copy: 1 id: 76178-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 2996F 1

ADNO: 527950

AUTH: LATKO R.J. ; CAMPBELL P.M. ; POMRANING G.C.

CLSS: SRD
CCDE: TRACE ; MTA (X-RAY OUTPUT AND TRANSPORT) ; SAI
CONN: DASA 01 71 C 0021
CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA.)
DATE: 7201
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1 OUTPUT
DESC: THEORY
DESC: Radiation Transport x-ray L1
REPN: DNA 2996F 1 ; SAI 71 254 LJ
SUJO: 1-620-000 ; 9-640-000
TEMP: A4461
TITL: DEVELOPMENT AND APPLICATION OF RADIATION HYDRODYNAMICS CODES, VOL. 1
(U), 216 P., (SRD)

TREE: 930

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DNA 2996F 1

.endblock

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copy: 1 id: 76180-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 3013F

ADNO: 525003

AUTH: LINDLEY W.B. ; ROUSE C.A. ; VULLIET W.G.

CLSS: SRD CNWDI

CCDE: RADOIL (2-D) ; PEEP ; SPUTTER ; CORONET

CONN: DASA 01 69 C 0049

CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)

DATE: 7211

DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L1

DESC: THEORY CODE SUMMARY

DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1

REPN: GULF RT A11108 ; DNA 3013F

SOCE: SPARTAN

SUJO: 1-610-000 ; 1-620-000

TEMP: A3339

TITL: TWO-DIMENSIONAL LATE-TIME CALCULATION OF A SPARTAN DEVICE MODEL (U),
136 P., (SRD CNWDI)

TREE: 930

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DNA 3013F

.endblock

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copy: 1 id: 76198-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: DNA 3021F

ADNO: 909361

AUTH: AZAREWICZ J.L. ; COLWELL J.F. ; LEADON R.E. ; MALLON C.E.

CLSS: U
CCDE: PN
CONN: DASA 01 71 C 0092
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7209
DESC: SIMULATION (REACTOR APFA III)
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 NPN PNP TRANSISTORS
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1 N/P P/N
EFFT: NEUTRON ; TREE
REPN: GULF RT A12116 ; DNA 3021F
SUJO: 3-221-000 ; 3-223-000
TITL: RADIATION EFFECTS STUDIES-SHORT-TERM ANNEALING (U), 138 P., (U)
TREE: 310 ; 362

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DNA 3021F

.endblock

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copy: 1 id: 76204-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 3023F
ADNO: 757358
AUTH: BARON M.J.
CLSS: U
CONN: DNA 001 72 C 0076
CORP: STANFORD RESEARCH INSTITUTE (MENLO PARK, CA.)
DATE: 7212
DESC: Solid Mechanics L1 DISSOCIATIVE RECOMBINATION COEFFICIENTS IN
E-REGION
DESC: radio microwave propagation abnormal conditions auroral disturbances
sudden ionospheric disturbances SID polar cap absorptions PCA solar
eclipse L1 AURORAL IONIZATION CLUTTER ELECTRON DENSITIES DURING 1972
SOLAR STORM
DESC: Composition Chemistry Atmosphere Reaction Rates L1
DESC: Solar Phenomena L1 1972 TOTAL SOLAR ECLIPSE
DESC: Ionosphere normal properties L1 DIURNAL SEASONAL BEHAVIOR SPREAD F
DESC: Radiation Transport plasma L1 IONOSPHERIC PLASMA
DESC: DOCUMENT DESCRIBES PROGRAMS COMPLETED DURING 1972 ; SUMMARY
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1 ELECTROJET CURRENTS
HIGH LATITUDE
DESC: Ionosphere L1 PLASMA TRANSPORT PHENOMENA
REPN: DNA 3023F ; SRI PROJ. 1703
SUJO: 5-400-000 ; 5-700-000 ; 5-710-000 ; 5-738-000 ; 5-800-000 ;
5-900-000 ; 9-200-000 ; 9-660-000
TITL: DNA PROJECT 617 RADAR-AURORAL IONOSPHERIC MEASUREMENTS (U), 326 P.,
(U)

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DNA 3023F

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copy: 1 id: 76206-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DNA 3024F
ADNO: 761637
AUTH: SAENGER E.L. ; SILBERSTEIN E.B. ; ARON B.S. ; HORWITZ H. ; KEREIAKES
J.G. ; CHEN I. ; WINGER C. ; GLESER G.C.
CLSS: U
CONN: DASA 01 69 C 0131
CORP: UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE (CINCINNATI, OH.)
DATE: 7212
DESC: Nuclear Weapon Effects on animals ionizing radiation chronic
external L1 CANCER RADIOTHERAPY
DESC: EXPERIMENTAL
EFFT: X-RAY ; GAMMA
REPN: DNA 3024F
SUJO: 3-312-210
TITL: RADIATION EFFECTS IN MAN--MANIFESTATIONS AND THERAPEUTIC EFFORTS
(U), 56 P., (U)

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DNA 3024F

.endblock

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copy: 1 id: 76207-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DNA 3034F
ADNO: 907902
AUTH: KRATZ H.R. ; RINEHART R.E.
CLSS: U
CONN: DASA 01 69 C 0127
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA.)
DATE: 7211
DESC: nuclear test detection seismic detection L1
DESC: EXPERIMENTAL SUMMARY
REPN: GULF RT A12384 ; DNA 3034F
SHOT: DIAMOND DUST
SUJO: 4-910-100
TITL: EXPERIMENTAL INVESTIGATION OF GRAPHITE HEAT SINKS FOR DECOUPLING
UNDERGROUND NUCLEAR EXPLOSIONS (U), 72 P., (U)

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DNA 3034F

.endblock

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copy: 1 id: 76217-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: DNA 3063F

ADNO: 526185
AUTH: CRAMER J.D. ; WILSON H.L.
CLASS: SRD CNWDI
CCDE: DIANE ; WILDEBEEST ; NIXON ; PIPES ; DRAGNET
CONN: DASA 01 71 C 0096
CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA.)
DATE: 7212
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L1
DESC: Nuclear Weapon Environment Initial Gamma energy spectrum L1
DESC: Nuclear Weapon Environment X-ray Output energy spectrum L1
DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1
DESC: THEORY EXPERIMENTAL
REPN: SAI 72 234 LJ ; DNA 3063F
TSHO: UG-CONTAINED
SOCE: MACE-9 ; MACE-11
SUJO: 1-110-000 ; 1-120-000 ; 1-620-000 ; 1-720-000
TEMP: A3872
TITL: DEVICE OUTPUT AND RADIATION ENVIRONMENTS FOR UNDERGROUND NUCLEAR
TESTS (U), 122 P., (SRD CNWDI)
TREE: 900

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DNA 3063F

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created: 12/27/1991 type: REPORT permanent

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INUM: DNA 3064F
ADNO: 763489
AUTH: SARGIS D.A. ; PARKINSON E.R. ; WOOD J.N. ; DIETZ R.E. ; STEVENS C.A.
CLASS: U
CCDE: 05RNIES
CONN: DASA 01 71 C 0155
CORP: SCIENCE APPLICATIONS, INC. (LA JOLLA, CA.)
DATE: 7208
DESC: Radiation Transport neutron L1
DESC: Nuclear Weapon Environment Induced Electromagnetic Pulse EMP L1
COMPTON CURRENT
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry prompt
neutron L1
DESC: THEORY TABULAR CODE
DESC: Nuclear Weapon Phenomenology ionization mechanisms chemistry initial
gamma L1
DESC: Radiation Transport gamma L1
EFFT: EMP
EMPF: 240
REPN: SAI 72 556 LJ ; DNA 3064F
TSHO: SURFACE
SUJO: 2-312-200 ; 2-312-300 ; 2-510-000 ; 9-620-000 ; 9-650-000
TITL: LATE-TIME SOURCES FOR CLOSE-IN EMP (U), 325 P., (U)
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DNA 3064F

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: DNA 3065F

ADNO: 526150

AUTH: Stevens C.A.

CLSS: SRD

CCDE: 05R-NIES ; DORF

CONN: DNA 001 72 C 0004

CORP: Science Applications, Inc. (La Jolla, CA.)

DATE: 7212

DESC: THEORY

DESC: Nuclear Weapon Environment Prompt Neutron energy spectrum L1

DESC: Nuclear Weapon Environment Ground Shock motion strain fracture

displacement particle velocity L1 RELATION OF GROUND MOTION TO
NEUTRON ENERGY DEPOSITION

DESC: Radiation Transport neutron L5 IN GROUND OR WATER

DESC: Nuclear Weapon Environment Ground Shock heating thermoluminescence
transitions L1 NEUTRON HEATING OF WET OR DRY ALLUVIUM

REPN: SAI 72 247 LJ ; DNA 3065F

SOCE: SS-9 ; (3N) ; MK 56 ; MK 12

SUJO: 1-120-000 ; 2-621-000 ; 2-629-000 ; 9-650-000

TEMP: A3858

TITL: Neutron Influence on Ground Motion (U), 47 P., (SRD)

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DNA 3065F

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INUM: EMP 1-10-125

ABS: This note considers some of the properties of electric and magnetic dipole antennas for radiating transient electromagnetic pulses. Each type has certain advantages and disadvantages associated with the electrical generators one might use with it. In particular one might use a magnetic dipole radiator with an appropriate pulse generator to maximize the low frequencies radiated in the pulse waveform. However, such a pulse generator might typically have a comparatively slow rise time with an accompanying loss of the high frequencies radiated. One application of electric and magnetic dipole radiators would be to use them in combination and obtain the best features of both. This note considers some general properties of radiating current distributions leading to electric and magnetic dipole radiators for best low frequency radiation.

ABS: Electric and magnetic dipoles are then combined and some of the properties of the combination are considered.

AUTH: Baum C.E.
CLSS: U
CORP: Air Force Weapons Lab.
DATE: 7101
DESC: Simulation Facilities Techniques EMP L1
DESC: THEORY
EMPF: 722
SUJO: 4-271-000
SYMJ: Electromagnetic Pulse Sensor and Simulation Notes; Vol. 10, Notes
121-126
TITL: Some Characteristics of Electric and Magnetic Dipole Antennas for
Radiating Transient Pulses (U), 170 P., (U)

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EMP 1-10-125

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copy: 1 id: 46930-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: EMP 1-14-156

ABS: This note discusses a new EMP simulator concept, one for simulating the system generated EMP in exoatmospheric regions. It uses a pulsed photon source (Bremmstrahlung or otherwise) illuminating a space system in a vacuum chamber. There are various important features which improve the simulation quality. This type of simulator can use electron backscatter reduction from the tank walls as well as use electron repelling grids. The photons can be appropriately collimated to remove those not incident on the space system and "get lost" holes can be used to reduce backscatter from the vacuum tank associated with the main photon beam in the case of high energy photons. The required vacuum in the chamber is related to the electron collisions with the gas and to electrical breakdown. The electromagnetic interactions of the space system with the test chamber are rather important.

ABS: These include capacitance to the chamber walls, cavity resonances, and reflection of higher frequencies from the cavity walls. Capacitance is associated with the chamber size. Cavity resonances can be damped and high frequency reflections reduced by the use of appropriate lossy materials near the cavity walls. Various figures of merit can be defined to quantitatively characterize the deviation of various simulator parameters from those of the environment being simulated.

AUTH: Baum C.E.
CLSS: U
CORP: Air Force Weapons Lab.
DATE: 7209
DESC: Simulation Facilities Techniques x-ray effects L1
DESC: THEORY
DESC: Simulation Facilities Techniques EMP L1 SGEMP
EMPF: 726
SUJO: 4-231-000 ; 4-271-000
SYMJ: Electromagnetic Pulse Sensor and Simulation Notes; Vol. 14, Notes

155-160

TITL: Technique for Simulating the System Generated Electromagnetic Pulse
Resulting from an Exoatmospheric Nuclear Weapon Radiation
Environment (U), 134 P., (U)

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EMP 1-14-156

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copy: 1 id: 52775-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: EMP 1-14-159

ABS: The radiated electric field is calculated for an infinite
cylindrical antenna driven by a step-function voltage applied across
a finite gap. Plots of the time history of the radiated field for
various gap sizes and observation angles are presented, and both the
early and late time asymptotic fields are investigated.

AUTH: Pine Z.L. ; Tesche F.M.

CLSS: U

CORP: Dikewood Corp.

DATE: 7210

DESC: THEORY

DESC: Simulation Facilities Techniques EMP L1

EMPF: 722

SUJO: 4-271-000

SYMJ: Electromagnetic Pulse Sensor and Simulation Notes; Vol. 14, Notes
155-160

TITL: Pulse Radiation by an Infinite Cylindrical Antenna with a Source Gap
with a Uniform Field (U), 34 P., (U)

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EMP 1-14-159

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INUM: EMP 1-15-161

ABS: A parametric study of a parallel plate transmission line of finite
width near a perfectly conducting plane ground is carried out by a
numerical method for various ground proximities and the plate
widths. In particular, the impedance factor $f_{sub g}$, of the
transmission line system and relative electric field in some region
surrounding the transmission line system are computed.

AUTH: Chu C. ; Cho S.K.

CLSS: U

CORP: Univ. of Michigan Radiation Lab. (Ann Arbor, MI)

DATE: 7211

DESC: Simulation Facilities Techniques EMP L1

DESC: THEORY

EMPF: 721

SUJO: 4-271-000
SYMJ: Electromagnetic Pulse Sensor and Simulation Notes; Vol. 15, Notes
161-166
TITL: Field Distribution for Parallel Plate Transmission Line of Finite
Width in Proximity to a Conducting Plane (U), 118 P., (U)

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EMP 1-15-161

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created: 12/27/1991 type: REPORT permanent

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INUM: EMP 2-2

ABS: Subjects covered in the volume are : spherical coordinate expansion
of Maxwell's equations for computer solution : conservation
equations for electromagnetic energy density and momentum density
-transient spherical waves : the reflection of pulsed waves from the
surface of a conducting dielectric : calculations of the EMP from
high altitude nuclear detonations : electromagnetic radiation from a
nuclear explosion in space : the electromagnetic signal due to the
exclusion of the earth's magnetic field by nuclear explosions : the
close-in electric field generated by a spherically symmetric nuclear
burst : electromagnetic signals from high-altitude nuclear
explosions : air conductivity produced by nuclear explosions : a
note on missile warhead vulnerability -electromagnetic signals
produced by low-altitude nuclear explosions -the Kompaneets model
for radio emission from a nuclear explosion

ABS: : the Compton current and the energy deposition rate from gamma
quanta -electromagnetic signals from surface nuclear explosions :
detection of the electromagnetic radiation from nuclear explosions
in space : satellite-based detection of the electromagnetic signal
from low and intermediate altitude nuclear explosions : detection of
high-frequency electromagnetic pulse radiation from nuclear
explosions : effects of propagation on the high-frequency
electromagnetic radiation from low-altitude nuclear explosions :
close-in EMP : numerical programs for solving hyperbolic systems by
the method of characteristics : radio emission from a nuclear
explosion : the development of a radio signal from a nuclear
explosion in the atmosphere : detection of the electromagnetic pulse
radiation for a nuclear test.

