

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

Default: (Default) Action: Access/Declassification Review EO 12958	
DATE REVIEW DATE: 16 Feb 2000	1. Classification (Code Review)
AUTHORITY: [Signature]	2. Classification Exemptions Unchanged
REASON: [Signature]	3. Classification Changed to: [Signature]
2nd REVIEW DATE: [Signature]	4. Contains No EXTRA Classified Info
AUTHORITY: [Signature]	5. Contains No WFO
NAME: [Signature]	6. Exempt From Declassification
	8. Exemptions 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.

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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

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.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  
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created: 12/27/1991 type: REPORT permanent  
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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  
TITL: 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  
TITL: 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)

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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]

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

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

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

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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

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

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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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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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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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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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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

.endblock

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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

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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

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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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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

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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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

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  
TTTL: RADIATION EFFECTS DESIGN HANDBOOK, SECTION 2-THERMAL-CONTROL  
COATINGS (U), CA.50 P., (U)

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12237

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

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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

TITL: 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

TITL: 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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copy: 1 id: 45817-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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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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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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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 LI 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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cat1: cat2: home: STACKS current: STACKS  
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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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent  
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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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12284

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copy: 1 id: 45833-1001 library: DOCUMENT price: \$.00  
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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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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copy: 1 id: 45859-1001 library: DOCUMENT price: \$.00  
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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12344

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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  
TTTL: LABORATORY STUDY OF RADIATION EFFECTS ON ELECTRIC FIELD SENSORS (U),  
114 P., (U)  
TREE: 365

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12349

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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  
TTTL: 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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12371

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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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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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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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12398

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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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12454-2

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copy: 1 id: 46005-1001 library: DOCUMENT price: \$.00  
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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12477

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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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copy: 1 id: 46024-1001 library: DOCUMENT price: \$.00  
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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12493  
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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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12532  
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copy: 1 id: 46083-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
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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copy: 1 id: 46095-1001 library: DOCUMENT price: \$.00  
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 piecparts 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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copy: 1 id: 46104-1001 library: DOCUMENT price: \$.00  
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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copy: 1 id: 46116-1001 library: DOCUMENT price: \$.00  
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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12569-06

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copy: 1 id: 46121-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

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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12569-10

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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

.endblock

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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12616-22A

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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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12616-22C

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created: 12/27/1991 type: REPORT permanent

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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

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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

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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

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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

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created: 12/27/1991 type: REPORT permanent

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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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created: 12/27/1991 type: REPORT permanent

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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

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created: 12/27/1991 type: REPORT permanent

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INUM: 12726  
ADNO: 730625  
AUTH: COHEN M.O.  
CLSS: U  
CCDE: NUDATA ; 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: NUDATA A COMPUTER PROGRAM TO PREPARE CROSS-SECTION DATA FOR THE  
MAGI-SGD CODE (U), 62 P., (U)

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12726

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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

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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)

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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

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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 T710J ; 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

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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

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created: 12/27/1991 type: REPORT permanent

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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

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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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created: 12/27/1991 type: REPORT permanent

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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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created: 12/27/1991 type: REPORT permanent

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

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

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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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created: 12/27/1991 type: REPORT permanent

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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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created: 12/27/1991 type: REPORT permanent

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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

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12995

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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

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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)

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12996  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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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)

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13003  
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created: 12/27/1991 type: REPORT permanent  
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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  
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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  
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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  
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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  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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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  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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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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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

.endblock

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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13165

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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.

CLSS: 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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13180

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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  
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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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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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copy: 1 id: 46754-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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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  
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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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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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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 pieceparts 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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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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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  
TTTL: ADJOINT DIFFERENCE METHOD AND ITS APPLICATION TO DEEP PENETRATION  
RADIATION TRANSPORT, FINAL REPORT (U), 77 P., (U)  
TREE: 970

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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  
TTTL: FISSION HEATING OF SHIELDED FISSION WARHEADS (U), 15 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: 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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copy: 1 id: 46809-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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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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13362

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copy: 1 id: 46823-1001 library: DOCUMENT price: \$.00

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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13416

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copy: 1 id: 46877-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

