

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 124, NUMBER 1, SEPTEMBER 1996

CONTENTS

TECHNICAL PAPERS

- | | | |
|-----|--|---|
| 1 | Linear Transport in Correlated Stochastic Media | <i>J. Devooght</i> |
| 18 | The Effectiveness of P_2 and Simplified P_2 Synthetic Accelerations in the Solutions of Discrete Ordinates Transport Equations | <i>Taewan Noh,
Warren F. Miller, Jr.</i> |
| 31 | Analysis of Inherent Oscillations in Multidimensional S_N Solutions of the Neutron Transport Equation | <i>Bojan G. Petrović,
Alireza Haghghat</i> |
| 63 | Discrete Transport Model Eigenfunctions | <i>T. A. Germogenova</i> |
| 72 | A Diffusion-Accelerated Solution Method for the Nonlinear Characteristic Scheme in Slab Geometry | <i>Todd A. Wareing,
Wallace F. Walters,
Jim E. Morel</i> |
| 82 | Accounting for Strong Localized Heterogeneities and Local Transport Effect in Core Calculation | <i>J. M. Ruggieri, R. Boyer,
J. Y. Doriath, P. J. Finck</i> |
| 89 | Particle Transport in the Presence of Parametric Noise | <i>Anil K. Prinja,
Alejandro Gonzalez-Aller</i> |
| 97 | Efficient Higher Order Nodal Finite Element Formulations for Neutron Multigroup Diffusion Equations | <i>J. P. Hennart,
E. M. Malambu, E. H. Mund,
E. del Valle</i> |
| 111 | Methods and Performance of the Three-Dimensional Pressurized Water Reactor Core Dynamics SIMTRAN On-Line Code | <i>José M. Aragonés,
Carol Ahnert,
Oscar Cabellos</i> |
| 125 | Numerical Stability of the Six-Equation, Single-Pressure Model with Viscous Terms | <i>J. Michael Doster,
Mark A. Holmes</i> |
| 145 | A Parallel Multigrid Preconditioned Conjugate Gradient Algorithm for Groundwater Flow Simulations | <i>Steven F. Ashby,
Robert D. Falgout</i> |
| 160 | Incorporation of a New Spectral History Correction Method into Local Power Reconstruction for Nodal Methods | <i>C. H. Lee, Y. J. Kim,
J. W. Song, C. O. Park</i> |
| 167 | On the Neutron Noise Diagnostics of Pressurized Water Reactor Control Rod Vibrations—IV: Application of Neural Networks | <i>I. Pázsit, N. S. Garis,
O. Glöckler</i> |
| 178 | Multiobjective Pressurized Water Reactor Reload Core Design by Nondominated Genetic Algorithm Search | <i>G. T. Parks</i> |
| 188 | Fuel Management Optimization Using Genetic Algorithms and Expert Knowledge | <i>Michael D. DeChaine,
Madeline A. Feltu</i> |
| 197 | Monte Carlo Calculation of Point-Detector Sensitivities to Material Parameters | <i>R. L. Perel, J. J. Wagschal,
Y. Yeivin</i> |