CLSS: U

CONN: F 29601 70 C 0078

CORP: Air Force Weapons Lab. (Kirtland AFB, NM)

DATE: 7104

EMPF: 220

REPN: EMP 2 02

TITL: Electromagnetic Pulse Theoretical Notes; Vol. 2, Notes 22 through 48
(U) 43 P., (U)

TNFF: 4881

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EMP 2-2

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created: 12/27/1991 type: REPORT permanent

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INUM: EMP 2-5-115

ABS: Poisson's equation is solved for the charge density, electric field, and potential as a function of distance, due to a surface current of electrons emitted from a flat surface. The current is assumed independent of time and all electrons are returned to the plate due to the space potential of the electron cloud. The development is general in the sense that no restrictions are placed on the distribution of electron energies; however, three particular electron spectra are considered in detail: monoenergetic, uniform, and triangular spectra. Finally, assuming the surface current is produced by a photon source, generalized scaling laws for the electric field and penetration distances as a function of photon fluence, radiation, time, and electron energy are obtained.

AUTH: Hale C.R.

CLSS: U

CORP: Air Force Weapons Lab.

DATE: 7104

DESC: THEORY

DESC: Nuclear Weapon Effects structures aboveground models plates slabs L1
PLATES

EFFT: IEMP

EMPF: 391

SUJO: 3-259-300

SYMJ: Electromagnetic Pulse Theoretical Notes; Vol. 5 (U)

TITL: Electric Fields Produced by an Electronic Current Emitted
Perpendicular to a Surface (U), 15 P., (U)

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EMP 2-5-115

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copy: 1 id: 53009-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: EMP 1-7-124

ABS: A model is developed for estimating currents and voltages induced by short pulses of x rays and gamma rays on the external structure of satellites. A condition for the validity of the model is that the ejected electrons travel distances small compared with the satellite dimensions in the duration of the radiation pulse.

AUTH: Longmire C.L.

CLSS: U

CORP: Mission Research Corp.

DATE: 7108

DESC: THEORY

DESC: Nuclear Weapon Effects space systems spacecraft or satellites
electronics L1

EFFT: EMP
EMPF: 398
SUJO: 3-114-300
SYMJ: Electromagnetic Pulse Theoretical Notes, Vol. 7 (U)
TITL: External System Generated EMP on Some Types of Satellite Structure
(U), 18 P., (U)

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EMP 2-7-124

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created: 12/27/1991 type: REPORT permanent

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INUM: EMP 2-8-162

ABS: This paper documents an application of some work by Dr. Conrad Longmire concerning a first-order approximation to the potential developed on a sphere in free space due to a nuclear burst. The burst is assumed exoatmospheric and charge is assumed to be emitted from the sphere instantaneously. A study is done to compare the effect of several different x-ray spectra, yields, and photoelectric conversion efficiency. Results are given graphically as potential with respect to infinity versus range, and sensitivity of potential to changes in yield or conversion efficiency.

AUTH: Williams L.J.

CLSS: U

CORP: Air Force Weapons Lab. (Kirtland AFB, NM)

DATE: 7201

DESC: THEORY

DESC: Nuclear Weapon Effects space systems L1

EFFT: IEMP

EMPF: 391

SUJO: 3-114-000

SYMJ: Electromagnetic Pulse Theoretical Notes, Vol. 8 (U)

TITL: Potential Induced on a Sphere Due to Transient Radiation (U), 15 P.,
(U)

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EMP 2-8-162

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copy: 1 id: 53017-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: EMP 3-6-84

ABS: Computer techniques for solving electromagnetic radiation and scattering problems in the resonance region employing the thin-wire electric-field integral equation are discussed and demonstrated. The versatility and wide applicability of this approach for electromagnetic computer modeling are emphasized, and numerous sample results are presented to illustrate the method's accuracy and utility. Special attention is also devoted to evaluation of current

and charge distributions on the structure and the near fields which result.

AUTH: Gee S. ; Miller E.K. ; Poggio A.J. ; Selden E.S. ; Burke G.J.
CLSS: U
CORP: MBAssociates (San Ramon, CA)
DATE: 7107
DESC: THEORY
DESC: Electromagnetic Theory Applications L1
EMPF: 302 ; 304
SUJO: 9-300-000
SYMJ: Electromagnetic Pulse Interaction Notes, Vol.6 (U)
TITL: Numerical Method for Obtaining the Current and Charge Distributions,
and Near- and Far-Fields of Thin-Wire Structures (U), 30 P., (U)

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EMP 3-6-84

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INUM: EMP 5-1-09

ABS: Discussions of two problem areas relating to blackbox susceptibility testing, using direct-drive simulation, are presented. The first is on the problem of simulating with sufficient accuracy realistic signal distribution within complex cables. A program to determine the simulation accuracy for a matrix of possible variables is suggested for considerations. The second is on the problem of fault isolation and suggests the limited use of analysis combined with special fault detectors to aid in the unambiguous detection of failures.

AUTH: Keyser R.C.
CLSS: U
CONN: F 29601 70 C 0029
CORP: Gulf Radiation Technology
DATE: 7203
DESC: Simulation Facilities Techniques EMP L1
DESC: TABULAR
EMPF: 725
SUJO: 4-271-000
SYMJ: Electromagnetic Pulse System Design and Assessment Notes, Vol. 1 (U)
TITL: Laboratory EMP Susceptibility Testing of Blackboxes: Some Problems
and Suggested Solutions (U), 19 P., (U)

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EMP 5-1-09

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copy: 1 id: 52916-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71

CLSS: U
CORP: INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC. (NEW YORK,
NY)
DATE: 7112
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic piecparts integrated circuits L1
DESC: Nuclear Weapon Effects electronic piecparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
REPN: IEEE NS 18 6
SUJO: 3-221-000 ; 3-222-000
TITL: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6; ANNUAL
CONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS (U), CA. 500 P.,
(U)
TREE: 100

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE71-031
AUTH: RANDOLPH L.P. ; OSWALD R.B. JR. ; THORPE A.N.
CLSS: U
CORP: HARRY DIAMOND LABS. (WASH., DC) ; HOWARD UNIVERSITY (WASH., DC)
DATE: 7100
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic piecparts materials basic
mechanisms L1
SUJO: 3-220-200
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: RADIATION-INDUCED CHANGES IN THE PHOTOLUMINESCENCE SPECTRA OF
CADMIUM SULFIDE (U), 9 P., (U)
TREE: 361

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE71-040
AUTH: ARORA B.M. ; AHLBURN B.T. ; COMPTON W.D.
CLSS: U
CORP: UNIVERSITY OF ILLINOIS (URBANA, IL) ; TEXAS INSTRUMENTS (DALLAS, TX)
; FORD MOTOR CO. (DEARBORN, MI)
DATE: 7100
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical

devices sensors IR detectors L1

EFFT: NEUTRON ; TREE
SUJO: 3-133-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TEMP: U
TITL: RADIATION-INDUCED LASER ACTION IN CDSE (U), 5 P., (U)
TREE: 361

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-045
AUTH: MALLON C. ; HARRITY J.W.
CLSS: U
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA)
DATE: 7100
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

EFFT: TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: SHORT-TERM ANNEALING IN TRANSISTORS IRRADIATED IN THE BIASED-OFF
MODE (U), 5 P., (U)
TREE: 310

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-084
AUTH: PEEL J.L. ; EDEN R.C.
CLSS: U
CORP: NORTH AMERICAN ROCKWELL ELECTRONICS GROUP (ANAHEIM, CA) ; NORTH
AMERICAN ROCKWELL SCIENCE CENTER (THOUSAND OAKS, CA)
DATE: 7100
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

EFFT: TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: STUDY OF IONIZING RADIATION DAMAGE IN MOS STRUCTURES USING INTERNAL
PHOTOEMISSION (U), 7 P., (U)
TREE: 325

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-091

AUTH: LINDMAYER J.

CLSS: U

CORP: COMSAT LABS. (CLARKSBURG, MD)

DATE: 7100

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: EXPERIMENTAL

EFFT: TREE

SUJO: 3-221-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6

TITL: RADIATION AND OXIDE-METAL INTERACTIONS IN MOS (U), 8 P., (U)

TREE: 325

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-099

AUTH: POWELL R.J. ; DERBENWICK G.F.

CLSS: U

CORP: BELL TELEPHONE LABS., INC. (MURRAY HILL, NJ)

DATE: 7100

DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 BASIC MECHANISMS

DESC: EXPERIMENTAL

EFFT: TREE

SUJO: 3-220-200

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6

TITL: VACUUM ULTRAVIOLET RADIATION EFFECTS IN SI02 (U), 7 P., (U)

TREE: 200

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-117

AUTH: AUBUCHON K.G.
CLSS: U
CORP: HUGHES AIRCRAFT CO. (NEWPORT BEACH, CA)
DATE: 7100
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: EXPERIMENTAL
EFFT: TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: RADIATION HARDENING OF P-MOS DEVICES BY OPTIMIZATION OF THE THERMAL
SI02 GATE INSULATOR (U), 9 P., (U)
TREE: 325 ; 430

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IEEE71-117

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-131
AUTH: MICHELETTI F.B. ; KOLONDR A F.
CLSS: U
CORP: RCA LABS. (PRINCETON, NJ)
DATE: 7100
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: THEORY EXPERIMENTAL
EFFT: TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: RELAXATION PHENOMENA ASSOCIATED WITH RADIATION-INDUCED TRAPPED
CHARGE IN A1203MOS DEVICES (U), 7 P., (U)
TREE: 325

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IEEE71-131

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-150
AUTH: CHADSEY W.L. ; KOHLBERG I.
CLSS: U
CCDE: POEM
CORP: GENERAL ELECTRIC CO. (PHILADELPHIA, PA) ; ANALYTICAL SYSTEMS CORP.
(BURLINGTON, MA)
DATE: 7100
DESC: Radiation Transport electron L1
DESC: THEORY EXPERIMENTAL

EMPF: 391
SUJO: 9-680-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: COMPUTATION OF PHOTON RADIATION INDUCED ELECTRON EMISSION (U), 12
P., (U)

TREE: 990

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-162

AUTH: FREDERICKSON A.R. ; BURKE E.A.

CLSS: U

CORP: AIR FORCE CAMBRIDGE RESEARCH LABS. (BEDFORD, MA)

DATE: 7100

DESC: Radiation Transport electron L1

DESC: EXPERIMENTAL

EMPF: 391

SUJO: 9-680-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6

TITL: IONIZATION, SECONDARY EMISSION, AND COMPTON CURRENTS AT GAMMA
IRRADIATED INTERFACES (U), 8 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-178

AUTH: HAI F. ; BERNSTEIN M.J.

CLSS: U

CORP: AEROSPACE CORP. (EL SEGUNDO, CA)

DATE: 7100

DESC: THEORY EXPERIMENTAL

DESC: Radiation Transport electron L1

EMPF: 391

SUJO: 9-680-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6

TITL: PHOTOEMISSION FROM POLYMERS (U), 7 P., (U)

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IEEE71-178

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-185
AUTH: SUKIS D.R.
CLSS: U
CORP: RAYTHEON CO. (SUDBURY, MA)
DATE: 7100
DESC: test instruments nuclear radiation dosimeters radiacs L1
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation gamma L1
SUJO: 4-341-000 ; 4-346-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: THERMOLUMINESCENT PROPERTIES OF CAF 2:DY TLD'S (U), 5 P., (U)
TREE: 651 ; 655

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INUM: IEEE71-190
AUTH: FRIDDELL K.D. ; LOWREY A.R.
CLSS: U
CORP: BOEING CO. (SEATTLE, WA)
DATE: 7100
DESC: THEORY EXPERIMENTAL
DESC: test instruments nuclear radiation neutron L1
SUJO: 4-342-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: TWO ACTIVE HIGH-INTENSITY NEUTRON DETECTORS (U), 10 P., (U)
TREE: 652

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IEEE71-190

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-220
AUTH: LUBELL J.I. ; GRATT L.B.
CLSS: U
CORP: TRW SYSTEMS (REDONDO BEACH, CA)
DATE: 7100
DESC: THEORY SUMMARY
DESC: Nuclear Weapon Effects electronic subsystems L1
DESC: Nuclear Weapon Effects electronic subsystems analysis circuit
network L1

EFFT: TREE
SUJO: 3-214-000 ; 3-219-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: COMPUTER-AIDED SYSTEM APPROACH TO THE RADIATION VULNERABILITY OF A
DIVIDE BY TWENTY COUNTER (U), 7 P., (U)

TREE: 330 ; 341

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IEEE71-220

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-243

AUTH: OLSON R.J. ; ALEXANDER D.R. ; ANTINONE R.J.

CLSS: U

CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB, NM)

DATE: 7100

DESC: Nuclear Weapon Effects electronic subsystems computers memory L1

DESC: TABULAR

EFFT: TREE

SUJO: 3-212-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6

TITL: RADIATION RESPONSE STUDY OF NEW RADIATION-HARDENED LOW POWER TTL
SERIES (U), 7P., (U)

TREE: 341

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-258

AUTH: KJAR <.A. ; BELL J.E.

CLSS: U

CORP: NORTH AMERICAN ROCKWELL (ANAHEIM, CA)

DATE: 7100

DESC: THEORY SUMMARY

DESC: Nuclear Weapon Effects electronic piecparts integrated circuits L1

EFFT: TREE

SUJO: 3-222-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6

TITL: CHARACTERISTICS OF MOS CIRCUITS FOR RADIATION-HARDENED AEROSPACE
SYSTEMS (U), 5 P., (U)

TREE: 325

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: IEEE71-263
AUTH: HABING D.H. ; SHAFER B.D.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM)
DATE: 7100
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: THEORY EXPERIMENTAL
EFFT: TREE
SUJO: 3-222-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: MODELING AND RADIATION EFFECTS STUDY OF AN LSI/MOS LOGIC SYSTEM (U),
10 P., (U)
TREE: 325

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE71-273
AUTH: SIBLEY W.A.
CLSS: U
CORP: OKLAHOMA STATE UNIVERSITY (STILLWATER, OK)
DATE: 7100
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1
DESC: EXPERIMENTAL
EFFT: TREE
SUJO: 3-220-200
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: RADIATION DAMAGE IN OXIDES AND OTHER MATERIALS (U), 8 P., (U)
TREE: 200

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IEEE71-273

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE71-281
AUTH: HUGHES R.C.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM)
DATE: 7100
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 DIELECTRIC

DESC: THEORY EXPERIMENTAL
EFFT: TREE
SUJO: 3-229-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: RADIATION-INDUCED CONDUCTIVITY IN POLYMERS: POLY-N-VINYLCARBAZOLE
(U), 7 P., (U)

TREE: 385

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-288

AUTH: RAYMOND J.P. ; POCOCK D.N.

CLSS: U

CORP: NORTHROP CORPORATE LABS. (HAWTHORNE, CA)

DATE: 7100

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

EFFT: TREE

SUJO: 3-222-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6

TITL: TRANSIENT IONIZING RADIATION EFFECTS IN MOS/LSI (U), 7 P., (U)

TREE: 325

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IEEE71-288

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copy: 1 id: 82631-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-295

AUTH: BERG N. ; DROPKIN H.

