

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 137, NUMBER 1, JANUARY 2001

CONTENTS

TECHNICAL PAPERS

- 1 Automated Weight Windows for Global Monte Carlo Particle Transport Calculations
Marc A. Cooper, Edward W. Larsen
- 14 An Adaptive Approach to Variational Nodal Diffusion Problems
Hui Zhang, E. E. Lewis
- 23 Composition Heterogeneity Analysis for Direct Use of Spent Pressurized Water Reactor Fuel in CANDU Reactors (DUPIC)—I: Deterministic Analysis
Do Heon Kim, Hangbok Choi, Won Sik Yang, Jong Kyung Kim
- 38 Composition Heterogeneity Analysis for Direct Use of Spent Pressurized Water Reactor Fuel in CANDU Reactors (DUPIC)—II: Statistical Analysis
Hangbok Choi
- 52 A Proposal for Benchmarking ^{235}U Nuclear Data
A. dos Santos, R. Fuga, R. Jerez, A. Y. Abe, E. A. Filho
- 70 Treatment of External Levels in Neutron Resonance Fitting: Application to the Nonfissile Nuclide ^{52}Cr
Fritz H. Fröhner, Olivier Bouland
- 89 Fragment Distribution Analysis of Proton-Induced Reactions with Intermediate Energy Using Quantum Molecular Dynamics Plus Fission Models
Sheng Fan, Zhu-Xiang Li, Yuheng Xiao

TECHNICAL NOTES

- 96 Application of Burnable Absorbers in an Accelerator-Driven System
Jan Wallenius, Kamil Tuček, Johan Carlsson, Waclaw Gudowski
- 107 Interference of the Low-Energy Neutrons on Activation Cross-Section Measurement of the $^{186}\text{W}(n,\gamma)^{187}\text{W}$ Reaction
Guohui Zhang, Zhaomin Shi, Guoyou Tang, Jinxiang Chen, Guangzhi Liu, Hanlin Lu