

МЕЖДУНАРОДНАЯ ИНФОРМАЦИЯ

КОМПЬЮТЕРНЫЕ ПРОГРАММЫ, РАЗРАБОТАННЫЕ В 2008 г.

***New programs in the last year.-
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Ядерное энергетическое агентство (NEA) опубликовало подробное описание компьютерных программ по физике реакторов, разработанных в 2008 г. Ниже приводится перечень программ с указанием даты их выпуска и регистрационного номера. Подробные описания доступны на сайте <http://www.nea.fr/html/dbprog/cpsnew.html>

- 1) 01.07.2008 NEA-1822 ZZ FLUKA05-PRE-LIB, FLUKA05 Multi-group, multi-purpose nuclear data library, neutrons, photons, charged particles.
- 2) 30.06.2008 NEA-1826 SOLTRAN, solving multi-dimensional simplified P2 transport and diffusion problems of hexagonal geometry in fast reactors.
- 3) 30.06.2008 NEA-1825 RIMACS, Reactor Inspection Main Control System.
- 4) 30.06.2008 NEA-1824 KCUT, code to generate minimal cut sets for fault trees.
- 5) 30.06.2008 NEA-1821 IPLOT, interactive MELCOR data plotting system.
- 6) 30.06.2008 NEA-1820 GTSP, automatic ultrasonic inspection of Guide Tube Support Pin in nuclear power plants.
- 7) 29.06.2008 NEA-1525 PENELOPE2006, A Code System for Monte-Carlo Simulation of Electron and Photon Transport.
- 8) 25.06.2008 NEA-1819 BURD, Bayesian estimation in data analysis of Probabilistic Safety Assessment.
- 9) 25.06.2008 NEA-1818 ZZ KASHIL-E70, 199 N, 42 Photon Groups Cross Section in MATXS Format Based on ENDF/B-VII.0 for Shielding Applications.
- 10) 25.06.2008 NEA-1817 ZZ KAFAX-J33, 150 and 12 Groups Cross Section Library in MATXS Format based on JENDL-3.3 for Fast Reactors.
- 11) 25.06.2008 NEA-1816 ZZ KAFAX-F31, 150 and 12 Groups Cross Section Library in MATXS Format based on JEFF-3.1 for Fast Reactors.
- 12) 25.06.2008 NEA-1815 ZZ KAFAX-E70, 150 and 12 Groups Cross Section Library in MATXS Format based on ENDF/B-VII.0 for Fast Reactors.
- 13) 13.06.2008 CSNI2007 STEX, International Steam Explosion Experimental Data Base.
- 14) 04.06.2008 NEA-1814 REACTORSHIELDING-NMS, Reactor Shielding for Nuclear Engineers by N.M. Schaeffer.
- 15) 02.06.2008 NEA-1813 EASYQAD version 1.0, Visualization for Gamma and Neutron Shielding Calculations.
- 16) 30.05.2008 NEA-1788 IFPE/BN-MOX-M109/D3, Belgonucleaire Beznau-1 PWR irradiated MOX Fuel Rod M109/D3.