CLSS: U

CORP: HARRY DIAMOND LABS. (WASH., DC)

DATE: 7100

DESC: THEORY EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1

EFFT: TREE

SUJO: 3-221-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6

TITL: EFFECTS OF IONIZING RADIATION ON GUNN DIODE OSCILLATORS (U), 9 P.,

(U)

TREE: 367 ; 310

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IEEE71-295

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copy: 1 id: 82632-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-304
AUTH: SHEDD W. ; BUCHANAN B. ; DOLAN R.
CLSS: U
CORP: AIR FORCE CAMBRIDGE RESEARCH LABS. (BEDFORD, MA)
DATE: 7100
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: TRANSIENT RADIATION EFFECTS IN SILICON DIODES NEAR AND IN AVALANCHE
BREAKDOWN (U), 6 P., (U)
TREE: 310

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IEEE71-304

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copy: 1 id: 82633-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-318
AUTH: NEAMEN D.A. ; GRANNEMANN W.W.
CLSS: U
CORP: UNIVERSITY OF NEW MEXICO (ALBUQUERQUE, NM)
DATE: 7100
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1
EFFT: TREE
SUJO: 3-220-200
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: EXPERIMENTAL DETERMINATION OF THE GENERATION RATE CONVERSION FACTOR
USING A PULSE OF IONIZING RADIATION OF ARBITRARY SHAPE (U), 4 P.,
(U)

TREE: 200

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IEEE71-318

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-322

AUTH: BARNES C.E.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM)
DATE: 7100
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1
EFFT: TREE
SUJO: 3-133-000 ; 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: RADIATION EFFECTS IN ELECTROLUMINESCENT DIODES (U), 10 P., (U)
TREE: 361 ; 310

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IEEE71-322

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-332
AUTH: LONG D.M.
CLSS: U
CONN: F 19628 69 C 0246
CORP: GENERAL ELECTRIC CO. (PHILADELPHIA, PA)
DATE: 7100
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: THEORY
EFFT: TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: JFET TRANSIENT RADIATION RESPONSE (U), 8 P., (U)
TREE: 310

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-350
AUTH: SHAFER B.D. ; BURGHARD R.A.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM)
DATE: 7100
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: THEORY EXPERIMENTAL

EFFT: NEUTRON ; GAMMA ; TREE ; INTEGRATED
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: EVALUATION OF COMBINED RADIATION EFFECTS TO TRANSISTORS (U), 9 P.,
(U)

TREE: 310

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-359

AUTH: SROUR J.R.

CLSS: U

CORP: NORTHROP CORPORATE LABS. (HAWTHORNE, CA)

DATE: 7100

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic piecparts integrated circuits L1

EFFT: TREE

SUJO: 3-222-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6

TITL: EFFECTS OF IONIZING RADIATION ON THIN-FILM SEMICONDUCTOR DEVICES

(U), 7 P., (U)

TREE: 320

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copy: 1 id: 82640-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-397

AUTH: NOTTHOFF J.K.

CLSS: U

CORP: MCDONNELL DOUGLAS ASTRONAUTICS CO. (HUNTINGTON BEACH, CA)

DATE: 7100

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic piecparts transistors diodes

silicon-controlled rectifiers L1

EFFT: TREE

SUJO: 3-221-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6

TITL: RADIATION RESPONSES OF MATCHED SILICON JUNCTION FIELD-EFFECT

TRANSISTORS (U), 7 P., (U)

TREE: 310

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IEEE71-397

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copy: 1 id: 82646-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-404
AUTH: PRINCE J.L. ; STEHLIN R.A.
CLSS: U
CORP: TEXAS INSTRUMENTS, INC. (DALLAS, TX)
DATE: 7100
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic piecparts transistors diodes
silicon-controlled rectifiers L1
EFFT: GAMMA ; TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: EFFECT OF C060 GAMMA RADIATION ON NOISE PARAMETERS OF BIPOLAR
TRANSISTORS (U),6 P., (U)
TREE: 310

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-436
AUTH: CHAFFIN R.J.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM)
DATE: 7100
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1
EFFT: TREE
SUJO: 3-133-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: IONIZING RADIATION EFFECTS IN MICROWAVE CAVITIES (U), 3 P., (U)
TREE: 386

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IEEE71-436

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71-443
AUTH: HAFFNER J.W.
CLSS: U

CORP: NORTH AMERICAN ROCKWELL CORP. (DOWNEY, CA)
DATE: 7100
DESC: TABULAR
DESC: Magnetic Fields Electric Currents in the Upper Atmosphere Trapped
Radiation Particle Fluxes Space Radiation L1
SUJO: 5-800-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, VOL. NS-18, NO. 6
TITL: NATURAL NUCLEAR RADIATION ENVIRONMENTS FOR THE GROUND TOUR MISSIONS
(U), 11 P., (U)

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copy: 1 id: 82653-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71SP-005
AUTH: RANDOLPH L.P. ; OSWALD R.B. JR. ; THORPE A.N.
CLSS: U
CORP: HARRY DIAMOND LABS (WASHINGTON DC) ; HOWARD UNIVERSITY (WASHINGTON
DC)
DATE: 7107
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1 GAMMA RAYS
DESC: SIMULATION (COBALT 60) ; SUMMARY
SUJO: 4-170-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: RADIATION-INDUCED CHANGES IN THE PHOTOLUMINESCENCE SPECTRUM OF
CADMIUM SULFIDE(U), 3 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71SP-008
AUTH: ARORA B.M. ; AHLBURN B.T. ; COMPTON W.D.
CLSS: U
CONN: F 33615 69 C 1251 ; DAAB 07 67 C 0199
CORP: UNIVERSITY OF ILLINOIS (URBANA ILL)
DATE: 7107
DESC: SUMMARY
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L5 NEUTRONS
SUJO: 4-170-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: RADIATION INDUCED LASER ACTION IN CDSE (U), 4 P., (U)

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copy: 1 id: 82657-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71SP-016
AUTH: HARRITY J.W. ; MALLON C.E.
CONN: F 29601 70 C 0061
CORP: GULF RADIATION TECHNOLOGY
DATE: 7107
DESC: SUMMARY
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L5 NEUTRONS ANNEALING
SUJO: 4-170-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: SHORT-TERM ANNEALING IN TRANSISTORS IRRADIATED IN THE BIASED-OFF
MODE (U), 6 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71SP-033
AUTH: PEEL J.L.
CLSS: U
CORP: NORTH AMERICAN ROCKWELL, AUTONETICS DIV (ANAHEIM CA)
DATE: 7107
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1 PHOTOCURRENTS
DESC: MOS DEVICES ; SUMMARY
SUJO: 4-170-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: STUDY OF IONIZING RADIATION DAMAGE IN MOS STRUCTURES USING INTERNAL
PHOTOEMISSION (U), 4 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71SP-037
AUTH: LINDMAYER J.
CLSS: U
CORP: COMSAT LABS. (CLARKSBURG MD)
DATE: 7107

DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L5

DESC: SIMULATION (COBALT 60) MOS DEVICES ; SUMMARY
SUJO: 4-170-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: RADIATION AND OXIDE-METAL INTERACTIONS IN MOS (U), 5 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71SP-051
AUTH: AUBUCHON K.G.
CLSS: U
CONN: N 00014 17 C 0079
CORP: HUGHES AIRCRAFT CO (NEWPORT BEACH CA)
DATE: 7107
DESC: SUMMARY
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L5 PMOS DEVICES

SUJO: 4-170-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: RADIATION HARDENING OF P-MOS DEVICES BY OPTIMIZATION OF THE THERMAL
SIO2 GATE INSULATOR (U), 4 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71SP-055
AUTH: CRICCHI J.R. ; BARBE D.F.
CLSS: U
CORP: WESTINGHOUSE ADVANCED TECHNOLOGY LABS (BALTIMORE MD)
DATE: 7107
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L5 MIS DEVICES

DESC: SUMMARY
SUJO: 4-170-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: ELECTRONIC RECOVERY FROM RADIATION EFFECTS IN CMNOS STRUCTURES (U),
15 P., (U)

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copy: 1 id: 82666-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE71SP-070
AUTH: CHADSEY W.L.
CLSS: U
CCDE: POEM
CORP: GENERAL ELECTRIC CO (PHILADELPHIA PA)
DATE: 7107
DESC: SUMMARY
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L5 IEMP
SUJO: 4-170-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: COMPOSITION OF PHOTON RADIATION-INDUCED ELECTRON EMISSION (U), 3 P.,
(U)

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IEEE71SP-070

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE71SP-090
AUTH: SUKIS D.R.
CLSS: U
CORP: RAYTHEON CO (SUDBURY MASS)
DATE: 7107
DESC: test instruments nuclear radiation dosimeters radiacs L5
DESC: SUMMARY
SUJO: 4-346-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: THERMOLUMINESCENT PROPERTIES OF CAF2. DY TLD S (U), 3 P., (U)

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE71SP-093
AUTH: FRIDDELL K.D. ; LOWREY A.R.
CLSS: U
CONN: DAAG 39 68 C 0054
CORP: BOEING CO (SEATTLE WASH)
DATE: 7107
DESC: SUMMARY
DESC: test instruments nuclear radiation proton alpha heavy particle L5
NEUTRONS

SUJO: 4-343-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: TWO ACTIVE HIGH-INTENSITY NEUTRON DETECTORS (U), 3 P., (U)

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copy: 1 id: 82671-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71SP-123
AUTH: OLSON R.J. ; ALEXANDER D.R. ; ANTINONE R.J.
CLSS: U
CORP: AIR FORCE WEAPONS LAB. (KIRTLAND AFB NM)
DATE: 7107
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L5 NEUTRON GAMMA
DESC: POWER CIRCUIT ; SUMMARY
SUJO: 4-170-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: RADIATION RESPONSE STUDY OF NEW RADIATION-HARDENED LOW POWER TTL
SERIES (U), 30 P., (U)

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copy: 1 id: 82674-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71SP-154
AUTH: RAYMOND J.P. ; POCOCK D.N.
CLSS: U
CONN: DASA 01 70 C 0093
CORP: NORTHROP CORP. LABS (HAWTHORNE CA)
DATE: 7107
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L5 X RAYS NEUTRONS
DESC: SIMULATION (FLASH X RAY/TRIGA REACTOR) ; SUMMARY
SUJO: 4-170-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: TRANSIENT IONIZING RADIATION EFFECTS IN MOS/LSI (U), 12 P., (U)

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copy: 1 id: 82675-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71SP-167
AUTH: SHEDD W. ; BUCHANAN B. ; DOLAN R.
CLSS: U
CORP: AIR FORCE CAMBRIDGE RESEARCH LABS (BEDFORD MASS)
DATE: 7107
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L5 PHOTOCURRENTS
DESC: SUMMARY
SUJO: 4-170-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: TRANSIENT RADIATION EFFECTS IN SILICON DIODES NEAR AND IN AVALANCHE
BREAKDOWN (U), 12 P., (U)

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IEEE71SP-167

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71SP-180
AUTH: LONG D.M.
CLSS: U
CONN: F 19628 69 C 0246
CORP: GENERAL ELECTRIC CO (PHILADELPHIA PA)
DATE: 7107
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L5 PHOTOCURRENTS
DESC: SUMMARY
SUJO: 4-170-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: JFET TRANSIENT RADIATION RESPONSE (U), 19 P., (U)

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INUM: IEEE71SP-200
AUTH: SROUR J.R. ; JOHNSON R.E.
CLSS: U
CORP: NORTHROP CORP. LABS. (HAWTHORNE CA)
DATE: 7107
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L5
DESC: SIMULATION (FLASH X RAY) ; SUMMARY
SUJO: 4-170-000
SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE
TITL: EFFECTS OF IONIZING RADIATION ON THIN-FILM SEMICONDUCTOR DEVICES
(U), 7 P., (U)

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE71SP-279

AUTH: RENKEN J.H.

CLSS: U

CORP: SANDIA LABS (ALBUQUERQUE NM)

DATE: 7107

DESC: SUMMARY THEORY

DESC: Nuclear RDT&E Research Program Descriptions fallout nuclear
radiation transport L5

SUJO: 4-140-000

SYMJ: SUMMARIES OF PAPERS, IEEE TRANSACTIONS ON NUCLEAR SCIENCE

TITL: APPLICATION OF ADJOINT TRANSPORT SOLUTIONS TO ANALYSIS OF RADIATION
SHIELDS (U), 295 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72

CLSS: U

CORP: INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS, INC. (NEW YORK,
NY)

DATE: 7212

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: THEORY EXPERIMENTAL

EFFT: TREE

EMPF: 391

SUJO: 3-221-000

TITL: IEEE TRANSACTIONS ON NUCLEAR SCIENCE; VOL. NS-19, NO. 6, ANNUAL
CONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS, JULY 24-27, 1972
(U), 440 P., (U)

TREE: 100

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copy: 1 id: 82682-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-011
AUTH: DROPKIN H. ; BERG N.J.
CLSS: U
CORP: HARRY DIAMOND LABS. (WASH., DC)
DATE: 7200
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
EFFT: TREE
SUJO: 3-213-000 ; 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: EFFECT OF IONIZING RADIATION ON GUNN DIODE AMPLIFIERS (U), 4 P., (U)
TREE: 310

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copy: 1 id: 82683-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-015
AUTH: WEINGART R.C. ; BARLETT R.H. ; LEE R.S. ; HOFER W.
CLSS: U
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA) ; KANSAS STATE UNIVERSITY
(MANHATTAN, KS)
DATE: 7200
DESC: Nuclear Weapon Effects materials ceramics optical L1 GLASS
DESC: Nuclear Weapon Effects materials plastics resins L1 EPOXY H FILM
MYLAR TEFLON POLYETHYLENE
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 CAPACITORS
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
EFFT: TREE
SUJO: 3-229-000 ; 3-241-000 ; 3-244-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: X-RAY-INDUCED PHOTOCONDUCTIVITY IN DIELECTRIC FILMS (U), 8 P., (U)
TREE: 370 ; 369

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IEEE72-015

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-023
AUTH: KING J.C. ; SANDER H.H.
CLSS: U

CORP: SANDIA LABS. (ALBUQUERQUE, NM)
DATE: 7200
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
EFFT: X-RAY
SUJO: 3-132-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: RAPID ANNEALING OF FREQUENCY CHANGE IN CRYSTAL RESONATORS FOLLOWING
PULSED X-IRRADIATION (U), 10 P., (U)
TREE: 367

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IEEE72-023

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-033
AUTH: JOHNSON W.C.
CLSS: U
CORP: PRINCETON UNIVERSITY (PRINCETON, NJ)
DATE: 7200
DESC: Radiation Transport electron L1
DESC: SUMMARY
SUJO: 9-680-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: ELECTRONIC TRANSPORT IN INSULATING FILMS (U), 8 P., (U)
TREE: 990 ; 385

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IEEE72-033

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copy: 1 id: 82686-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-041
AUTH: MANGAN D.L. ; SCRIVNER G.J.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM)
DATE: 7200
DESC: THEORY
DESC: Radiation Transport electron L1
EFFT: EMP
EMPF: 391
SUJO: 9-680-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: EMP RESPONSE OF A CAVITY--FIELD GENERATION WITHIN A LOSSY DIELECTRIC
CYLINDER EXCITED BY A RADIATION PULSE (U), 8 P., (U)

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-049

AUTH: YEE K.S. ; OAKLEY D.C. ; WOODRUFF J.P.