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

.endblock

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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13433

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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  
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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  
.endblock

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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13719  
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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  
.endblock

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  
TTTL: 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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13726  
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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  
.endblock

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  
TTTL: 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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13726B  
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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  
.endblock

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

TITLE: 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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13726C

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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

TITLE: 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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13726D

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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

TITLE: 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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13726E

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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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13726F  
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copy: 1 id: 47190-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
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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13733  
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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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13747

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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 ;  
SUPERTO ; 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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13749

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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  
TTTL: 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  
.endblock

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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13784P.2-1

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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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13788

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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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13829

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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

.endblock

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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13839

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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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13840

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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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13841

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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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13875

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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

.endblock

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

.endblock

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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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13987

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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

.endblock

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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  
TTTL: COMPUTER-AIDED SYSTEM APPROACH TO THE RADIATION VULNERABILITY OF A  
DIVIDE BY TWENTY COUNTER (U), 20 P., (U)  
TREE: 341

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14159

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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

.endblock

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  
TTTL: MUSE-A MULTIPLE SCATTERING EFFECT CODE FOR INFINITE SLABS (U), 87  
P., (U)  
TREE: 970

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14172

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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

.endblock

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  
TITL: 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

.endblock

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  
TITL: 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  
.endblock

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  
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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  
.endblock

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  
TTTL: CALIBRATION OF HDL 5-ELEMENT ABSORPTION GAMMA-RAY SPECTROMETER (U),  
85 P., (U)  
TREE: 651

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14284

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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  
.endblock

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  
TTTL: MANUFACTURING METHODS PROGRAM FOR RADIATION HARDENED POWER  
STRUCTURES (U), 58 P., (U)  
TREE: 310 ; 610

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14289

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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  
.endblock

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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14292

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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

.endblock

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  
TTTL: 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

.endblock

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

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

TREE: 310 ; 320

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14301

.endblock

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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

.endblock

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

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

TREE: 420 ; 320

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14304

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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

.endblock

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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14309

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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  
TTTL: 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  
TTTL: 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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14404

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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

.endblock

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

.endblock

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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

.endblock

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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14409  
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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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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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copy: 1 id: 47843-1001 library: DOCUMENT price: \$.00  
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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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14475

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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  
TTTL: POSSIBLE CATARACTOGENIC EFFECTS OF RADIOFREQUENCY RADIATION (U), 7  
P., (U)

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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

.endblock

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  
TTTL: ANALYSIS OF THE PHYSIOLOGIC EFFECTS OF MICROWAVE RADIATION (U), 73  
P., (U)

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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

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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  
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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  
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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  
TTIL: 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  
TTIL: 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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14577

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copy: 1 id: 47949-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS

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

REPN: 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

REPN: 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

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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  
TTIL: COMPUTATION OF PHOTON RADIATION INDUCED ELECTRON EMISSION (U), 30  
P., (U)

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14611

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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  
TTIL: NUCLEAR RADIATION EFFECTS STUDY (U), CA. 250 P., (S)

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14613

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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  
TTIL: 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

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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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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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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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copy: 1 id: 48027-1001 library: DOCUMENT price: \$.00  
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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copy: 1 id: 48033-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

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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14728

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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

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  
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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  
.endblock

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  
TTTL: 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  
TTTL: 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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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  
TTTL: 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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15037

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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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15077

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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

.endblock

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

.endblock

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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15191

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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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15211

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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

.endblock

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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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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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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cat1: cat2: home: STACKS current: STACKS  
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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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15225

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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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15256

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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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15300

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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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15319

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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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15345

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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  
TTTL: 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  
TTTL: 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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15462

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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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15764  
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copy: 1 id: 48909-1001 library: DOCUMENT price: \$.00  
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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copy: 1 id: 48914-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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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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copy: 1 id: 48915-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

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

cat1: cat2: home: STACKS current: STACKS

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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copy: 1 id: 48921-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

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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copy: 1 id: 48933-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
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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copy: 1 id: 48937-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
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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copy: 1 id: 48955-1001 library: DOCUMENT price: \$.00  
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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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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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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copy: 1 id: 48964-1001 library: DOCUMENT price: \$.00  
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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15884  
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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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copy: 1 id: 49050-1001 library: DOCUMENT price: \$.00  
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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15945

