

List of JAEA Documents (updated (10/8/2007))

JAEA-Data/Code

- 2007-012** Program POD: A Computer Code to Calculate Cross Sections for Neutron-Induced Nuclear Reactions
Akira Ichihara, Osamu Iwamoto, Satoshi Chiba, Satoshi Kunieda, Keiichi Shibata
Nuclear Data Center, Nuclear Science and Engineering Directorate
March 2007
- 2007-008** Establishment of a Database for Japan Sea Parameters on Marine Environment and Radioactivity (JASPER) – Volume 1 : Anthropogenic Radionuclides –
Toshimichi Ito, Shigeyoshi Otsuka, Takashi Suzuki, Takayuki Tanaka, Teppei Tsuneyama, Orihiko Togawa
Research Group for Environmental Science, Nuclear Science and Engineering Directorate
March 2007
- 2007-007** ERROJ: A Code to Process Neutron-nuclide Reaction Cross Section Covariance, Version 2.3
Go Chiba
Reactor Physics Analysis and Evaluation Group, Advanced Nuclear System Research and Development Directorate
March 2007
- 2006-025** Program PODS-S; A Computer Code to Calculate Cross Sections for Neutron-Induced Nuclear Reactions by the Statistical Model
Akira Ichihara, Satoshi Kunieda, Osamu Iwamoto
Nuclear Data Center, Nuclear Science and Engineering Directorate
December 2006
- 2006-023** SCINFUL-QMD: Monte Carlo Based Computer Code to Calculate Response Function and Detection Efficiency of a Liquid Organic Scintillator for Neutron Energies up to 3 GeV
Daiki Satoh, Tatsuhiko Sato, Nobuhiro Shigyo, Kenji Ishibashi
Research Group of radiation Protection, Nuclear Science and Engineering Directorate
November 2006
- 006-019** Program for Rapid Dose Assessment in Criticality Accident, RADAPAS
Fumiaki TAKAHASHI
September 2006

JAERI-Data/Code

- 2005-010** In Japanese
- 2005-009** In Japanese
- 2005-005** Program POD-P: A computer code to calculate cross sections for neutron-induced preequilibrium nuclear reactions
Satoshi KUNIEDA, Akira ICHIHARA
September 2005
- 2005-002** Programs OPTMAN and SHEMMAN Version 8 (2004)
Efrem Sh. Soukhovitski, Satoshi Chiba, Osamu Iwamoto, Keiichi Shibata, Tokio Fukahori, Gennadij B. Morogovskij
March 2005
- 2004-014** Atmosphere-soil-vegetation model including CO₂ exchange processes: SOLVEG2
Haruyasu Nagai