CLSS: U

CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA)

DATE: 7200

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

DESC: THEORY

EMPF: 319

SUJO: 3-231-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: DUAL-GRID CHARACTERISTIC METHOD FOR THE NUMERICAL INTEGRATION OF THE
THREE-WIRE TRANSMISSION LINE EQUATIONS (U), 8 P., (U)

TREE: 390

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IEEE72-049

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-057

AUTH: TASCA D.M. ; PEDEN J.C. ; MILETTA J.R.

CLSS: U

CONN: DAAK 02 71 C 0092

CORP: GENERAL ELECTRIC CO., SPACE DIV. (VALLEY FORGE, PA) ; HARRY DIAMOND
LABS. (WASH., DC)

DATE: 7200

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 DIODE

DESC: SIMULATION (POWER PULSE) ; EXPERIMENTAL

EFFT: EMP

EMPF: 450

SUJO: 3-221-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: NON-DESTRUCTIVE SCREENING FOR THERMAL SECOND BREAKDOWN (U), 11 P.,
(U)

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IEEE72-057

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copy: 1 id: 82689-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE72-068
AUTH: BROWN W.D.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM)
DATE: 7200
DESC: SIMULATION (CURRENT PULSE) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: EMP
EMPF: 341
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: SEMICONDUCTOR DEVICE DEGRADATION BY HIGH AMPLITUDE CURRENT PULSES
(U), 8 P., (U)

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IEEE72-068
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copy: 1 id: 82690-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE72-076
AUTH: MCMURRAY L.R. ; KLEINER C.T.
CLSS: U
CORP: NORTH AMERICAN ROCKWELL ELECTRONICS GROUP (ANAHEIM, CA)
DATE: 7200
DESC: THEORY
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTOR
EFFT: TREE
EMPF: 330
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: ADAPTATION OF THE P-N JUNCTION BURNOUT MODEL TO CIRCUIT ANALYSIS
CODES (U), 6 P., (U)
TREE: 250

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IEEE72-076
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copy: 1 id: 82691-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE72-082
AUTH: WILSON W.E. ; CHAFFIN R.J.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM)
DATE: 7200
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1 SAPPHIRE ALUMINA TEFLON SUBSTRATES
EFFT: TREE
SUJO: 3-132-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: RADIATION DAMAGE EFFECTS IN MICROWAVE DIELECTRIC SUBSTRATE MATERIALS
(U), 4 P., (U)
TREE: 200

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IEEE72-082

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-086
AUTH: POCOCK D.N. ; KREBS M.G.
CLSS: U
CCDE: SCEPTRE ; LOGIC
CORP: NORTHROP CORPORATE LABS. (HAWTHORNE, CA)
DATE: 7200
DESC: Nuclear Weapon Effects electronic piecparts integrated circuits L1
DESC: THEORY
SUJO: 3-222-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: TERMINAL MODELING AND PHOTOCOMPENSATION OF COMPLEX MICROCIRCUITS
(U), 8 P., (U)
TREE: 250

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IEEE72-086

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-094
AUTH: CHAO K.S. ; LIBERTY S.R. ; SEACAT R.H. ; CHIPMAN M.A.
CLSS: U
CONN: F 29601 71 C 0048
CORP: TEXAS TECH UNIVERSITY (LUBBOCK, TX) ; AIR FORCE WEAPONS LAB.
(KIRTLAND AFB, NM)
DATE: 7200

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: THEORY
EFFT: TREE
SUJO: 3-222-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: MODELING IC'S IN AN IONIZING RADIATION ENVIRONMENT WITH A TIME
VARYING WIENER MODEL (U), 2 P., (U)

TREE: 250

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IEEE72-094

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-096

AUTH: GREENBAUM J.R. ; HOREN R. ; ANDREWS J.L. ; PEDEN J.C.

CLSS: U

CCDE: SCEPTRE

CORP: GENERAL ELECTRIC CO. (SYRACUSE, NY) ; AIR FORCE WEAPONS LAB.
(KIRTLAND AFB, NM) ; GENERAL ELECTRIC CO. (PHILADELPHIA, PA)

DATE: 7200

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

DESC: SIMULATION (FLASH X-RAY REACTOR) ; EXPERIMENTAL

EFFT: TREE

SUJO: 3-222-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: RADIATION MODELS FOR DIGITAL INTEGRATED CIRCUITS (U), 7 P., (U)

TREE: 250

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-103

AUTH: RAYMOND J.P. ; KREBS M.G.

CLSS: U

CCDE: NET-2

CONN: DAAG 39 72 C 0065

CORP: NORTHROP CORPORATE LABS. (HAWTHORNE, CA)

DATE: 7200

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: THEORY

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

EFFT: TREE

SUJO: 3-221-000 ; 3-222-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: LUMPED MODEL ANALYSIS OF SEMICONDUCTOR DEVICES USING THE NET-2
CIRCUIT/SYSTEM ANALYSIS PROGRAM (U), 5 P., (U)

TREE: 250

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IEEE72-103

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-108

AUTH: YOUNG L.S. ; VASSALLO F.A. ; KLEINER C.T.

CLSS: U

CCDE: TRAC

CORP: NORTH AMERICAN ROCKWELL ELECTRONICS GROUP (ANAHEIM, CA)

DATE: 7200

DESC: THEORY

DESC: Nuclear Weapon Effects electronic pieceparts L1

EFFT: TREE

SUJO: 3-220-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: ANALYTICAL TECHNIQUES FOR THE DETERMINATION OF EQUIPMENT PROBABILITY
OF SURVIVAL TO RADIATION STRESS (U), 7 P., (U)

TREE: 250

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-115

AUTH: BLICE R.D. ; MUNARIN J.A. ; PEASE R.L.

CLSS: U

CORP: NAVAL AMMUNITION DEPOT (CRANE, IN)

DATE: 7200

DESC: THEORY

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

EFFT: TREE

SUJO: 3-221-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: BIPOLAR TRANSISTOR SCREENING METHODS FOR NEUTRON HARDNESS ASSURANCE
(U), 6 P.,(U)

TREE: 649

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IEEE72-115

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-121

AUTH: SAWYER D.E.

CLSS: U

CONN: F 29601 72 C 0002

CORP: NATIONAL BUREAU OF STANDARDS, INSTITUTE FOR APPLIED TECHNOLOGY
(WASH., DC)

DATE: 7200

DESC: THEORY

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

EFFT: TREE

SUJO: 3-221-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: PREVALENT ERROR SOURCES IN TRANSISTOR DELAY-TIME MEASUREMENTS (U), 4
P., (U)

TREE: 250

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IEEE72-121

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copy: 1 id: 82699-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-125

AUTH: SMITH D.M. ; HAHN L.A.

CLSS: U

CORP: TEXAS INSTRUMENTS, INC. (DALLAS, TX)

DATE: 7200

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: THEORY

EFFT: NEUTRON

SUJO: 3-221-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: NEUTRON HARDNESS ASSURANCE OF BIPOLAR TRANSISTORS BY COLLECTOR
RESISTANCE DETERMINATION (U), 4 P., (U)

TREE: 649

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IEEE72-125

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copy: 1 id: 82700-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE72-129
AUTH: HEATON E.C.
CLSS: U
CORP: AUTONETICS (ANAHEIM, CA)
DATE: 7200
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

DESC: THEORY
SUJO: 4-170-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: HARDNESS ASSURANCE THROUGH SUPPLIER DATA MONITORING (U), 6 P., (U)
TREE: 610

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IEEE72-129

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copy: 1 id: 82701-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE72-135
AUTH: APODACA L. ; HUGHES G.E.
CLSS: U
CORP: AUTONETICS (ANAHEIM, CA)
DATE: 7200
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: SIMULATION (REACTOR LINAC CO 60) ; EXPERIMENTAL
EFFT: TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: AGING EFFECTS ON ELECTRICAL AND RADIATION CHARACTERISTICS ON
DISCRETE SEMICONDUCTORS (U), 6 P., (U)
TREE: 310

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IEEE72-135

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copy: 1 id: 82702-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE72-160
AUTH: FREDERICKSON A.R. ; BURKE E.A.
CLSS: U

CCDE: ELTRAN
CORP: AIR FORCE CAMBRIDGE RESEARCH LABS. (BEDFORD, MA)
DATE: 7200
DESC: Nuclear Weapon Effects materials metals alloys L1 AL CU TA
DESC: SIMULATION (DYNAMITRON ACCELERATOR) ; EXPERIMENTAL
EFFT: BETA
EMPF: 391
SUJO: 3-243-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: TOTAL ELECTRON BACKSCATTER AND BACKEMISSION YIELDS FROM METALS
BOMBARDED AT SEVERAL ANGLES BY 0.4 TO 1.4 MEV ELECTRONS (U), 7 P.,
(U)

TREE: 990

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IEEE72-160

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copy: 1 id: 82703-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-167

AUTH: BRADFORD J.N.

CLSS: U

CORP: AIR FORCE CAMBRIDGE RESEARCH LABS. (BEDFORD, MA)

DATE: 7200

DESC: Nuclear Weapon Effects materials metals alloys L1 TA MO CA AL

DESC: SIMULATION (X-RAY MACHINE) ; EXPERIMENTAL

EFFT: X-RAY

EMPF: 391

SUJO: 3-243-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: ABSOLUTE YIELDS OF X-RAY INDUCED PHOTOEMISSION FROM METALS (U), 8
P., (U)

TREE: 980

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IEEE72-167

.endblock

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copy: 1 id: 82704-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-175

AUTH: CHAPPELL S.E. ; HUMPHREYS J.C.

CLSS: U

CORP: NATIONAL BUREAU OF STANDARDS (WASH., DC)

DATE: 7200

DESC: SIMULATION (CO 60 E BEAM) ; EXPERIMENTAL

DESC: test instruments nuclear radiation dosimeters radiacs L1

SUJO: 4-346-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: DOSE-RATE RESPONSE OF A DYE-POLYCHLOROSTYRENE FILM DOSIMETER (U), 6
P., (U)

TREE: 655

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INUM: IEEE72-181

AUTH: VAN LINT V.A.J. ; LEADON R.E. ; COLWELL J.F.

CLSS: U

CONN: DAAG 39 68 C 0060

CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA)

DATE: 7200

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic piecparts materials basic
mechanisms L1

SUJO: 3-220-200

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: ENERGY DEPENDENCE OF DISPLACEMENT EFFECTS IN SEMICONDUCTORS (U), 5
P., (U)

TREE: 200

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INUM: IEEE72-186

AUTH: POWELL J.E.

CLSS: U

CORP: SANDIA LABS. (ALBUQUERQUE, NM)

DATE: 7200

DESC: EXPERIMENTAL

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1

SUJO: 4-241-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: HIGH RESOLUTION NEUTRON SPECTRUM MEASUREMENTS IN THE SANDIA PULSED
REACTOR-II FACILITY (U), 8 P., (U)

TREE: 642

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INUM: IEEE72-194

AUTH: MCKENZIE J.M. ; WITT L.J.

CLSS: U

CORP: SANDIA LABS. (ALBUQUERQUE, NM)

DATE: 7200

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1

EFFT: NEUTRON

SUJO: 3-221-000 ; 4-241-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: CONVERSION OF NEUTRON SPECTRA TO THEIR 14-MEV EQUIVALENCES (U), 6
P., (U)

TREE: 642 ; 652

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INUM: IEEE72-200

AUTH: GREEN M.L. ; THATCHER R.K.

CLSS: U

CCDE: SAND II

CORP: BATTELLE COLUMBUS LABS. (COLUMBUS, OH)

DATE: 7200

DESC: Simulation Facilities Techniques nuclear radiation reactors isotopic
sources L1

DESC: SIMULATION (CO 60 REACTOR NEUTRON GENERATOR) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 TRANSISTOR

EFFT: NEUTRON ; GAMMA

SUJO: 3-221-000 ; 4-241-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: PREPARATION OF A STANDARD TECHNIQUE FOR DETERMINATION OF NEUTRON
EQUIVALENCE FOR BULK DAMAGE IN SILICON (U), 9 P., (U)

TREE: 200 ; 310 ; 620

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INUM: IEEE72-209
AUTH: KALMA A.H. ; BERGER R.A.
CLSS: U
CONN: DAAG 39 68 C 0060 ; F 19628 70 C 0311
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO, CA)
DATE: 7200
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1
EFFT: BETA
SUJO: 3-220-200
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: ELECTRICAL PROPERTIES OF ELECTRON-IRRADIATED GAAS (U), 6 P., (U)
TREE: 200

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INUM: IEEE72-215
AUTH: NEAMEN D.A. ; GRANNEMANN W.W.
CLSS: U
CORP: UNIVERSITY OF NEW MEXICO (ALBUQUERQUE, NM)
DATE: 7200
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION (REACTOR) ; EXPERIMENTAL
EFFT: NETURON
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: FAST NEUTRON EFFECTS ON GAASP SCHOTTKY BARRIER DIODES AND HALL
EFFECT DEVICES (U), 5 P., (U)
TREE: 310

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INUM: IEEE72-220
AUTH: BRELOT A.
CLSS: U
DATE: 7200
DESC: SIMULATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SI
EFFT: BETA
SUJO: 3-220-200
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: TIN AS A VACANCY TRAP IN SILICON AT ROOM TEMPERATURE (U), 4 P., (U)
TREE: 200

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INUM: IEEE72-224
AUTH: CLELAND J.W.
CLSS: U
CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN)
DATE: 7200
DESC: SIMULATION (CO 60) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 GE
EFFT: GAMMA
SUJO: 3-220-200
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: RADIATION AND ANNEALING STUDIES ON OXYGEN-DOPED AND LITHIUM DIFFUSED
GERMANIUM(U), 6 P., (U)
TREE: 200

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INUM: IEEE72-237
AUTH: LOCKER D.R. ; MEESE J.M.
CLSS: U
CONN: F 33615 71 C 1877
CORP: AIR FORCE AEROSPACE RESEARCH LABS. (WRIGHT-PATTERSON AFB, OH) ;
UNIVERSITY OF DAYTON (DAYTON, OH)
DATE: 7200
DESC: Nuclear Weapon Effects materials coatings laminates L1 ZN O

DESC: SIMULATION (VAN DE GRAAFF) ; EXPERIMENTAL
EFFT: BETA
SUJO: 3-245-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: DISPLACEMENT THRESHOLDS IN ZNO (U), 6 P., (U)
TREE: 200

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-243
AUTH: DUNNING K.L. ; HUGHES H.L.
CLSS: U
CORP: NAVAL RESEARCH LAB. (WASH., DC)
DATE: 7200
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1 SI

DESC: SIMULATION (VAN DE GRAAFF) ; EXPERIMENTAL
SUJO: 3-220-200
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: IMPURITY DEPTH PROFILES BY MICROANALYSIS TECHNIQUES (U), 6 P., (U)
TREE: 200

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-249
AUTH: MCCAUGHAN D.V. ; MURPHY V.T.
CLSS: U
CORP: BELL TELEPHONE LABS., INC. (MURRAY HILL, NJ)
DATE: 7200
DESC: EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

EFFT: TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: LOW ENERGY ION BOMBARDMENT EFFECTS IN SI02 (U), 7 P., (U)
TREE: 200

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-256
AUTH: HUGHES H.L. ; BAXTER R.D. ; PHILLIPS B.
CLSS: U
CORP: NAVAL RESEARCH LAB. (WASH., DC) ; BATTELLE MEMORIAL INSTITUTE
(COLUMBUS, OH)
DATE: 7200
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1
DESC: SIMULATION (CO 60) ; EXPERIMENTAL
EFFT: GAMMA
SUJO: 3-220-200
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: DEPENDENCE OF MOS DEVICE RADIATION-SENSITIVITY ON OXIDE IMPURITIES
(U), 8 P., (U)
TREE: 200 ; 325