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copy: 1 id: 49072-1001 library: DOCUMENT price: \$.00  
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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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copy: 1 id: 49101-1001 library: DOCUMENT price: \$.00  
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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15984

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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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15995

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copy: 1 id: 49111-1001 library: DOCUMENT price: \$.00  
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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copy: 1 id: 49195-1001 library: DOCUMENT price: \$.00  
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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16128

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copy: 1 id: 49207-1001 library: DOCUMENT price: \$.00  
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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16145

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

cat1: cat2: home: STACKS current: STACKS

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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16478

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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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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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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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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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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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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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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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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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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  
TTTL: 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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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  
TTTL: RADIATION SCREENING TECHNIQUES FOR INTEGRATED CIRCUITS; ADDENDUM 1,  
WAFER ANNEALING (U), 72 P., (U)  
TREE: 320 ; 610

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16959  
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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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created: 12/27/1991 type: REPORT permanent  
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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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17122

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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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17151

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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

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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  
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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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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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17291

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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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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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copy: 1 id: 50273-1001 library: DOCUMENT price: \$.00

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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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copy: 1 id: 50314-1001 library: DOCUMENT price: \$.00

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  
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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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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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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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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

23096

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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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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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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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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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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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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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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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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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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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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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copy: 1 id: 50455-1001 library: DOCUMENT price: \$.00

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

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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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cat1: cat2: home: STACKS current: STACKS

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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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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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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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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  
.endblock

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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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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18475

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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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copy: 1 id: 51263-1001 library: DOCUMENT price: \$.00  
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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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copy: 1 id: 51294-1001 library: DOCUMENT price: \$.00  
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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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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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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copy: 1 id: 51519-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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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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cat1: cat2: home: STACKS current: STACKS

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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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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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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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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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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copy: 1 id: 52016-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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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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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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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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19905

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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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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20062

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copy: 1 id: 53103-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
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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cat1: cat2: home: STACKS current: STACKS  
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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copy: 1 id: 53231-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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

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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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20218

.endblock

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copy: 1 id: 53236-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
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: AFRRRI 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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copy: 1 id: 53305-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

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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copy: 1 id: 53316-1001 library: DOCUMENT price: \$.00

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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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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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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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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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cat1: cat2: home: STACKS current: STACKS  
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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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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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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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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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cat1: cat2: home: STACKS current: STACKS  
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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INUM: 20467  
AUTH: COHAN S.L. ; CATRAVAS G.N. ; ABBOTT J.R. ; RICKS E.E.  
CLSS: 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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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.

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

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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: AFRRI 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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copy: 1 id: 53450-1001 library: DOCUMENT price: \$.00

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: AFRRI 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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20474

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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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20475

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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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20476

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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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copy: 1 id: 53491-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

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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copy: 1 id: 53533-1001 library: DOCUMENT price: \$.00

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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20588

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copy: 1 id: 53542-1001 library: DOCUMENT price: \$.00  
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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20592

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copy: 1 id: 53546-1001 library: DOCUMENT price: \$.00

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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20593  
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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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20594  
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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: AFRR I SR71 8  
SUJO: 3-312-100  
TITL: X RAY-INDUCED TRANSIENT CHANGES IN NERVE CHARACTERISTICS (U), 24 P.,  
(U)

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20595  
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copy: 1 id: 53549-1001 library: DOCUMENT price: \$.00  
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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20647

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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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20673

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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  
.endblock

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

.endblock

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

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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  
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INUM: 22076  
AUTH: READ F.W.  
CLSS: U

~~COPY: ROYAL AIRCRAFT ESTABLISHMENT (CARDOROUGH HALLS, ENFIELD)~~

22078  
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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  
.endblock

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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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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

.endblock

INUM: 22379  
AUTH: WELLS L.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  
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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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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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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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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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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  
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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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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

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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

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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

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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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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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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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copy: 1 id: 55808-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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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