November 2004

- 2004-002** Physics and numerical methods of OPTMAN: a coupled-channels method based on soft-rotator model for a description of collective nuclear structure and excitations
Efrem Sh. Soukhovitskii, Gennadij B. Morogovskii, Satoshi Chiba, Osamu Iwamoto, Tokio Fukahori
March 2004
- 2003-021** New method for model coupling using Stampi: Application to the coupling of atmosphere model(MM5) and land-surface model(SOLVEG)
Haruyasi NAGAI
December 2003
- 2003-020** Program CCOM – Coupled-channels optical modal calculation with automatic parameter search
Osamu IWAMOTO
July 2003
- 2003-011** The Libraries FSXLIB and MATXSLIB based on JENDL-3.3
Kazuaki KOSAKO, Naoki YAMANO, Tokio FUKAHORI
July 2003
- 2003-004** Deposition of radionuclides and stable elements in Tokai-Mura
Takashi Ueno, Hikaru AMANO
March 2003
- 2002-027** Data on test results of vessel cooling system of high temperature engineering test reactor
Akio SAIKUSA, Shigeaki NAKAGAWA, Nozomu FUJIMOTO, Yukio TACHIBANA, Tatsuo IYOKU
February 2003
- 2002-026** Descriptive data of JENDL-3.3 Part I (Z=1-50); Part II (Z=51-100)
(Ed.) Keiichi SHIBATA
January 2003
- 2002-025** Comparison of fission and capture cross sections of minor actinides
Tsuneo NAKAGAWA, Osamu IWAMOTO
January 2003
- 2002-024** Environmental monitoring data around the Chernobyl nuclear power plant used in the cooperative research project between JAERI and CHESCIR (Ukraine) (Cooperative research)
Takashi UENO, Takeshi MATSUNAGA, Hikaru AMANO, Yuri TKACHENKO, Alexandr KOVALYOV, Andrei SUKHORUCHKIN, Varelly DEREVETS
January 2003
- 2002-021** Photon and decay data libraries for ORIGEN2 code based on JENDL FP decay data file 2000
Jun-Ichi KATKURA, Hiroshi YANAGISAWA
November 2002
- 2002-020** Curves and tables of neutron cross sections in JENDL-3.3 Part I (Z=1-50); Part II (Z=51-100)
(Eds.) Tsuneo NAKAGAWA, Hiromitsu KAWASAKI, Keiichi SHIBATA
November 2002
- 2002-015** Data on loss of off-site electric power simulation tests of the high temperature engineering test reactor
Takeshi TAKEDA, Shigeaki NAKAGAWA, Nozomu FUJIMOTO, Yukio TACHIBANA, Tatsuo IYOKU
July 2002

- 2002-007** Tracy transient experiment databook 3) ramp feed experiment
Ken NAKAJIMA, Yuichi YAMANE, Kazuhiko OGAWA, Eiju AIZAWA, Hiroshi YANAGISAWA, Yoshinori MIYOSHI
March 2002
- 2002-006** Tracy transient experiment databook 2) Ramp withdrawal experiment
Ken NAKAJIMA, Yuichi YAMANE, Kazuhiko OGAWA, Eiju AIZAWA, Hiroshi YANAGISAWA, Yoshinori MIYOSHI
March 2002
- 2001-042** Measurement of activation reaction rate distribution on a mercury target with a lead-reflector and light-water-moderator for high energy proton bombardment using AGS accelerator
Yoshimi KASUGAI, Hiroshi TAKADA, Shin-ichiro MEIGO, Fujio MAEKAWA, Hiroshi NAKASHIMA, Yujiro IKEDA, Takashi INO, Setuo SATO, Eric JERDE, David GLASGOW
February 2001
- 2001-022** Oscillator strength, transition rates and lifetimes for $n=3$ states in Al-Like ions
U.I. SAFRONOVA, Masao SATAKA, W.R. Johnson, M.S. SAFRONOVA
May 2002
- 2001-019** Comparison of $(n,2n)$ and $(n,3n)$ reaction cross sections for fission products in JENDL-3.2 with available experimental and other evaluated cross section data
Vassily N. MANOKHIN, Naoteru ODANO, Akira HASEGAWA
July 2001
- 2001-004** Compilation of Nuclear Decay Data used for dose calculation: revised data for radionuclides listed in ICRP publication 38
Akira ENDO, Yasuhiro YAMAGUCHI
March 2001
- 200-036** ORIGEN2 Libraries based on JENDL-3.2 for LWR-MOX fuels
Kenya SUYAMA, Masaaki ONOUE, Hideki MATSUMOTO, Akihiro SASAHARA, Jun-ichi KATAKURA
September 2000 (mainly in Japanese)
- 99-041** CRECTJ: A computer program for compilation of evaluated nuclear data
Tsuneo NAKAGAWA
September 1999
- 99-035** Compilation of nuclear decay data used for dose calculations: data for radionuclides not listed in ICRP publication 38
Akira ENDO, Tsutomu TAMURA, Yasuhiro YAMAGUCHI
July 1999
- 99-031** PEGASUS : A pre-equilibrium and multi-step evaporation code for neutron cross section calculation
Tsuneo NAKAGAWA, Shngo IJIMA, Teruo SUGI, Takeo NISHIGORI
June 1999
- 99-028** New options of coupled channels optical model code OPTMAN version 6 (1999)
Efrem Sh. SUKHOVITSKII, Osamu IWAMOTO, Satoshi CIBA, Keiichi SHIBATA
May 1999
- 99-022** A database on Tritium behavior in the chronic HT release experiment (1) meteorological data and Tritium concentrations in air and soil
Hiroshi NOGUCHI, Sumi YOKOYAMA, Satoshi FUKUTANI, Nobuyuki KINOUCHI, Mikio MURATA, Hikaru AMANO, Mariko ANDA
March 1999