- 17) 30.05.2008 NEA-0919 SRIM-2008, Stopping Power and Range of Ions in Matter.
- 18) 27.05.2008 NEA-17.08 ADEFTA 4.1 Atomic Densities for Transport Analysis.
- 19) 22.05.2008 CCC-0522 VARSKIN-3, Dose Calculation for Skin Contamination, with Saddle Input Generator.
- 20) 20.05.2008 NEA-1812 FUELPERFORMANCE-REP, Seminars on nuclear fuel performance based on basic underlining phenomena, proceedings.
- 21) 14.05.2008 CCC-0553 RASCAL 3.0.5, Radiological Doses from Accident Release to Atmosphere.
- 22) 07.05.2008 CCC-0684 NRC Dose 2.3.10, Evaluation of Routine Radioactive Effluents from Nuclear Power Plants.
- 23) 25.04.2008 PSR-0450 KENO3D, Visualisation Tool for KENO V.A and KENO-VI Geometry Models.
- 24) 14.04.2008 NEA-1809 IFPE/STEED-I Stored Energy / Enthalpy Determination from Studsvik.
- 25) 14.04.2008 NEA-1723 IFPE/ROPE-II, PWR rod over pressure experiment from Studsvik.
- 26) 14.04.2008 NEA-1807 IFPE/DEFEX-II DEMO, BWR fuel primary defect and conditions leading to secondary failure of the cladding by hydriding.
- 27) 14.04.2008 NEA-1806 IFPE/DEFEX, Studsvik DEFEX BWR fuel secondary defect formation as a consequence of primary defects.
- 28) 14.04.2008 NEA-1722 IFPE/ROPE-I, BWR, 4 rods, Ringhals, investigates clad creep-out from Studsvik.
- 29) 27.03.2008 PSR-0538 P-CARES 2.0.0, Probabilistic Computer Analysis for Rapid Evaluation of Structures.
- 30) 13.03.2008 NEA-1803 IFPE/IFA-585, In-Reactor Creep Behaviour of Zircaloy-2 and Zircaloy-4 under Variable Loading Conditions.
- 31) 13.03.2008 NEA-1628 SUS3D, 1-, 2-, 3-Dimensional Cross Section Sensitivity and Uncertainty Code.
- 32) 07.03.2008 NEA-1683 ERANOS 2.0, Modular code and data system for fast reactor neutronics analyses.
- 33) 07.03.2008 PSR-0352 SCAMPI, Problem Dependent Library Preprocessing in AMPX Format.
- 34) 06.03.2008 CCC-0732 SCALE 5.1/ORIGEN-ARP5.1: Modular system for criticality, shielding, source term, fuel depletion/decay, reactor physics.
- 35) 06.03.2008 NEA-1716 TRIPOLI-4.3.3 & 4.4, Coupled Neutron, Photon, Electron, Positron 3-D, Time Dependent Monte-Carlo, Transport Calculation.
- 36) 05.03.2008 NEA-1801 ZZ VITJEFF3.1BOLIB, JEFF-3.1 Multigr Coupled (199n + 42 gamma) X-Section Lib in AMPX Fmt for Nuclear Fission Applications.
- 37) 04.03.2008 NEA-1765 IRPHE-HANDBOOK, International Handbook of Evaluated Reactor Physics Benchmark Experiments.
- 38) 03.03.2008 NEA-1564 EASY-2005.1, European Neutron Activation System.

- 39) 20.02.2008 NEA-1800 CAFDATS, Converter of Angular Fluxes of DORT, ANISN and TORT Systems.
- 40) 20.02.2008 CCC-0601 GENII-1.485, GENII-LIN, Multipurpose Health Physics Code.
- 41) 20.02.2008 NEA-1210 ZZ HATCHES-18, Database for radiochemical modeling.
- 42) 20.02.2008 ESTS1678 MCSLTT, Monte-Carlo Simulation of Light Transport in Tissue.
- 43) 20.02.2008 NEA-1200 ELEORBIT, 3-D Simulation of Electron Orbits in Magnetic Multipole Plasma Source.
- 44) 20.02.2008 DLC-0224 ZZ ALBEDO-DATA, Data for the Calculation of Albedos from Concrete, Iron, Lead and Water for Photons and Neutrons.
- 45) 15.02.2008 NEA-1799 IFPE/AEKI-E110, Experimental Database of E110 Claddings under Accident Conditions.
- 46) 13.02.2008 IAEA1385 CITOPP, CITMOD, CITWI, Proceeding codes for CITATION Code.
- 47) 13.02.2008 PSR-0541 KENO2MCNP, Version 5L, Conversion of Input Data between KENOV.a and MCNP File Formats.
- 48) 13.02.2008 IAEA1420 ZZ ADS-LIB/V1.0, test library for Accelerator Driven Systems.
- 49) 13.02.2008 NEA-1755 SCIP, Radioactive Surface Contamination Investigation Program.
- 50) 13.02.2008 IAEA1413 PGAA-IAEA, Database for Prompt Gamma-ray Neutron Activation Analysis.
- 51) 16.01.2008 NEA-1737 TALYS-1.0, Computes nuclear reactions cross-sections, yields and spectra via a comprehensive set of nuclear models.
- 52) 15.01.2008 NEA-1735 CARL 2.3, Radiotoxicity, activity, dose and decay power calculations for spent fuel.

В.Цукерник