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INUM: IEEE72-264
AUTH: KING E.E. ; NELSON G.P. ; HUGHES H.L.
CLSS: U
CORP: NAVAL RESEARCH LAB. (WASH., DC)
DATE: 7200
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
SUJO: 3-222-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: EFFECTS OF IONIZING RADIATION ON VARIOUS CMOS INTEGRATED CIRCUIT
STRUCTURES (U), 7 P., (U)
TREE: 325

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INUM: IEEE72-271
AUTH: PEEL J.L. ; KINOSHITA G.
CLSS: U
CORP: NORTH AMERICAN ROCKWELL (ANAHEIM, CA)
DATE: 7200
DESC: SIMULATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors
vacuum tubes dielectrics relays switches L1 MOS CAPACITORS
EFFT: TREE
SUJO: 3-222-000 ; 3-229-000 ; 4-170-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: RADIATION-HARDENED COMPLEMENTARY MOS USING SiO2 GATE INSULATORS (U),
4 P., (U)
TREE: 430 ; 325

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INUM: IEEE72-275
AUTH: SCHLESIER K.M. ; NORRIS P.E.
CLSS: U
CORP: RCA LABS. (PRINCETON, NJ)
DATE: 7200
DESC: SIMULATION (CO 60 E-BEAM) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

EFFT: TREE
SUJO: 3-222-000 ; 4-170-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: CMOS HARDENING TECHNIQUES (U), 7 P., (U)
TREE: 430 ; 325

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INUM: IEEE72-282
AUTH: SIMONS M. ; HUGHES H.L.
CLSS: U

CONN: N 00014 71 C 0359
CORP: RESEARCH TRIANGLE INSTITUTE (RESEARCH TRIANGLE PARK, NC) ; NAVAL
RESEARCH LAB.(WASH., DC)
DATE: 7200
DESC: Nuclear Weapon Effects electronic pieceparts materials basic
mechanisms L1
DESC: SIMULATION (FLASH X-RAY) ; EXPERIMENTAL
EFFT: TREE
SUJO: 3-220-200
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: DETERMINING THE ENERGY DISTRIBUTION OF PULSE-RADIATION-INDUCED
CHARGE IN MOS STRUCTURES FROM RAPID ANNEALING MEASUREMENTS (U), 9
P., (U)
TREE: 200 ; 325

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-291
AUTH: WEGENER H.A.R. ; DOIG M.B. ; MARRAFFINO P. ; ROBINSON B.
CLSS: U
CONN: F 33615 70 C 1665
CORP: SPERRY RAND RESEARCH CENTER (SUDBURY, MA) ; SPERRY GYROSCOPE DIV.
(GREAT NECK,NY)
DATE: 7200
DESC: SIMULATION (CO 60 NEUTRON GENERATOR LINAC) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 MNOS TRANSISTORS
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
EFFT: TREE
SUJO: 3-221-000 ; 3-222-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: RADIATION RESISTANT MNOS MEMORIES (U), 8 P., (U)
TREE: 343

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-299
AUTH: AUBUCHON K.G. ; BEREISA J.
CLSS: U
CORP: HUGHES AIRCRAFT CO. (NEWPORT BEACH, CA) ; KIRIK (SACRAMENTO, CA)

DATE: 7200
DESC: SIMULATION (REACTOR CO 60) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
EFFT: NEUTRON ; GAMMA
SUJO: 3-222-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: PERFORMANCE OF HARDENED P-MOS DEVICES IN SEVERE NEUTRON ENVIRONMENTS
(U), 6 P., (U)
TREE: 325

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INUM: IEEE72-305
AUTH: SIVO L.L.
CLSS: U
CONN: N 00014 72 C 0026
CORP: BOEING CO. (SEATTLE, WA)
DATE: 7200
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION ; EXPERIMENTAL
EFFT: TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: RELATIVE ROLES OF CHARGE ACCUMULATION AND INTERFACE STATES IN
SURFACE DEGRADATION (NPN PLANAR TRANSISTORS) (U), 8 P., (U)
TREE: 310

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-313
AUTH: SIVO L.L. ; HUGHES H.L. ; KING E.E.
CLSS: U
CORP: BOEING CO. (SEATTLE, WA) ; NAVAL RESEARCH LAB. (WASH., DC)
DATE: 7200
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (CO 60) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: Nuclear Weapon Effects electronic pieceparts resistors capacitors

vacuum tubes dielectrics relays switches L1 MOS CAPACITORS

SUJO: 3-221-000 ; 3-222-000 ; 3-229-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: INVESTIGATION OF RADIATION-INDUCED INTERFACE STATES UTILIZING
GATED-BIPOLAR AND MOS STRUCTURES (U), 7 P., (U)

TREE: 320 ; 325

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INUM: IEEE72-320

AUTH: COPPAGE F.N. ; GRAHAM E.D. JR.

CLSS: U

CORP: SANDIA LABS. (ALBUQUERQUE, NM)

DATE: 7200

DESC: SIMULATION (REACTOR GAMMA FACILITY) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

EFFT: TREE

SUJO: 3-221-000 ; 3-222-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: DEVICE DEGRADATION FROM THE EFFECTS OF NUCLEAR RADIATION ON
PASSIVATION MATERIALS (U), 5 P., (U)

TREE: 310

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INUM: IEEE72-325

AUTH: CHAFFIN R.J.

CLSS: U

CORP: SANDIA LABS. (ALBUQUERQUE, NM)

DATE: 7200

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

DESC: SIMULATION (REACTOR FLASH X-RAY) ; EXPERIMENTAL

EFFT: TREE

SUJO: 3-222-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: PERMANENT AND TRANSIENT RADIATION EFFECTS IN BARITT MICROWAVE
OSCILLATORS (U),3 P., (U)

TREE: 367

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INUM: IEEE72-328

AUTH: BORREGO J.M. ; GUTMANN R.J. ; COTTRELL P.E. ; GHANDI S.K.

CLSS: U

CONN: F 19628 72 C 0112

CORP: RENSSELAER POLYTECHNIC INSTITUTE (TROY, NY)

DATE: 7200

DESC: SIMULATION (LINAC) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1

EFFT: TREE

SUJO: 3-221-000 ; 3-222-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: TRANSIENT IONIZING RADIATION EFFECTS ON IMPATT DIODE OSCILLATORS
(U), 7 P., (U)

TREE: 367

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-335

AUTH: GRAHAM E.D. JR. ; CHAFFIN R.J. ; GWYN C.W.

CLSS: U

CORP: SANDIA LABS. (ALBUQUERQUE, NM)

DATE: 7200

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes

silicon-controlled rectifiers L1

DESC: SIMULATION (REACTOR CO 60) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio

microwave systems L1

EFFT: TREE

SUJO: 3-132-220 ; 3-221-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: RADIATION EFFECTS IN MICROWAVE BIPOLAR TRANSISTORS (U), 5 P., (U)

TREE: 310

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created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-340
AUTH: WEBB J.G. ; CHAFFIN R.J.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM)
DATE: 7200
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION (REACTOR)
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1
DESC: Nuclear Weapon Effects electronic subsystems recorders amplifiers L1
EFFT: NETURON
SUJO: 3-132-220 ; 3-213-000 ; 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: NEUTRON IRRADIATION EFFECTS ON MICROWAVE TRANSISTOR AMPLIFIERS (U),
4 P., (U)
TREE: 369

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-344
AUTH: CLARK L.E. ; GEORGE W.L.
CLSS: U
CORP: MOTOROLA SEMICONDUCTOR PRODUCTS DIV. (PHOENIX, AZ)
DATE: 7200
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION ; EXPERIMENTAL
EFFT: TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: CURRENT CROWDING IN HARDENED POWER TRANSISTORS (U), 3 P., (U)
TREE: 310

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IEEE72-344

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copy: 1 id: 82731-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
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INUM: IEEE72-347
AUTH: OLDHAM W.C.
CLSS: U
CORP: UNIVERSITY OF CALIFORNIA (BERKELEY, CA)
DATE: 7200
DESC: Nuclear Weapon Effects electronic pieceparts L1
DESC: SURVEY
EFFT: TREE
SUJO: 3-220-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: RADIATION PRODUCED TRAPPING EFFECTS IN DEVICES (U), 8 P., (U)
TREE: 200

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IEEE72-347

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE72-355
AUTH: GWYN C.W.
CLSS: U
CORP: SANDIA LABS. (ALBUQUERQUE, NM)
DATE: 7200
DESC: SIMULATION ; THEORY EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
EFFT: TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: CALCULATED SMALL SIGNAL CHARACTERISTICS FOR IRRADIATED PN JUNCTIONS
(U), 7 P.,(U)
TREE: 310 ; 200

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IEEE72-355

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE72-362
AUTH: SROUR J.R. ; CURTIS O.L.
CLSS: U
CORP: NORTHROP CORPORATE LABS. (HAWTHORNE, CA)
DATE: 7200

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 BIPOLAR TRANSISTORS
DESC: SIMULATION (D P F REACTOR) ; THEORY
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1
EFFT: NETURON
SUJO: 3-221-000 ; 3-223-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: SHORT-TERM ANNEALING IN SILICON DEVICES FOLLOWING PULSED 14-MEV
NEUTRON IRRADIATION (U), 9 P., (U)
TREE: 310
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IEEE72-362
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copy: 1 id: 82734-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE72-371
AUTH: FAITH T.J.
CLSS: U
CONN: NAS 7 100
CORP: RCA ASTRO-ELECTRONICS DIV. (PRINCETON, NJ)
DATE: 7200
DESC: SIMULATION (VAN DE GRAAFF) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1
EFFT: BETA
SUJO: 3-223-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: RADIATION CHARACTERISTICS AND MISSION CONSIDERATIONS IN
LITHIUM-CONTAINING SOLAR CELLS (U), 4 P., (U)
TREE: 362
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IEEE72-371
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copy: 1 id: 82735-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: IEEE72-375
AUTH: OLSEN L.C.
CLSS: U
CORP: MCDONNELL DOUGLAS ASTRONAUTICS CO. (RICHLAND, WA)
DATE: 7200
DESC: SIMULATION (PM-147 KR-85) ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
EFFT: BETA
SUJO: 3-222-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.

6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: BETA IRRADIATION OF SILICON JUNCTION DEVICES--EFFECTS ON DIFFUSION
LENGTH (U),7 P., (U)

TREE: 320

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IEEE72-375

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copy: 1 id: 82736-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-382

AUTH: BARNES C.E.

CLSS: U

CORP: SANDIA LABS. (ALBUQUERQUE, NM)

DATE: 7200

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1

DESC: SIMULATION (REACTOR) ; EXPERIMENTAL

EFFT: NEUTRON

SUJO: 3-221-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.

6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: NEUTRON DAMAGE IN GAAS LASER DIODES--AT AND ABOVE LASER THRESHOLD
(U), 4 P., (U)

TREE: 310

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IEEE72-382

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copy: 1 id: 82737-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-386

AUTH: EPSTEIN A.S. ; SHARE S. ; POLIMADEI R.A. ; HERZOG A.H.

CLSS: U

CORP: HARRY DIAMOND LABS. (WASH., DC) ; MONSANTO CO. (ST. LOUIS, MS)

DATE: 7200

DESC: SIMULATION (CO 60) ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1 LED

EFFT: GAMMA

SUJO: 3-221-000

SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.

6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS

TITL: GAMMA IRRADIATION AND ANNEALING EFFECTS IN NITROGEN-DOPED GAAS
1-X-PX GREEN AND YELLOW LIGHT-EMITTING DIODES (U), 5 P., (U)

TREE: 310

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IEEE72-386

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copy: 1 id: 82738-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-391
AUTH: EPSTEIN A.S. ; TRIMMER P.A.
CLSS: U
CORP: HARRY DIAMOND LABS. (WASH., DC)
DATE: 7200
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1
DESC: SIMULATION (CO 60 REACTOR) ; EXPERIMENTAL
EFFT: TREE
SUJO: 3-133-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: RADIATION DAMAGE AND ANNEALING EFFECTS IN PHOTON COUPLED ISOLATORS
(U), 9 P., (U)
TREE: 361

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IEEE72-391

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copy: 1 id: 82739-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-400
AUTH: NEAMEN D. ; SHEDD W. ; BUCHANAN B.
CLSS: U
CORP: AIR FORCE CAMBRIDGE RESEARCH LABS. (BEDFORD, MA)
DATE: 7200
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
DESC: SIMULATION (LINAC) ; EXPERIMENTAL
EFFT: TREE
SUJO: 3-222-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: EFFECTS OF IONIZING RADIATION ON DIELECTRICALLY ISOLATED JUNCTION
FIELD EFFECTTRANSISTORS (U), 6 P., (U)
TREE: 310

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IEEE72-400

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copy: 1 id: 82740-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-406
AUTH: GAILLARD R. ; GENRE R.
CLSS: U
CORP: INSTITUT DE PHYSIQUE NUCLEAIRE (FRANCE)
DATE: 7200
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: SIMULATION (X-RAY GENERATOR EUPHROSINE FLASH X-RAY VAN DE GRAAFF
LASER) ; EXPERIMENTAL
EFFT: TREE
SUJO: 3-221-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: ANOMALOUS PHOTOCURRENTS IN LOW-POWER EPITAXIAL TRANSISTORS (U), 8
P., (U)
TREE: 310

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IEEE72-406

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copy: 1 id: 82741-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: IEEE72-414
AUTH: HOLMES R.R. ; WILSON D.K. ; BLAIR R.R.
CLSS: U
CORP: BELL LABS. (WHIPPANY, NJ)
DATE: 7200
DESC: Nuclear Weapon Effects Communications Systems C4 hardware optical
devices sensors IR detectors L1 OPTICAL TARGET OF SI VIDICON
DESC: SIMULATION ; EXPERIMENTAL
EFFT: NEUTRON
SUJO: 3-133-000
SYMJ: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS
TITL: NEUTRON DAMAGE FAILURE RATES FOR LARGE POPULATIONS (U), 4 P., (U)
TREE: 361

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IEEE72-414

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copy: 1 id: 82742-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MAD515480
ADNO: AD 515480
CLSS: C1
CORP: DEFENSE DOCUMENTATION CENTER (ALEXANDRIA VA)
DATE: 7105
REPN: DDC TAS 71 4 2

TEMP: 79511
TITL: RADIATION INJURIES AND SICKNESS, VOL. 2 (U), 177 P., (C)

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MAD515480

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copy: 1 id: 85747-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MAD515920
ADNO: AD 515920
CLSS: C 1
CORP: DEFENSE DOCUMENTATION CENTER (ALEXANDRIA VA)
DATE: 7106
REPN: DDC TAS 71 22 11
TEMP: 79654
TITL: RADIATION DAMAGE, VOL. 2 (U), 271 P., (C)

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MAD515920

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copy: 1 id: 85760-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MAD517663
ADNO: 517663
AUTH: CHRISTIANSON C.
CLSS: S 3
CORP: NAVAL ORDNANCE LAB. (WHITE OAK, MD.)
DATE: 7108
REPN: NOLTR 71 135
TEMP: A0081
TITL: EFFECTS OF THERMAL RADIATION ON RADOME MATERIALS (U), 63 P., (S)

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MAD517663

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copy: 1 id: 85787-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MAD525320
ADNO: 525320
AUTH: CHAMBERLAIN J.W.
CLSS: C
CONN: DAHC 15 67 C 0011
CORP: INSTITUTE FOR DEFENSE ANALYSES, JASON DIV. (ARLINGTON, VA.)
DATE: 7208
REPN: IDA/HA 72 14449

TEMP: A3818
TITL: ON THE INFRARED RADIATION FOLLOWING A NUCLEAR BURST (U), CA. 10 P.,
(S)

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MAD525320

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copy: 1 id: 85898-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MAD728751
ADNO: AD 728751
AUTH: WILSON D.M.
CLSS: U
CORP: NAVAL ORDNANCE LAB (WHITE OAK MD)
DATE: 7106
REPN: NOLTR 71 61
TITL: DISTRIBUTION AND HISTORY OF TEMPERATURE IN CIRCULAR CYLINDERS
EXPOSED TO THE THERMAL RADIATION PULSE OF A NUCLEAR DETONATION (U),
142 P., (U)

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MAD728751

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copy: 1 id: 86277-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MAD732359
ADNO: 732359
AUTH: FERRITTO J.M.
CLSS: U
CORP: NAVAL CIVIL ENGINEERING LAB. (PORT HUENEME, CA.)
DATE: 7109
REPN: NCEL TR 736
TITL: DESIGN PROCEDURES FOR SHELTER ENTRANCE STRUCTURES TO RESIST BLAST
OVERPRESSURE AND RADIATION EFFECTS (U), 161 P., (U)

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MAD732359

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copy: 1 id: 86306-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MAD732360
ADNO: 732360
AUTH: FERRITTO J.M.
CLSS: U
CORP: NAVAL CIVIL ENGINEERING LAB. (PORT HUENEME, CA.)