- 99-015** A molecular orbital study on the Oxidative decomposition of HFC-32
Yuji MOCHIZUKI
March 1999
- 99-011** A Fortran code CVTRAN to provide cross-section file for Twodant by using macroscopic file
written by SRAC
Tsuyoshi YAMANE, Keichiro TSUCHIHASHI
March 1999
- 98-021** Data collection of fusion neutronics benchmark experiment conducted at FNS/JAERI
Fujio MAEKAWA, Chicara KONNO, Yoshimi KASUGAI, Yukio OYAMA, Yujiro IKEDA
August 1998
- 98-019** Programs OPTMAN and SHEMMAN Version 5 (1998) - coupled channels optical model and
collective nuclear structure calculation -
Efrem Sh. SUKHOVITSKII, Yuri V. PORODZINSKII, Osamu IWAMOTO, Satoshi CHIBA,
Keiichi SHIBATA
May 1998
- 98-018** CASKET: a computer code system for thermal and structural analyses of radioactive material
transport and/or storage cask
Takeshi IKUSHIMA
May 1998
- 97-036** PUNCTURE: A computer program for puncture analysis of radioactive material transport casks
Takeshi IKUSHIMA
September 1997
- 97-035** FINLIB: A Fin energy absorption data library for impact analysis of radioactive material transport
cask with Fins
Takeshi IKUSHIMA
September 1997
- 97-031** Grotrian diagrams for highly ionized Molybdenum
Mo VI through Mo XVII
Toshizo SHIRAI, Jack SUGAR, Wolfgang L. WIESE
July 1997
- 97-029** Grotrian diagrams for highly ionized Copper
Cu X through Cu XXIX
Toshizo SHIRAI, Jack SUGAR, Wolfgang L. WIESE
July 1997
- 97-027** Grotrian diagrams for highly ionized Cobalt
Co VIII through Co XXVII
Toshizo SHIRAI, Jack SUGAR, Wolfgang L. Wiese
July 1997
- 97-026** Grotrian diagrams for highly ionized Iron
Fe VII through Fe XXVI
Toshizo SHIRAI, Jack SUGAR, Wolfgang L. WIESE
July 1997
- 97-025** Grotrian diagrams for highly ionized Manganese
Mn VI through Mn XXV
Toshizo SHIRAI, Jack SUGAR, Wolfgang L. WIESE
July 1997