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copy: 1 id: 55810-1001 library: DOCUMENT price: \$.00  
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created: 12/27/1991 type: REPORT permanent

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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  
TTTL: GAAS JUNCTION FIELD-EFFECT TRANSISTOR RADIATION STUDY (U), 31 P.,  
(U)

TREE: 310

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23315

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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

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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  
TTTL: 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

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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

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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  
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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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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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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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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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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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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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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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23689-120

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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  
TTTL: 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  
TTTL: 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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cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
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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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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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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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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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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  
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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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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: AMIIA K 0401  
SUJO: 3-312-000  
TITL: FUNCTIONAL MECHANISMS IN THE DEVELOPMENT OF RADIOBIOLOGICAL EFFECTS  
(U), 324 P., (U)

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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: USAMIIA 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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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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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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copy: 1 id: 63028-1001 library: DOCUMENT price: \$.00

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  
TTTL: LASER RESEARCH AND DEVELOPMENT PROGRAMS, VOL. 2 APPENDIXES, HIGH POWER LASER RELATED RESEARCH INVESTIGATIONS (U), 364 P., (S)

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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  
TTTL: MATERIAL EFFECTS OF HIGH POWER LASER RADIATION II (U), 96 P., (S)

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32947  
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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  
SCCE: ██████████ SPRINT ; W-66  
SUJO: 2-312-600  
TEMP: A2848  
TTTL: REVIEW OF RADIATION TRANSPORT FOR BLACKOUT APPLICATIONS (U), 13 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: 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  
TTTL: 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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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  
TTTL: VIKING 75 PROJECT; VIKING PIECE PART NUCLEAR RADIATION TEST REPORT;  
VOL. 4, POWER TRANSISTORS (U), 20 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: 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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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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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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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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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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35444  
.endblock  
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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  
.block  
35445  
.endblock  
.block  
copy: 1 id: 66148-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

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  
.block  
35446  
.endblock  
.block  
copy: 1 id: 66149-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

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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35447

.endblock

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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

.endblock

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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36330

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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

.endblock

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

.endblock

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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

.endblock

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

.endblock

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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  
.endblock

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 part 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

.block  
39730  
.endblock

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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  
.endblock

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

.block  
DASA 2418

.endblock  
.block  
copy: 1 id: 75413-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

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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copy: 1 id: 75496-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

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

.endblock

INUM: DASA 2616  
ADNO: 886479  
AUTH: RAYMOND J.P. ; POCOCK D.N. ; SROUR I.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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copy: 1 id: 75607-1001 library: DOCUMENT price: \$.00  
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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copy: 1 id: 75621-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

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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copy: 1 id: 75629-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

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  
.endblock

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  
.endblock

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

.endblock

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  
TTTL: SYMPOSIUM ON TRANSIENT RADIATION EFFECTS AND TECHNIQUES FOR CIRCUIT  
HARDENING (STRETCH) (U), 261 P., (C)  
TREE: 300  
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DASA 2652  
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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  
.endblock

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  
TTTL: SYMPOSIUM ON TRANSIENT RADIATION EFFECTS AND TECHNIQUES FOR CIRCUIT  
HARDENING (STRETCH) (U), 180 P., (SRD)  
TREE: 300  
.block  
DASA 2652 1  
.endblock  
.block  
copy: 1 id: 75644-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent  
.endblock

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

.endblock

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

.endblock

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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  
.endblock

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  
.endblock

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

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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

.endblock

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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

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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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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  
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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

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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

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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

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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. ; BORGONOV I 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  
.endblock

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)  
TTTL: 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

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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

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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

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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 1 ; 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

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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

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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

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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

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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

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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

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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

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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

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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  
TTTL: GAMMA-RAY PRODUCTION CROSS SECTIONS FOR IRON AND ALUMINUM (U), 199  
P., (U)

TREE: 412

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DNA 2736F

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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

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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

TTTL: 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

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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

TTTL: 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

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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

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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

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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

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INUM: DNA 2779F  
AUTH: CERBONE R.J.  
CLSS: U  
CCDE: IDF ; 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

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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

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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

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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

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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

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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

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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

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copy: 1 id: 75924-1001 library: DOCUMENT price: \$0.00  
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