DATE: 7109
REPN: NCEL TR 737
TITL: COS-OPTIMIZATION STUDY OF SHELTER ENTRANCE STRUCTURES TO RESIST
BLAST OVERPRESSURE AND RADIATION EFFECTS (U), 36 P., (U)

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MAD732360

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MAD737125
ADNO: 737125
AUTH: LAMBERT D.G. ; FLINN E.A. ; ARCHAMBEAU C.B.
CLSS: U
CONN: F 33657 72 C 0009
CORP: TELEDYNE GEOTECH (ALEXANDRIA, VA.)
DATE: 7110
REPN: SDL 284
TITL: COMPARATIVE STUDY OF THE ELASTIC WAVE RADIATION FROM EARTHQUAKES AND
UNDERGROUND EXPLOSIONS (U), 100 P., (U)

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MAD737125

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copy: 1 id: 86339-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MAD889475
ADNO: 889475
AUTH: PATTMAN J.D.R.
CLSS: U
CORP: DEFENCE RESEARCH ESTABLISHMENT (OTTOWA, CANADA)
DATE: 7108
LA: CANADA
REPN: DREO 642
TITL: OPERATION DIAL PACK 1970 CANADIAN PROJECT A7, THERMAL RADIATION
MEASUREMENTS (OPERATION DIAL PACK 1970 PROJECT CANADIEN A7, LES
MESURES DE RAYONNEMENT THERMIQUE), (U), 33 P., (U)

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MAD889475

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copy: 1 id: 86687-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MAO34478
CLSS: U

CONN: DASA 70 C 0070
CORP: NORTH AMERICAN ROCKWELL CORP., ELECTRONICS GROUP (ANAHEIM, CA.)
DATE: 7201
REPN: C72 139/501
TITL: SYSTEM EVALUATION CODE UNDER RADIATION ENVIRONMENT (SECURE) (U), CA.
300 P., (U)

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MAO34478

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copy: 1 id: 87263-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MCEAR4281
AUTH: COMBET M. ; GERARD R.
CLSS: U
CORP: ATOMIC ENERGY COMMISSION (FRANCE)
DATE: 7201
LA: FRANCE, NOT TRANSLATED
REPN: CEA R 4281
TITL: STUDY OF THE RADIOLOGICAL RISKS ASSOCIATED WITH THE DISTRIBUTION OF
CONTAMINATED GAS (U), 20 P., (U)

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MCEAR4281

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MCONF71051
AUTH: WARNER R.K.
CLSS: U
CORP: AUSTRALIAN ATOMIC ENERGY COMMISSION
DATE: 7100
LA: AUSTRALIA
REPN: CONF 710511 4
TITL: PEACEFUL USES OF NUCLEAR EXPLOSIVES, NUCLEAR DESALINATION,
RADIOISOTOPES AND RADIATION USES (U), 23 P., (U)

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MCONF71051

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copy: 1 id: 87366-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MCONF7206149
AUTH: BARTON C.J. ; MOORE R.E. ; HANNA S.R.
CLSS: U

CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN.)
DATE: 7200
REPN: CONF 620614 9
TITL: RADIATION DOSES FROM HYPOTHETICAL EXPOSURES TO RULISON GAS (U), 48
P., (U)

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MCONF7206149

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copy: 1 id: 87367-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MJPRS53498
AUTH: KUKHTEVICH V.I. ; GORYACHEV I.V. ; TRYKOV L.A.
CLSS: U
CORP: JOINT PUBLICATIONS RESEARCH SERVICE (WASHINGTON DC)
DATE: 7107
REPN: JPRS 53498
TITL: PROTECTION FROM PENETRATING RADIATION OF A NUCLEAR EXPLOSION (U),
218 P., (U)

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MJPRS53498

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copy: 1 id: 87537-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MNERCLV5392
AUTH: FORT C.W. ; WRUBLE D.T.
CLSS: U
CORP: NATIONAL ENVIRONMENTAL RESEARCH CENTER (LAS VEGAS, NV.)
DATE: 7209
REPN: NERC LV 539 2
TITL: OFF-SITE RADIOLOGICAL SAFETY FOR THE CANNIKIN EVENT, NOVEMBER 6,
1971 (U), 28 P., (U)

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MNERCLV5392

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copy: 1 id: 87687-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MNERCLV53914
AUTH: PAYNE D.W. ; GROSSMAN R.F.
CLSS: U
CORP: NATIONAL ENVIRONMENTAL RESEARCH CENTER (LAS VEGAS, NV.)
DATE: 7211
REPN: NERC LV 539 14

TITL: OFF-SITE RADIOLOGICAL SAFETY PROGRAM FOR PROJECT RULISON--RE-ENTRY
PORTION OF PHASE III (U), 263 P., (U)

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MNERCLV53914

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copy: 1 id: 87686-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MORNLTM3601

AUTH: BARTON C.J. ; MOORE R.E. ; HANNA S.R.

CLSS: U

CONN: W 7405 ENG 26

CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN)

DATE: 7110

REPN: ORNL TM 3601

TITL: RADIOLOGICAL SAFETY PEACEFUL USES OF NUCLEAR EXPLOSIVES-HYPOTHETICAL
EXPOSURES TO FULISON GAS; QUARTERLY PROGRESS REPORT (U), 38 P., (U)

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MORNLTM3601

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copy: 1 id: 87880-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MORNLTM3755

AUTH: MOORE R.E. ; BARTON C.J.

CLSS: U

CONN: W 7405 ENG 26

CORP: OAK RIDGE NATIONAL LAB. (OAK RIDGE, TN)

DATE: 7206

REPN: ORNL TM 3755

TITL: PROGRESS REPORT ON RADIOLOGICAL SAFETY OF PEACEFUL USES OF NUCLEAR
EXPLOSIVES-PRELIMINARY EQUATIONS AND COMPUTER TECHNIQUES FOR
ESTIMATING AND CONTROLLING TRITIUM DOSES FROM NUCLEARLY STIMULATED
NATURAL GAS (U), CA. 50 P., (U)

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MORNLTM3755

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copy: 1 id: 87881-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MSCRR71020

AUTH: SKOGLUND V.J. ; WATKINS C.B. JR.

CLSS: U

CORP: NEW MEXICO UNIVERSITY (ALBUQUERQUE NM)

DATE: 7105

REPN: SC RR 710203
TITL: NUMERICAL SOLUTIONS OF NONEQUILIBRIUM REFLECTED SHOCK WAVES IN AIR
WITH RADIATION (U), 110 P., (U)

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MSCRR71020

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copy: 1 id: 88130-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MSWRHL97R

CLSS: U

CORP: SOUTHWESTERN RADIOLOGICAL HEALTH LAB (LAS VEGAS NEV)

DATE: 7102

REPN: SWRHL 97 R

TITL: OFF-SITE SURVEILLANCE ACTIVITIES OF THE SOUTHWESTERN RADIOLOGICAL
HEALTH LABORATORY FROM JANUARY THROUGH JUNE 1969 (U), 41 P., (U)

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MSWRHL97R

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copy: 1 id: 88164-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MSWRHL98R

CLSS: U

CORP: PUBLIC HEALTH SERVICE, SOUTHWESTERN RADIOLOGICAL HEALTH LAB (LAS
VEGAS NEV)

DATE: 7102

REPN: SWRHL 98 R

TITL: OFF-SITE SURVEILLANCE ACTIVITIES OF THE SOUTHWESTERN RADIOLOGICAL
HEALTH LABORATORY FROM JULY-DECEMBER 1969 (U), 67 P., (U)

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copy: 1 id: 88165-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MTID25650

AUTH: SCHULTZ V. ; WHICKER F.W.

CLSS: U

CONN: AT (45 1) 2221

CORP: WASHINGTON STATE UNIVERSITY, DEPT. OF ZOOLOGY (PULLMAN, WASH)

DATE: 7100

REPN: TID 25650

TITL: SELECTED BIBLIOGRAPHY OF TERRESTRIAL FRESHWATER AND MARINE RADIATION
ECOLOGY (U), 185 P., (U)

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MTID25650

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copy: 1 id: 88170-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCID15832

AUTH: NISHIMURA K. ; SCHNEIDER S. ; SPITZER R.

CLSS: U

CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)

DATE: 7104

REPN: UCID 15832

TITL: NEW APPROACH TO CALCULATING EMP. I TRANSFORM METHOD BY COMPUTER FOR
RETARDED SOLUTION OF WAVE EQUATION (U), 52 P., (U)

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MUCID15832

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copy: 1 id: 88210-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCID15922

AUTH: TERHUME R.W.

CLSS: U

CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)

DATE: 7110

REPN: UCID 15922

TITL: PREDICTION OF SPALL PHENOMENA AND NEAR SURFACE EFFECTS FOR PROJECT
RIO BLANCO (U), 20 P., (U)

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MUCID15922

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copy: 1 id: 88216-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCID30028

AUTH: TOKARZ F.J.

CLSS: U

CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)

DATE: 7105

REPN: UCID 30028

TITL: INPUT SOIL PROPERTIES FOR THE FINITE ELEMENT CODE NTEDYNS (U), 11
P., (U)

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MUCID30028

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copy: 1 id: 88374-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCID30028R1
AUTH: TOKARZ F.J.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7203
REPN: UCID 30028 REV. 1
TITL: INPUT SOIL PROPERTIES FOR THE FINITE ELEMENT CODE "NTEDYNS" (U), 11
P., (U)

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MUCID30028R1

.endblock

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copy: 1 id: 88375-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCLA12817
AUTH: ROMENY E.M. ; WALLACE A. ; CHILDRESS J.D.
CLSS: U
CONN: AT (04-1) GEN 12
CORP: CALIFORNIA UNIVERSITY, LAB OF NUCLEAR MEDICINE AND RADIATION BIOLOGY
(LOS ANGELES CA)
DATE: 7105
REPN: UCLA 12 817
TITL: REVEGETATION PROBLEMS FOLLOWING NUCLEAR TESTING ACTIVITIES AT THE
NEVADA TEST SITE (U), 21 P., (U)

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MUCLA12817

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copy: 1 id: 88378-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL10617 2
AUTH: COMBET M. ; GERARD R.
CLSS: U
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA.)
DATE: 7208
REPN: UCRL TRANS 10617 2
TITL: RADIOLOGICAL RISKS RELATIVE TO THE DISTRIBUTION OF CONTAMINATED GAS
(U), 15 P., (U)

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MUCRL10617 2

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copy: 1 id: 88396-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MUCRL50635R2
AUTH: SMITH C.F.JR.
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7104
REPN: UCRL 50635 (REV. 2)
TITL: PROJECT GASBUGGY GAS QUALITY ANALYSIS AND EVALUATION PROGRAM
TABULATION OF RADIOCHEMICAL AND CHEMICAL ANALYTICAL RESULTS (U), 27
P., (U)

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MUCRL50635R2

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copy: 1 id: 88446-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MUCRL50936
AUTH: CRAWFORD T.V. ; PETERSON K.R. ; KNOX J.B.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7106
REPN: UCRL 50936 (REV. 2)
TITL: PREDICTIONS OF LONG DISTANCE RADIOACTIVITY AND RADIATION DOSES TO
MAN IN 13 HYPOTHETICAL EXCAVATION APPLICATIONS (U), 53 P., (U)

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MUCRL50936

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copy: 1 id: 88476-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MUCRL50966
AUTH: WERTH G.C. ; NORDYKE M.D. ; SCHWARTZ L.B.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7104
REPN: UCRL 50966
TITL: ANALYSIS OF NUCLEAR-EXPLOSIVE GAS STIMULATION AND THE PROGRAM
REQUIRED FOR ITS DEVELOPMENT (U), 44 P., (U)

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MUCRL50966

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copy: 1 id: 88481-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: MUCRL50990
AUTH: FLEMING E.H.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7101
REPN: UCRL 50990
TITL: METHODOLOGY FOR COMPUTING POTENTIAL RADIATION DOSE TO MAN FROM
NUCLEAR EXCAVATION PROJECTS (U), 13 P., (U)

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MUCRL50990

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copy: 1 id: 88485-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MUCRL50992
AUTH: VIECELLI J.A.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7101
REPN: UCRL 50992
TITL: APPLICATION OF THE TENSOR CODE TO THE CALCULATION OF RAYLEIGH WAVES
(U), 11 P., (U)

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MUCRL50992

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copy: 1 id: 88486-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MUCRL50993
AUTH: TERHUNE R.W.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7101
REPN: UCRL 50993
TITL: PREDICTION OF UNDERGROUND NUCLEAR EXPLOSION EFFECTS IN WAGON WHEEL
SANDSTONE (U), 24 P., (U)

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MUCRL50993

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copy: 1 id: 88487-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL51054
AUTH: KNOX J.B. ; CRAWFORD T.V. ; PETERSON K.R. ; CRANDALL W.K.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7105
REPN: UCRL 51052
TITL: COMPARISON OF U.S. AND U.S.S.R. METHODS OF CALCULATING THE
TRANSPORT,DIFFUSION, AND DEPOSITION OF RADIOACTIVITY (U), 52 P., (U)

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MUCRL51054

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copy: 1 id: 88488-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL51067
AUTH: TEWES H.A. ; TAYLOR R.W.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7107
REPN: UCRL 51067
TITL: GAS QUALITY AT THE WELLHEAD, PREDICTIONS FOR PROJECT WAGON WHEEL
(U), 10 P., (U)

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MUCRL51067

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copy: 1 id: 88489-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL51068
AUTH: SCHWARTZ L. ; ROBISON W. ; ANSPAUGH L.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7106
REPN: UCRL 51068
TITL: OPPORTUNITIES TO MONITOR POTENTIAL DOSE TO MAN FROM NUCLEAR
EXCAVATION (U), 20 P., (U)

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MUCRL51068

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL51074
AUTH: WERTH G.C.
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7106
REPN: UCRL 51074
TITL: STATUS OF CONTAINED NUCLEAR EXPLOSIVE APPLICATIONS (U), 32 P., (U)

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MUCRL51074

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL51097
AUTH: HOWARD C.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7108
REPN: UCRL 51097
TITL: CAVITY DECOUPLING OF NUCLEAR EXPLOSIONS (U), 33 P., (U)

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MUCRL51097

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copy: 1 id: 88492-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL51110
AUTH: BUTKOVICH T.R.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7109
REPN: UCRL 51110
TITL: EFFECTS OF WATER SATURATION ON UNDERGROUND NUCLEAR DETONATIONS (U),
17 P., (U)

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MUCRL51110

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copy: 1 id: 88494-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL51293
AUTH: BOZAK R.E. ; TAYLOR R.W.

