

Nuclear Science and Engineering

VOLUME 182 · NUMBER 2 · FEBRUARY 2016

Contents

TECHNICAL PAPERS

- 135** Improved Mixed Oxide Fuel Calculations with the Evaluated Nuclear Data Library JEFF-3.2
G. Noguere, D. Bernard, P. Blaise, O. Bouland, L. Leal, P. Leconte, O. Litaize, Y. Penelieu, B. Roque, A. Santamarina, J.-F. Vidal
- 151** A Linear Source Approximation Scheme for the Method of Characteristics
Rodolfo M. Ferrer, Joel D. Rhodes III
- 166** Development and Evaluation of High-Fidelity Product and Evenly Spaced Angular Quadratures for Three-Dimensional Discrete Ordinates Calculations with Large Air Regions
Daniel B. Fromowitz, Gary B. Zeigler
- 181** Fission and Surface Source Iteration Method for Domain Decomposed Monte Carlo Whole-Core Calculation
YuGwon Jo, Nam Zin Cho
- 197** Design Space Analysis for Breed-and-Burn Reactor Cores
Staffan Qvist, Ehud Greenspan
- 213** Developments in Core-Barrel Motion Monitoring and Applications to the Ringhals PWR Units
Imre Pázsit, Cristina Montalvo, Henrik Nylén, Tell Andersson, Augusto Hernández-Solís, Petty Bernitt Cartemo
- 228** Online Monitoring and Prognostics for Passive Components in Nuclear Power Plants
Pradeep Ramuhalli, Surajit Roy, Jangbom Chai
- 243** Quantifying 3-D Positional Uncertainty of Radiological Material from Nuclear Detonation Videos
Daniel T. Schmitt, Robert Slaughter, Gilbert L. Peterson

—continued—

Contents continued

VOLUME 182 · NUMBER 2 · FEBRUARY 2016

TECHNICAL NOTE

- 256** Neutron Emission Spectra of Triton Beams of 20.22-MeV Fully Stopped in Targets of H₂O, D₂O, LiF, Si, Ni, Mo, Ta, W, Pt, and Au
M. Drosog, D. M. Drake

CORRIGENDUM

- 261** Evaluation of Spatial Correction Factors for BRAHMMA Subcritical Assembly
S. Bajpai et al.