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Newly Available Reactor Physics Benchmark Data in the March 2011 edition of the IRPhEP Handbook

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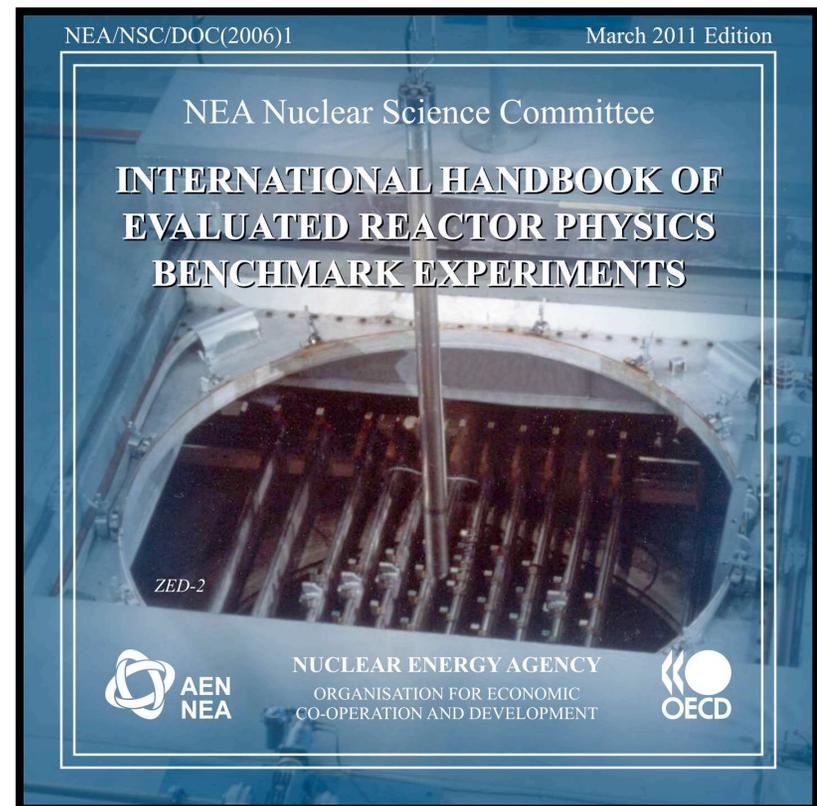


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International Handbook of Evaluated Reactor Physics Benchmark Experiments

March 2011 Edition

- 16 Contributing Countries
- Data from 53 Experimental Series performed at 31 Reactor Facilities
- Data from 48 out of the 53 series are published as approved benchmarks
- Data from 5 out of the 53 series are published in DRAFT form
- Handbook available to OECD member countries, all contributing countries, and to others on a case-by-case basis
- <http://irpheap.inl.gov/>



Measurement Types Included as IRPhEP Benchmarks

- Critical/Subcritical
- Buckling/Extrapolation
- Spectral Characteristics
- Reactivity Effects
- Reactivity Coefficients
- Kinetics Measurements
- Reaction-Rate Distributions
- Power Distributions
- Isotopic Composition
- Miscellaneous
- Extensive Peer Review
 - Evaluator(s)
 - Internal Review
 - Independent Review
 - International Workgroup Review

New/Revised Benchmarks in 2011 Handbook

- **Gas-Cooled Reactor (GCR)**
 - High Temperature Engineering Test Reactor
 - Very High Temperature Reactor Critical (Draft)
- **Liquid Metal Fast Reactor (LMFR)**
 - SNEAK 7A and 7B (Rev.)
 - ZPPR-9 (Rev.)
 - ZPPR-13A
 - ZPPR-18C
- **Vodo-Vodyanoi Energetichesky Reactor (VVER)**
 - LR-0 VVER Physics Experiments (Draft)
- **Light Water Reactor (LWR)**
 - IPEN/MB-01 Research Reactor (Rev.)
- **Heavy Water Reactor (HWR)**
 - ZED-2 Reactor
- **Pressurized Water Reactor (PWR)**
 - B&W Spectral Shift Reactor Lattice Experiment
 - VENUS-PRP Configurations 9 and 9/1 (Draft)
- **Reaktor Bolshoy Moschnosti Kanalniy (RBMK)**
 - RBMK Graphite Reactor
- **Fundamental Physics Reactor (FUND)**
 - ZEBRA Core 8
 - Neutron Radiography Reactor