CLSS: U
CORP: LAWRENCE LIVERMORE LAB. (LIVERMORE, CA.)
DATE: 7210
REPN: UCRL 51293
TITL: EFFECTS OF HEAT AND RADIATION ON GASBUGGY CHIMNEY GAS (U), 20 P.,
(U)

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MUCRL51293

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copy: 1 id: 88507-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL73022
AUTH: LESSLER R.M.
CLSS: U
CORP: CALIFORNIA UNIVERSITY, LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7102
REPN: UCRL 73022 ; CONF 710301 5
TITL: PLOWSHARE APPLICATIONS AND CROSS SECTION UTILIZATION (U), 13 P., (U)

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MUCRL73022

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copy: 1 id: 88614-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: MUCRL73130
AUTH: LEWIS A.E.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7108
REPN: CONF 711105 1 ; UCRL 73130
TITL: NUCLEAR CHIMNEYS-UNDERGROUND CONTAINERS FOR CHEMICAL AND
METALLURGICAL PROCESSING (U), 32 P., (U)

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MUCRL73130

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copy: 1 id: 88615-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL73170
AUTH: LESSLER R.M. ; GREEN J.B. JR. ; HOLZER F.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7108
REPN: UCRL 73170 ; CONF 710809 6

TITL: TRITIUM PRODUCTION IN PLOWSHARE APPLICATIONS (U), 20 P., (U)

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MUCRL73170

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copy: 1 id: 88616-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL73256

AUTH: GATES R.H.

CLSS: U

CORP: CALIFORNIA UNIVERSITY, LAWRENCE RADIATION LAB. (LIVERMORE, CA.)

DATE: 7107

REPN: UCRL 73256 ; CONF 710804 1

TITL: SLOPE ANALYSIS FOR EXPLOSIVE EXCAVATIONS (U), 26 P., (U)

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MUCRL73256

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copy: 1 id: 88617-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL73258

AUTH: GREEN J.B. JR. ; LESSLER R.M.

CLSS: U

CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)

DATE: 7109

REPN: UCRL 73258 ; CONF 711009 9

TITL: REDUCTION OF TRITIUM FROM UNDERGROUND NUCLEAR EXPLOSIVES (U), 27 P.,

(U)

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MUCRL73258

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copy: 1 id: 88618-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

INUM: MUCRL73270

AUTH: MISKEL J.A.

CLSS: U

CORP: CALIFORNIA UNIVERSITY, LAWRENCE RADIATION LAB. (LIVERMORE, CA.)

DATE: 7106

REPN: UCRL 73270 ; CONF 710809 3

TITL: PRODUCTION OF TRITIUM BY NUCLEAR WEAPONS (U), 12 P., (U)

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MUCRL73270

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copy: 1 id: 88619-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MUCRL73429
AUTH: ANSPAUGH L.R. ; KORANDA J.J. ; ROBISOM W.L.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7108
REPN: UCRL 73429
TITL: ENVIRONMENTAL ASPECTS OF NATURAL GAS STIMULATION EXPERIMENTS WITH
NUCLEAR DEVICES (U), 47 P., (U)

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MUCRL73429

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copy: 1 id: 88622-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MUCRL73473
AUTH: BEDFORD R.G.
CLSS: U
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7110
REPN: UCRL 73473 ; CONF 711032 1
TITL: ESTIMATION OF THE DISTRIBUTION OF TRITIATED WATER BETWEEN THE VAPOR
PHASE AND MOLTEN ROCK IN THE CAVITY CREATED BY A NUCLEAR EXPLOSION
WITH SPECIAL REFERENCE TO RECENT FRENCH DATA (U), 8 P., (U)

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MUCRL73473

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copy: 1 id: 88624-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: MURCL51034
AUTH: BLAKE A. ; ZASLAWSKY M.
CLSS: U
CONN: W 7405 ENG 48
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7104
REPN: UCRL 51034
TITL: BEHAVIOR OF STEMMING MATERIALS UNDER STRESS (U), 54 P., (U)

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MURCL51034

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copy: 1 id: 88727-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent
.endblock

INUM: PEP 3-1-10
AUTH: Forster D.W. ; Goodman M. ; Herbert G. ; Martin J.C. ; Storr T.
CLSS: U
CORP: Atomic Weapons Research Establishment
DATE: 7104
DESC: test instruments nuclear radiation neutron L1
DESC: EXPERIMENTAL
DESC: test instruments nuclear radiation beta electron beams L1
LA: UK
SUJO: 4-342-000 ; 4-344-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 1, Notes
1-13 (U)
TITL: Electron Beam Diagnostics Using X-rays (U), 43 P., (U)

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PEP 3-1-10

.endblock

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copy: 1 id: 50247-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: PEP 3-2-20
AUTH: Locke J.G. ; Simmons A.C.
CLSS: U
CORP: Atomic Weapons Research Establishment
DATE: 7103
DESC: Simulation Facilities Techniques x-ray effects L1 MINI-C
DESC: EXPERIMENTAL
LA: UK
SUJO: 4-231-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 2, Notes
14-27 (U)
TITL: Experimental Investigations of Mini-C Electron Beam Transport
(Interim Report) (U), 31 P., (U)

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PEP 3-2-20

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copy: 1 id: 50180-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: PEP 3-2-21
AUTH: Fieldhouse P.
CLSS: U
CORP: Atomic Weapons Research Establishment
DATE: 7106
DESC: Simulation Facilities Techniques x-ray effects L1
DESC: SUMMARY

LA: UK
SUJO: 4-231-000
SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 2, Notes
14-27 (U)
TITL: Further Energy Deposition Measurements on Mini-C Electron Beam (U),
4 P., (U)

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PEP 3-2-21

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copy: 1 id: 50181-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PEP 3-3-33

ABS: Measurements on electron beams propagating in a gas filled drift
tube show pressure dependent longitudinally periodic variations of
light intensity, microwave emission, beam head velocity and net
current. These results are consistent with an ionization
instability, such as that proposed by Eastlund.

AUTH: Andrews M.L. ; Davitian H. ; Fleischmann H.H. ; Nation J.A.

CLSS: U

CORP: Cornell University

DATE: 7101

DESC: EXPERIMENTAL

DESC: Plasma Physics MHD fusion L1

SUJO: 9-500-000

SYMJ: Pulsed Electrical Power Radiation Production Notes; Vol. 3, Notes
28-35 (U)

TITL: Ionization Instability in the Propagation of High-Current
Relativistic Electron Beams in Gages (U), 10 P., (U)

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PEP 3-3-33

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copy: 1 id: 52941-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PNE 0527

ADNO: A081136

AUTH: TAMI T.M. ; GIBSON T.A. JR. ; PRINDLE A.L.

CLSS: U

CORP: ARMY ENGINEER NUCLEAR CRATERING GROUP (LIVERMORE, CA)

DATE: 7101

DESC: Nuclear Test Simulation Field Programs experiment design fallout
radioactivity L1

DESC: test instruments nuclear radiation fallout debris sampling
collectors L1

DESC: EXPERIMENTAL

DESC: Nuclear Weapon Environment Fallout isotope concentrations L1

REPN: PNE 0527

SHOT: SCHOONER
TSHO: SURFACE
SUJO: 2-223-100 ; 4-345-000 ; 4-821-000
TITL: PROJECT SCHOONER; FAR-OUT FALLOUT COLLECTION PROGRAM (U), 24 P., (U)

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PNE 0527

.endblock

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copy: 1 id: 88935-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: PNE 0529
AUTH: RHOADS W.A. ; KANTZ A.D. ; RAGSDALE H.L.
CLSS: U
CONN: AT (40 1) 2412 ; AT (29 1) 1183
CORP: EG + G, INC. (GOLETA, CA)
DATE: 7206
DESC: Nuclear Weapon Effects on plants ionizing radiation chronic L1
DESC: Nuclear Weapon Effects ecological L1
DESC: Nuclear Weapon Environment Fallout beta intensities L1
DESC: Environmental Conditions at Nuclear Weapon Test Site topography L1
DESC: THEORY EXPERIMENTAL
DESC: Nuclear Weapon Environment Fallout gamma intensities spectra L1
REPN: PNE 0529
SHOT: SCHOONER
TSHO: UG-VENTED
SUJO: 2-223-200 ; 2-223-300 ; 3-332-200 ; 3-341-000 ; 4-843-000
TITL: ECOLOGICAL AND ENVIRONMENTAL EFFECTS FROM LOCAL FALLOUT FROM
SCHOONER; 2. THE BETA AND GAMMA RADIATION EFFECTS FROM CLOSE-IN
FALLOUT (U), CA. 50 P., (U)

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PNE 0529

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copy: 1 id: 88936-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: PNE 0714
CLSS: U
CORP: NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AIR RESOURCES LAB.
(LAS VEGAS, NV.)
DATE: 7203
REPN: PNE 0714
TITL: WEATHER PREDICTIONS AND SURFACE RADIATION ESTIMATES FOR THE SULKY
EVENT (U), 39 P., (U)

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PNE 0714

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copy: 1 id: 88952-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
.endblock

INUM: PNE 0959
CLSS: U
CORP: SOUTHWESTERN RADIOLOGICAL HEALTH LAB. (LAS VEGAS, NV.)
DATE: 7105
REPN: PNE 0959
TITL: REPORT OF OFF-SITE SURVEILLANCE FOR PROJECT CABRIOLET (U), 70 P.,
(U)

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PNE 0959

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copy: 1 id: 88981-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PNE 1006
CLSS: U
CORP: EBERLINE INSTRUMENT CORP. (SANTA FE, NM)
DATE: 7108
REPN: PNE 1006
TITL: PROJECT GASBUGGY-ON-SITE RADIOLOGICAL SAFETY DURING PRODUCTION
TESTING, JANUARY 25, 1968-DECEMBER 31, 1969 (U), 44 P., (U)

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PNE 1006

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copy: 1 id: 88989-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PNE 1550
CLSS: U
CORP: AMERICAN OAK SHALE CORP. (SALT LAKE CITY, UTAH) ; BATTELLENORTHWEST
(RICHLAND, WASH.) ; LAWRENCE RADIATION LAB. (LIVERMORE, CA.)
DATE: 7104
REPN: PNE 1550
TITL: FEASIBILITY STUDY OF A PLOWSHARE GEOTHERMAL POWER PLANT (U), 177 P.,
(U)

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PNE 1550

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copy: 1 id: 89018-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: PNE R 44

AUTH: SMITH C.F.
CLSS: U
CORP: LAWRENCE RADIATION LAB (LIVERMORE CA)
DATE: 7101
REPN: UCRL 50986 ; PNE R 44
TITL: GAS ANALYSIS RESULTS FOR PROJECT RULISON CALIBRATION FLARING SAMPLES
(U), 11 P., (U)

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PNE R 44

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copy: 1 id: 89086-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: PNE RB 11 VO
AUTH: SCHIAGER K.J. ; JOHNSON J.E. ; WATTERS R.L. ; WHICKER F.W.
CLSS: U
CORP: COLORADO STATE UNIVERSITY, DEPT. OF RADIOLOGY AND RADIATION BIOLOGY
(FT. COLLINS, CO.)
DATE: 7107
REPN: PNE RB 11 VOL. 1
TITL: BIOLOGICAL ECOLOGICAL CONSIDERATIONS FOR PROJECT RIO BLANCO; VOL. 1,
PRE-EVENT INVENTORY AND POTENTIAL IMPACT ANALYSIS (U), 219 P., (U)

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PNE RB 11 VO

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created: 12/27/1991 type: REPORT permanent

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INUM: PNE RB 12 VO
AUTH: SCHIAGER K.J. ; JOHNSON J.E. ; WATTERS R.L. ; WHICKER F.W.
CLSS: U
CORP: COLORADO STATE UNIVERSITY, DEPT. OF RADIOBIOLOGY AND RADIATION
BIOLOGY (FT. COLLINS, CO.)
DATE: 7106
REPN: PNE RB 12 VOL. 2
TITL: BIOLOGICAL ECOLOGICAL CONSIDERATIONS FOR PROJECT RIO BLANCO; VOL. 2,
APPENDICES CONTAINING ENVIRONMENTAL INVENTORY DATA FROM VARIOUS
SOURCES (U), 483 P., (U)

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PNE RB 12 VO

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created: 12/27/1991 type: REPORT permanent

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INUM: POR 6279 11

ADNO: 513678L
AUTH: GERBER J. D. ; DAVID C.V.
CLSS: SRD 1
CORP: AIR FORCE/WEAPONS LABORATORY (KIRTLAND AFB-NM) ; RADIATION
ENGINEERING CORP (SAN DIEGO, CA)
DATE: 7101
DESC: EXPERIMENTAL
DESC: Cross Sections x-ray L1
DESC: Nuclear Weapon Effects materials plastics resins L1 X RAY
REPN: POR 6279 11 ; WT 6279 11
SHOT: DORSAL FIN
TSHO: UG CONTAINED
SUJO: 3-244-000 ; 9-840-000
TEMP: 77187
TITL: INVESTIGATION OF NEW SHIELDING MATERIALS, OPERATION LATCH KEY, SHOT
DORSAL FIN, PROJECT OFFICERS REPORT, PROJECT 8.81, VOLUME 11 (U), 92
P, (SRD)

TREE: 413

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POR 6279 11

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created: 12/27/1991 type: REPORT permanent

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INUM: POR 6411 1

AUTH: VEENEMAN J.G. ; BAUSCH H.P. ; LILLEY J.R. ; HOLLISTER H. ; MACLEAN
L.M. ; OTEY G.R.