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copy: 1 id: 75951-1001 library: DOCUMENT price: \$0.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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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

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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

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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

.endblock

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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

.endblock

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

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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

.endblock

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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

.endblock

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

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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

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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

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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

.endblock

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

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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

.endblock

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  
TTTL: MORSE CODE WITH COMBINATORIAL GEOMETRY (U), 186 P., (U)  
TREE: 960 ; 970

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DNA 2860T

.endblock

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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

.endblock

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  
TTTL: 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



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

TTTL: 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

.endblock

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copy: 1 id: 76061-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

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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

TTTL: 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

SYMI: 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

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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

.endblock

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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

.endblock

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

.endblock

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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

.endblock

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

.endblock

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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

.endblock

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  
TTTL: UV RADIATION MEASUREMENTS (U), 54 P., (U)

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DNA 2928F

.endblock

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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  
TTTL: 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  
BFFT: 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

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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

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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

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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  
CNWDD)

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. ;  
TOMPCKINS 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: [REDACTED]  
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

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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

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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

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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: 41Z

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DNA 2986F

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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

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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

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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

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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

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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

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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  
TTTL: DEVELOPMENT AND APPLICATION OF RADIATION HYDRODYNAMICS CODES, VOL. 1  
(U), 216 P., (SRD)

TREE: 930

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DNA 2996F 1

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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

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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

TTTL: TWO-DIMENSIONAL LATE-TIME CALCULATION OF A SPARTAN DEVICE MODEL (U),  
136 P., (SRD CNWDI)

TREE: 930

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DNA 3013F

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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

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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

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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

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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

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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.  
CLSS: 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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copy: 1 id: 76248-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

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.  
CLSS: 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)  
.block



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

.endblock

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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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copy: 1 id: 52778-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: EMP 1-15-161

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

.endblock

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copy: 1 id: 52781-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
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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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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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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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)  
TTTL: 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)  
TTTL: 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  
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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 pieceparts integrated circuits L1  
DESC: Nuclear Weapon Effects electronic pieceparts transistors diodes silicon-controlled rectifiers L1  
EFFT: TREE  
REPN: IBEE NS 18 6  
SUJO: 3-221-000 ; 3-222-000  
TITL: IBEE 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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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 pieceparts 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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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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copy: 1 id: 82605-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

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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copy: 1 id: 82606-1001 library: DOCUMENT price: \$.00

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  
TTTL: 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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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  
TTTL: RELAXATION PHENOMENA ASSOCIATED WITH RADIATION-INDUCED TRAPPED  
CHARGE IN A1203MOS DEVICES (U), 7 P., (U)  
TREE: 325

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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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cat1: cat2: home: STACKS current: STACKS  
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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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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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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cat1: cat2: home: STACKS current: STACKS  
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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cat1: cat2: home: STACKS current: STACKS

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  
TTIL: 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  
TTIL: 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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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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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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copy: 1 id: 82636-1001 library: DOCUMENT price: \$.00  
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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IEEE71-332

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copy: 1 id: 82637-1001 library: DOCUMENT price: \$.00  
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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IEEE71-350

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copy: 1 id: 82639-1001 library: DOCUMENT price: \$.00

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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IEEE71-359

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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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IEEE71-404

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copy: 1 id: 82647-1001 library: DOCUMENT price: \$.00  
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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copy: 1 id: 82651-1001 library: DOCUMENT price: \$.00  
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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IEEE71-443

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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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IEEE71SP-005

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copy: 1 id: 82656-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
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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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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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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IEEE71SP-033

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copy: 1 id: 82662-1001 library: DOCUMENT price: \$.00  
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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copy: 1 id: 82663-1001 library: DOCUMENT price: \$.00

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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IEEE71SP-051

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copy: 1 id: 82665-1001 library: DOCUMENT price: \$.00

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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IEEE71SP-055

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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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copy: 1 id: 82667-1001 library: DOCUMENT price: \$.00  
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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IEEE71SP-090

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copy: 1 id: 82670-1001 library: DOCUMENT price: \$.00  
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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IEEE71SP-093

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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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IEEE71SP-123