- 97-022** Grotrian diagrams for highly ionized Titanium
Ti III through Ti XXII
Toshizo SHIRAI, Jack SUGAR, Wolfgang L. WIESE
July 1997
- 97-014** Benchmarking of the NBI block in ASTRA code versus the OFMC calculations
Alexei POLEVOI, Hiroshi SHIRAI, Tomonori TAKIZUKA
March 1997
- 97-003
(Part I)** Curves and Tables of neutron cross sections in JENDL-3.2
Part I (Z=1-50)
(Eds.) Keiichi SHIBATA, Tsuneo NAKAGAWA, Hidemitsu SUGANO, Hiromitsu KAWASAKI
February 1997
- 97-003
(Part II)** Curves and Tables of neutron cross sections in JENDL-3.2
Part II (Z=51-100)
(Eds.) Keiichi SHIBATA, Tsuneo NAKAGAWA, Hidemitsu SUGANO, Hiromitsu KAWASAKI
February 1997
- 97-002** Development of displacement cross section set for evaluating radiation damage by neutron
irradiation in materials used for fusion reactors
Koichi MAKI, Satoshi SATOH, Hiromitsu KAWASAKI
February 1997
- 97-001** CRUSH2: A simplified computer program for impact analysis of radioactive material transport
casks
Takeshi IKUSHIMA
February 1997
- 96-036** The isotopic compositions database system on spent fuels in light water reactors (SFCOMPO)
Masayoshi KUROSAWA, Yoshitaka NAITO, Hiroki SAKAMOTO, Toshiyuki KANEKO
February 1997
- 96-034** Estimates of external dose-rate conversion factors and internal dose conversion factors for
selected radionuclides released from fusion facilities
Toshimitsu HOMMA, Orihiko TOGAWA
November 1966
- 96-029** Neutron transmission benchmark problems for Iron and concrete shields in low, intermediate and
high energy proton accelerator facilities
Yoshihiro NAKANE, Katsumi HAYASHI, Yukio SAKAMOTO, Nobuaki YOSHIKAWA,
Noriaki NAKAO, Syuichi BAN, Hideo HIRAYAMA, Yoshitomo UWAMINO, Kazuo SHIN,
Takashi NAKAMURA
September 1996
- 96-028** A computer code simulating multistage chemical exchange column under wide range of operating
conditions
Toshihiko YAMANISHI, Kenji OKUNO
September 1996
- 96-027** Evaluation of resolved resonance parameters of fission product nuclides with atomic numbers
Z=46-51 for JENDL-3.2
Yutaka NAKAJIMA
August 1996
- 96-020** A point kernel shielding code, PKN-HP, for high energy proton incident
Hiroshi KOTEGAWA

June 1996

- 96-005** Experiments on Iron shield transmission of quasi-monoenergetic neutrons generated by 43- and 68-MeV protons via the ${}^7\text{Li}(\text{pn},\text{n})$ reaction
Hiroshi NAKASHIMA, Noriaki NAKAO, Shun-ichi TANAKA, Takashi NAKAMURA, Kazuo SHIN, Susumu TANAKA, Shin-ichiro MEIGO, Yoshihiro NAKANE, Hiroshi TAKADA, Yukio SAKAMOTO, Mamoru BABA
March 1996
- 95-017** ROCKING: A computer program for seismic response analysis of radioactive materials transport and/or storage casks
Takeshi IKUSHIMA
November 1995
- 95-004** PKN-H: A point kernel shielding code for neutron source up to 400 MeV
Hiroshi KOTEGAWA, Yukio SAKAMOTO, Shun-ichi TANAKA
June 1995
- 94-020** FSXLIB-J3R2: A continuous energy cross section library for MCNP based on JENDL-3.2
Kazuaki KOSAKO, Fujio MAEKAWA, Yukio OYAMA, Yoshitomo UNO, Hiroshi MAEKAWA
December 1994
- 94-019** A simulation code treating all twelve isotopic species of hydrogen gas and water for multistage chemical exchange column
Toshihiko YAMANISHI, Kenji OKUNO
December 1994
- 94-017** Implicit time-dependent finite difference algorithm for Quench simulation
Norikiyo KOIZUMI, Yoshikazu TAKAHASHI, Hiroshi TSUJI
December 1994
- 94-015** Cross sections for particle-rearrangement in Ion-Molecule collisions I. Hydrogen and Helium species
Akira ICHIHARA, Shigeo HAYAKAWA, Masao SATAKA, Toshizo SHIRAI
November 1994
- 94-005** Analytic cross sections for collisions of H, H₂, He and Li atoms and ions with atoms and molecules. II.
Rinsuke ITO, Tatsuo TABATA, Toshizo SHIRAI, R.A. Phaneuf
July 1994
- 94-003** Attenuation data of point isotropic neutron sources up to 400 MeV in water, ordinary concrete and iron
Hiroshi Kotegawa, Shun-ichi TANAKA, Yukio SAKAMOTO, Yoshihiro NAKANE, Hiroshi NAKASHIMA
August 1994