CLSS: SRD 1 CNWDI

CONN: DA 30 069 AMC 333 (Y)

CORP: ARMY SAFEGUARD SYSTEM COMMAND (HUNTSVILLE, AL) ; KAMAN NUCLEAR
(COLORADO SPRINGS, CO) ; MCDONNELL DOUGLAS ASTRONAUTICS (HUNTINGTON
BEACH, CA) ; SANDIA LIVERMORE LABORATORY (LIVERMORE, CA) ; LAWRENCE
RADIATION LABORATORY (LIVERMORE, CA)

DATE: 7107

DESC: SPARTAN FRATRICIDE XRAY SHOCK ; EXPERIMENTAL

DESC: Nuclear Weapon Effects electrical mechanical cables wires L1

DESC: Nuclear Weapon Effects structures aboveground models cylinders cones
rings L1

DESC: Nuclear Weapon Effects materials metals alloys L1 AL

DESC: Nuclear Test Simulation Field Programs experiment design aerospace
systems L1

DESC: Nuclear Weapon Effects materials plastics resins L1

DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1

DESC: Nuclear Weapon Effects missile systems ABM L1

EFFT: X-RAY

EMPF: 397

REPN: POR 6411 1 ; WT 6411 1

PROJ: 8.11 ; 8.12 ; 8.13 ; 8.51 ; 8.71

SHOT: MINT LEAF

TSHO: UG

SUJO: 3-112-200 ; 3-162-000 ; 3-231-000 ; 3-243-000 ; 3-244-000 ;

3-259-400 ; 4-829-100

SYST: SPARTAN MISSILE

TEMP: 79364

TITL: CLASSIFIED TITLE (U), VOL. 1, MINUTE GUN SERIES MINT LEAF EVENT,
PROJECT OFFICERS REPORT-PROJECTS 8.11, 8.12, 8.13, 8.51, 8.71, 129
P., (SRD CNWDI)

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POR 6411 1

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copy: 1 id: 89853-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 6411 4

AUTH: VEENEMAN J.G. ; SCHWAF R.E. ; FRANK B.V. ; HOLLISTER H. ; MACLEAN
L.M. ; OTEY G.R.

CLSS: SRD 1 CNWDI

CCDE: PUFF ; DTF

CONN: DA 30 0690 AMC 333 (Y)

CORP: ARMY SAFEGUARD SYSTEM COMMAND (HUNTSVILLE, AL) ; BELL TELEPHONE LABS
(WHIPPANY, NJ) ; MCDONNELL DOUGLAS ASTRONAUTICS CO (SANTA MONICA,
CA) ; PICATINNY ARSENAL (DOVER, NJ) ; KAMAN SCIENCES CORP (COLORADO
SPRINGS, CO) ; LAWRENCE RADIATION LAB (LIVERMORE, CA) ; SANDIA CORP
(LIVERMORE, CA)

DATE: 7107

DESC: Nuclear Weapon Effects ordnance electroexplosive devices fuses L1 X
RAY

DESC: SIMULATION SPARTAN ; EXPERIMENTAL TABULAR

DESC: Nuclear Weapon Effects missile systems ABM L1 IEMP X RAY

DESC: Nuclear Weapon Effects materials metals alloys L1 AL

DESC: Nuclear Weapon Effects materials ceramics optical L1 QUARTZ

DESC: Nuclear Weapon Effects electrical mechanical L1 BATTERIES X RAY

EMPF: 397

REPN: POR 6411 4 ; WT 6411 4

PROJ: 8.11 ; 8.12 ; 8.13 ; 8.51 ; 8.71

SHOT: MINT LEAF ; HUDSON SEAL

TSHO: UG CONTAINED

SUJO: 3-112-200 ; 3-162-000 ; 3-239-000 ; 3-241-000 ; 3-243-000

TEMP: 79394

TITL: CLASSIFIED TITLE (U) 170 P., (SRD CNWDI)

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POR 6411 4

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copy: 1 id: 89856-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: POR 6428

ADNO: 881252L

AUTH: POUND D.C.

CLSS: U
CONN: DASA 01 69 C 0105
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO-CA)
DATE: 7102
DESC: EXPERIMENTAL
DESC: Nuclear Test Simulation Field Programs experiment design underground
systems L1 PIPE PRESSURIZATION
REPN: POR 6428 ; WT 6428
PROJ: 9.64
SHOT: MINT LEAF
TSHO: UG-CONTAINED
SUJO: 4-829-300
TITL: MEASUREMENT OF TUNNEL ENVIRONMENT AND LOS PIPE REPRESSURIZATION,
OPERATION MINUTE GUN, SHOT MINT LEAF, PROJECT OFFICERS REPORT,
PROJECT 9.64 (U), 40 P (U)

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POR 6428

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copy: 1 id: 89872-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

.endblock

INUM: POR 6463
AUTH: POUND D.C.
CLSS: U
CONN: DASA 01-70-C-0081
CORP: GULF RADIATION TECHNOLOGY (SAN DIEGO CA)
DATE: 7105
DESC: Nuclear Test Simulation Field Programs experiment design stemming
containment line of sight LOS L1 LOS ENVIRONMENT
DESC: Nuclear Test Simulation Field Programs experiment design x-ray
experiments L1 ENVIRONMENT
DESC: EXPERIMENTAL TABULAR
DESC: Nuclear Weapon Phenomenology UGT Debris in tunnels L1
REPN: POR 6463 ; WT 6463 ; GULF RT 10484
PROJ: 9.69
SHOT: HUDSON MOON ; DIANA MIST ; DIESEL TRAIN
TSHO: UG CONTAINED
SUJO: 2-231-000 ; 4-820-500 ; 4-829-700
TITL: MEASUREMENT OF TUNNEL ENVIRONMENT, PROJECT OFFICERS REPORT--PROJECT
9.69, MINUTE GUN SERIES HUDSON MOON EVENT (U), 74 P., (U)

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POR 6463

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copy: 1 id: 89901-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POR 6553
ADNO: 514841L

AUTH: MCNEILLY J.H. ; GIBSON N. ; SMALL T.M. ; BRADY R.E. ; TREAT D.W. ;
KINCH J.W. -
CLSS: SRD 1
CORP: ARMY/BALLISTIC RESEARCH LAB (ABERDEEN PROVING GROUND-MD)
DATE: 7104
DESC: Nuclear Weapon Effects electronic pieceparts solar cells L1 XRAY
DETECTORS NEUTRONS GAMMA
DESC: test instruments x-ray effects L5
REPN: POR 6553 ; WT 6553
PROJ: 2.06
SHOT: MINUTE STEAK
TSHO: UG-CONTAINED
SUJO: 3-223-000 ; 4-330-000
TEMP: 77698
TITL: FERROELECTRIC RADIATION DETECTORS, OPERATION MOLD WIND, SHOT MINUTE
STEAK, PROJECT OFFICERS REPORT, PROJECT 2.06 (U), 71 P (SRD)
TREE: 653 ; 364
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POR 6553
.endblock
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copy: 1 id: 89955-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent
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INUM: POR 6556 1
AUTH: EGGERS G.H. ; MORTON B.J. ; BLAKESLEE R.P. ; BRUSH D.S. ; GALLOWAY
R.N. ; HALLN.E. ; MOORE C.D. ; OVERMYER R.F. ; SENKO C.R. ; WILLIS
D.E. ; WISE K.M.
CLSS: SRD 1
CORP: GULF ENERGY AND ENVIRONMENTAL SYSTEMS INC (SAN DIEGO CA)
DATE: 7105
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes
silicon-controlled rectifiers L1
DESC: XRAY ; EXPERIMENTAL
DESC: Nuclear Weapon Effects materials metals alloys L1 SOLDER
DESC: Nuclear Weapon Effects electronic pieceparts integrated circuits L1
REPN: POR 6556 1 ; WT 6556 1
PROJ: 2.09A ; 2.09C ; 2.09D
SHOT: MINUTE STEAK
TSHO: UG CONTAINED
SUJO: 3-221-000 ; 3-222-000 ; 3-243-000
TEMP: 79052
TITL: INVESTIGATION OF RADIATION RESISTANCE OF SEMICONDUCTOR DEVICES (U),
336 P., (SRD)
TREE: 310 ; 320
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POR 6556 1
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copy: 1 id: 89956-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POR 6556 2
ADNO: 514943L
AUTH: EGGERS G.H. ; GREEN L.F. ; BLAKESLEE R.P. ; DOWNING K.O. ; HALL N.E.
; MOORE C.D. ; NABER J.A. ; OVERMYER R.F. ; WISE K.M.
CLSS: SRD 1
CONN: DASA 01 69 C 0036
CORP: GULF GENERAL ATOMIC INCORPORATED (SAN DIEGO-CA)
DATE: 7104
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1
MAGNETIC CARES PLATED WIRES XRAYS INTERNAL EMP
DESC: EXPERIMENTAL
EMPF: 393
REPN: POR 6556 2 ; WT 6556 2
PROJ: 2.09B
SHOT: MINUTE STEAK
TSHO: UG-CONTAINED
SUJO: 3-212-000
TEMP: 77732
TITL: INVESTIGATION OF RADIATION RESISTANCE OF MAGNETIC COMPONENTS
OPERATION MILD WIND, SHOT MINUTE STEAK, PROJECT OFFICERS REPORT,
PROJECT 2.09B (U), 344 P (SRD)
TREE: 343

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POR 6556 2

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: POR 6558
ADNO: 514944L
AUTH: MAUPIN E.C. ; ROGERS J.M. ; ROBINSON B.J. ; MARRAFFINO P.
CLSS: SRD 1
CONN: F33615
CORP: SPERRY RAND CORP (GREAT NECK NY)
DATE: 7104
DESC: Nuclear Weapon Environment Initial Gamma source strength total
intensity L5
DESC: Nuclear Weapon Environment Prompt Neutron source strength total
fluence L5
DESC: Nuclear Weapon Effects missile systems strategic L1 NAVIGATIONAL
COMPUTER
DESC: COUNTERMEASURE TECHNIQUE VULNERABILITY TO RADIATION ; EXPERIMENTAL
DESC: Nuclear Weapon Effects electronic subsystems computers memory L1
TRANSIENT RADIATION VULNERABILITY
DESC: Nuclear Weapon Environment X-ray Output source strength total
intensity L5
REPN: POR 6558 ; WT 6558 ; 69 C 1150
PROJ: PROJECT 2.11
SHOT: MINUTE STEAK

TSHO: UNDERGROUND (CONTAINED)
SUJO: 1-110-000 ; 1-610-000 ; 1-710-000 ; 3-112-100 ; 3-212-000
TEMP: 79963
TITL: EFFECTS OF NUCLEAR RADIATION ON CIRCUMVENTION SUBSYSTEM ELECTRONICS,
SERIES MILD WIND, EVENT MINUTE STEAK, PROJECT OFFICERS
REPORT--PROJECT 2.11 (U), 110 P., (SRD)

TREE: 341 ; 420

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POR 6558

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copy: 1 id: 89958-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: SR 124

ABS: The following papers are presented in the proceedings -airblast environment at high altitudes : airblast environment from sea level to 100K feet : airblast from underwater nuclear bursts : blast response of aircraft : blast response of surface ships : blast response of missiles (including spring) : conical shock tube phenomenology -simulation effects studies : weapon storage concepts : bottom reflection of underwater shock waves : refraction of underwater explosion shockwaves state of art : explosions at or near air/water and water/ocean bottom interfaces : nuclear bubble effects -shock response of surface ships -submarine HULL response to nuclear underwater explosions : shock simulation techniques : submarine shock simulation techniques : thermal environments from nuclear detonations : thermal radiation and combined thermal and air blast vulnerability : simulation techniques-thermal

ABS: pulse and combined thermal/blast simulation : impulsively generated waves : surface ships and submarines, harbors and harbor facilities -response to explosion generated waves : wave simulation techniques : phenomena and shock response to surface ships.

ADNO: 517042

CLSS: SRD 1

CONN: DASA 01 70 C 0035

CORP: DASA INFORMATION AND ANALYSIS CENTER (SANTA BARBARA CA)

DATE: 7108

REPN: DASIAC SR 124

TEMP: 81849

TITL: PROCEEDINGS OF THE DASA SHOCK PHYSICS LAND AND NAVAL SYSTEMS LONG RANGE PLANNING MEETING, 23-24 FEBRUARY 1971 (U), 558 P., (SRD)

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SR 124

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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INUM: SR 124-439

AUTH: DERKSEN W.L.
CLSS: S 3
CORP: NAVAL ORDNANCE LAB
DATE: 7108
DESC: Nuclear Weapon Effects Communications Systems C4 hardware radio
microwave systems L1 THERMAL BLAST INTEGRATED EFFECTS
DESC: TABULAR
DESC: Nuclear RDT&E Research Program Descriptions integrated effects
system studies L1
TSHO: LOW-ALT
SUJO: 3-132-000 ; 4-160-000
SYMJ: TOGETHER WITH PROCEEDINGS OF THE DASA SHOCK PHYSICS LAND AND NAVAL
SYSTEMS LONG RANGE PLANNING MEETING
TITL: THERMAL RADIATION AND COMBINED THERMAL AND AIR BLAST VULNERABILITY
(U) 33 P., (S)

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SR 124-439

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created: 12/27/1991 type: REPORT permanent

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INUM: SR 134
AUTH: VAJDA F.S.
CLSS: SRD
CORP: DEFENSE NUCLEAR AGENCY, RADIATION DIRECTORATE (WASH., D.C.)
DATE: 7201
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability
L1
DESC: SUMMARY SURVEY
EMPF: 790
REPN: DASIAC SR 134
SUJO: 4-170-000
SYST: PERSHING ; LANCE ; SAM-D ; SAFEGUARD ; B-52 AIRCRAFT ; B-1 AIRCRAFT
; F-15 AIRCRAFT ; F-111 AIRCRAFT
TEMP: A3265
TITL: ELECTROMAGNETIC PULSE (EMP) LONG RANGE PLANNING MEETING (LRPM) (U),
45 P., (SRD)

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SR 134

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: SR 139
CLSS: U
CONN: DASA 01 70 C 0035
CORP: DASIAC (SANTA BARBARA, CA.)
DATE: 7207

DESC: Nuclear Weapon Effects on animals blast shock translation L5
DESC: Nuclear Weapon Effects on animals ionizing radiation prompt L1
DESC: SURVEY
REPN: DASIAC SR 139
SUJO: 3-311-200 ; 3-312-100
TITL: TTCP PANEL N-5 MEETING 21-23 MARCH 1972 (U), 133 P., (U)

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SR 139

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cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: SR 140 1
AUTH: VAJDA F.S.
CLSS: S
CORP: DEFENSE NUCLEAR AGENCY, RADIATION DIRECTORATE (WASH., D.C.)
DATE: 7206
DESC: INCLUDES FUNDING INFORMATION ; SUMMARY
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

EMPF: 790
REPN: DASIAC SR 140 1
SUJO: 4-170-000
TEMP: A1785 CY.4
TITL: ELECTROMAGNETIC PULSE MID RANGE PLANNING MEETING (U), 11 P., (S)

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SR 140 1

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copy: 1 id: 90864-1001 library: DOCUMENT price: \$.00
cat1: cat2: home: STACKS current: STACKS
created: 12/27/1991 type: REPORT permanent

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INUM: SR 140 2
AUTH: VAJDA F.S.
CLSS: S
CORP: DEFENSE NUCLEAR AGENCY, RADIATION DIRECTORATE (WASH., D.C.)
DATE: 7206
DESC: INCLUDES FUNCTION INFORMATION ; SUMMARY
DESC: Nuclear RDT&E Research Program Descriptions electronic vulnerability

L1

EMPF: 790
REPN: DASIAC SR 140 2
SUJO: 4-170-000
TEMP: A1852 CY.4
TITL: ELECTROMAGNETIC PULSE MID RANGE PLANNING MEETING; STATE-OF-THE-ART
SEMINAR (U), 11 P., (S)

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SR 140 2

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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