RSIC Newsletter

No. 12   November 11, 1965

RECENT VISITORS TO RSIC

The following people visited RSIC during the month of October: A. Chonez and M. J. Iung, Service de Documentation, Centre d'Etudes Nucleáires de Saclay, France; Bjorn Tell, AB Atomenergi Library, Sweden; and A. Guigan, Commissariat A L'Energie Atomique, France.

OCTOBER ACCESSION LIST OF LITERATURE

The following accession list consists of literature which the RSIC obtained through its usual scanning procedures. This literature will be examined for assignment to various files or for possible rejection. The accession list is divided into three fields of (1) reactor and weapons shielding, (2) space and accelerator shielding, and (3) shielding computer codes.

RSIC is not a documentation center. The literature selected by RSIC may be obtained in general elsewhere.

Reactor and Weapons Shielding

U.S. Patent 3,182,000

Shielding Arrangement for a Spherical Nuclear Reactor Vessel
Hartwig Benzler - May 4, 1965

ORNL-tr-651

Radiation Protection and Safety
(Translated from Atomwirtsch-Atomtech, 10, 103 (1965))

TO-B 65-26

Structure Shielding from Fallout Gamma Radiation
A. L. Kaplan, et al. - 1965

AERE-R-4883

New Methods of Measuring Neutron Dose Equivalent Rate Around Pulsed Neutron Generators
J. W. Leake - June 1965

NUS-229

Dose Calculation Models for Re-entering Nuclear Rockets Debris
Albert W. DeAgazio - May 12, 1965

AFWL-TR-65-95

Delayed Gamma Rays from Fission
R. B. Walton and R. E. Sund - September 1965

CEX-62.11

Distribution of Weapons Radiation in Japanese Residential Structures
J. S. Cheka, F. W. Sanders, et al. - March 1965

TO-B 61-39 (Revised) (AD-277115)

Monte Carlo Calculations on the Reflection and Transmission of Scattered
Gamma Radiations
Dominic J. Raso - May 1962)

LA-3327-MS (C)

Some Neutronic Results of the Kiwi-B-4E Nevada Test
Eugene A. Plasmann, Herbert H. Helmick, et al. - May 1965

ANL-7011

Method for Neutron-Flux Studies in an Operating Power Reactor Using
Bare and Cadmium-Covered Radioactivants
W. G. Knapp - March 1965

MIT-2098-152

Calculation of Inelastic Scattering of Neutrons in the MeV Region
E. H. Auerbach, S. O. Moore - June 9, 1965

HASL-162

Nuclear Emulsion Spectrometry at Low and Intermediate Neutron Energies
R. Sanna, K. O'Brien, et al. - July 1964

CEX-62.50

Neutron-Field and Induced-Activity Measurements - Operation BREN
F. M. Tomnovec and J. M. Ferguson - September 1965

AEET-209

Fission Products Data and Its Application in Studying Fallout from
Nuclear Weapon Tests
C. Tangarajan, U. C. Mishra, B. Y. Lalit, S. Gopalakrishnan, and
S. Sadasivan

NIJS-R-435

The Asymptotic Angular Dependent Leakage Spectrum of Thermal Neutrons
R. Kladnik - August 1964

RRA-T46

Differential Dose Albedo for Calculation of Gamma-Ray Reflection from Concrete
M. B. Wells - December 30, 1964

PSDC-tr-5

Expedient Group Fallout Shelters Trailer Vans - May 13, 1965

ORNL-RSIC-9

A Comparison of Three Methods Used to Calculate Gamma-Ray Transport in Iron
D. K. Trubey, S. K. Penny, K. D. Lathrop -- October 1965

ORNL-TM-1175

The Determination of Neutron Flux in Nuclear Reactors by the Uncollided-Flux Estimator Applied to Monte Carlo Collisions
J. Wallace Webster - 1965

ZFK-RN-27 (Translation requested)

Determination of Fast Neutron Spectra in Iron by Means of Threshold Detectors
K. Fachrmann - June 1964

ORNL-TM-1105

Transition Radiation and Low-Energy Bremsstrahlung (Thesis)
H. J. Howe, Jr., and R. G. Ritchie - August 1965

J. Nucl. Sci. Technol., 2(6), 229-235 (1965)

An Approximate Calculation Method of Flux for Spherical and Cylindrical Sources with a Slab Shield
Hironori Ono and Akira Tsurio

Nucl. Appl., 1(4), 359-374 (August 1965)

A Comparison of Shielding Calculations with Absolute Measurements in Massive Shields
Erkki J. Aalto

Shielding Computer Codes

ORNL-TM-1192   July 1965   Ø5R SØURCE

A Neutron Distribution Routine for the 05R Monte Carlo Code
by J. T. Mihalczo, G. W. Morrison, and D. Irving
FORTRAN 63, IBM-7090 and CDC-1604

IDO-24467 Appendices   December 1963   DER-029
                        DER-074
                        DER-006A
                        DER-013

  Secondary Gamma, Basic Geometry, Fission Product Buildup and Decay
  and Point Source Summation Codes
  by J. O. Howard and G. M. Jacks
  (Written for a digital computer, language not defined)

ER-7777 (Vol. I)   August 1965   LRSPC

  Data Compilation and Evaluation of Space Shielding Problems, Vol. I,
  Range and Stopping Power Data
  by C. W. Hill, W. B. Ritchie and K. M. Simpson, Jr.
  FORTRAN, IBM-7090, -7094

ER-7777 (Vol. II)   August 1965   LMFC
                        SVDC

  Data Compilation and Evaluation of Space Shielding Problems, Vol. II,
  Dose Calculations in Space Vehicles
  by C. W. Hill, W. B. Ritchie, and K. M. Simpson, Jr.
  FORTRAN and FAP, IBM-7090, -7094

ER-6643   January 1964   LPPC
                        LEBC
                        MSGAM

  Computer Programs for Shielding Problems in Manned Space Vehicles
  by C. W. Hill, C. C. Douglas, Jr., W. B. Ritchie and K. M. Simpson, Jr.
  FORTRAN, IBM-7090, -7094