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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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IEEE71SP-154

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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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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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copy: 1 id: 82677-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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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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IEEE71SP-200

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copy: 1 id: 82678-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

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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IEEE71SP-279

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copy: 1 id: 82681-1001 library: DOCUMENT price: \$.00

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 piecparts 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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IEEE72

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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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IEEE72-011

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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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copy: 1 id: 82684-1001 library: DOCUMENT price: \$.00  
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  
SYMI: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.  
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS  
TTTL: 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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copy: 1 id: 82685-1001 library: DOCUMENT price: \$.00  
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  
SYMI: IEEE TRANSACTIONS ON NUCLEAR SCIENCE, DECEMBER 1972; VOL. NS-19, NO.  
6, ANNUALCONFERENCE ON NUCLEAR AND SPACE RADIATION EFFECTS  
TTTL: ELECTRONIC TRANSPORT IN INSULATING FILMS (U), 8 P., (U)  
TREE: 990 ; 385

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IEEE72-033

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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  
SYMI: 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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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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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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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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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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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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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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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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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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IEEE72-108

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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

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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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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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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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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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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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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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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 radiaes 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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IEEE72-175

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cat1: cat2: home: STACKS current: STACKS

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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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IEEE72-181

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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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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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IEEE72-186

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

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

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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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created: 12/27/1991 type: REPORT permanent

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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  
TTTL: ELECTRICAL PROPERTIES OF ELECTRON-IRRADIATED GAAS (U), 6 P., (U)  
TREE: 200

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IEEE72-209

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copy: 1 id: 82710-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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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  
TTTL: FAST NEUTRON EFFECTS ON GAASP SCHOTTKY BARRIER DIODES AND HALL  
EFFECT DEVICES (U), 5 P., (U)  
TREE: 310

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IEEE72-215

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

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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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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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created: 12/27/1991 type: REPORT permanent

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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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IEEE72-305

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cat1: cat2: home: STACKS current: STACKS  
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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cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

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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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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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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  
TTTL: 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  
TTTL: CURRENT CROWDING IN HARDENED POWER TRANSISTORS (U), 3 P., (U)  
TREE: 310

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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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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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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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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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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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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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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.

CLASS: 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.

CLASS: 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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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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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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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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copy: 1 id: 86307-1001 library: DOCUMENT price: \$.00  
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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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  
TTTL: 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  
TTTL: 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  
TTTL: 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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copy: 1 id: 87881-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

.endblock

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

.endblock

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

.endblock

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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

.endblock

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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MSWRHL98R

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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

.endblock

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

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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

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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

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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

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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

.endblock

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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  
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INUM: MUCRL50635R2  
AUTH: SMITH C.F.JR.  
CORP: LAWRENCE RADIATION LAB. (LIVERMORE, CA.)  
DATE: 7104  
REPN: UCRL 50635 (REV. 2)  
TTTL: 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)  
TTTL: 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  
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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  
TTTL: 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  
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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  
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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

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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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copy: 1 id: 88490-1001 library: DOCUMENT price: \$.00  
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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copy: 1 id: 88491-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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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

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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

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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

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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

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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

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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  
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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  
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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

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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

.endblock

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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

.endblock

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

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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

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

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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  
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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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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  
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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

.endblock

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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copy: 1 id: 89107-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: PNE RB 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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copy: 1 id: 89108-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
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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copy: 1 id: 89779-1001 library: DOCUMENT price: \$.00

cat1: cat2: home: STACKS current: STACKS

created: 12/27/1991 type: REPORT permanent

.endblock

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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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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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

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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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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  
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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  
.endblock  
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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.  
CLASS: 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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copy: 1 id: 89957-1001 library: DOCUMENT price: \$.00  
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.  
CLASS: 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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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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cat1: cat2: home: STACKS current: STACKS  
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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copy: 1 id: 90858-1001 library: DOCUMENT price: \$.00  
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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copy: 1 id: 90863-1001 library: DOCUMENT price: \$.00  
cat1: cat2: home: STACKS current: STACKS  
created: 12/27/1991 type: REPORT permanent

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INUM: SR 140 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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