

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 145, NUMBER 2, OCTOBER 2003

CONTENTS

vii Foreword

Claes Nordborg

TECHNICAL PAPERS

- | | | |
|------------|---|---|
| 161 | The Critical Mass Laboratory at Rocky Flats | <i>Robert E. Rothe</i> |
| 173 | A Brief History of the Lawrence Radiation Laboratory Criticality Facility | <i>David P. Heinrichs,
Stephen C. Wofford</i> |
| 181 | Programs of Experiments with Critical Assemblies at the Russian Research Centre "Kurchatov Institute" | <i>A. A. Bykov, A. Yu. Gagarinski,
E. S. Glushkov, Yu. A. Kravchenko,
N. E. Kukharkin, D. Pavlov,
N. N. Ponomarev-Stepnoi</i> |
| 188 | Benchmark Experiments at VNIITF Test Facilities for Verification of Nuclear Data Libraries | <i>A. P. Vasiliev, Yu. A. Sokolov,
V. A. Terekhin, Yu. I. Chernukhin,
A. V. Lukin, A. I. Saukov,
B. I. Sukhanov, A. M. Ryabinin</i> |
| 196 | Use of Sensitivity and Uncertainty Analysis to Select Benchmark Experiments for the Validation of Computer Codes and Data | <i>K. R. Elam, B. T. Rearden</i> |
| 213 | Monte Carlo Eigenvalue Calculations with ENDF/B-VI.8, JEFF-3.0, and JENDL-3.3 Cross Sections for a Selection of International Criticality Safety Benchmark Evaluation Project Handbook Benchmarks | <i>A. C. Kahler</i> |
| 225 | Criticality Safety of Low-Enriched Uranium and High-Enriched Uranium Fuel Elements in Heavy Water Lattices | <i>Milan P. Pešić</i> |
| 234 | Use of International Criticality Safety Benchmark Evaluation Project Data for Validation of the Nuclear Data Library BAS | <i>V. M. Shmakov, V. D. Lyutov,
V. A. Bekhterev</i> |
| 247 | Use of International Criticality Safety Benchmark Evaluation Project Data for Validation of the ABBN Cross-Section Library with the MMK-KENO Code | <i>T. T. Ivanova, M. N. Nikolaev,
K. F. Raskach, E. V. Rozhikhin,
A. M. Tsiboulia</i> |
| 256 | Examination of the 2×2 SiO_2 , Al, and Fe Experiments Mixed with Highly Enriched Uranium on the Thermal Energy Region | <i>David J. Loaiza, Rene Sanchez</i> |
| 267 | Validation of the Continuous-Energy Monte Carlo Criticality-Safety Analysis System MVP and JENDL-3.2 Using the Internationally Evaluated Criticality Benchmarks | <i>Susumu Mitake</i> |