

# NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 146, NUMBER 3, MARCH 2004

## CONTENTS

### TECHNICAL PAPERS

- |     |  |  |
|-----|--|--|
| 257 | Development of One-Group and Two-Group Interfacial Area Transport Equation   | <i>M. Ishii, S. Kim</i>  |
| 274 | Adequacy of Power-to-Mass Scaling in Simulating PWR Incident Transient for Reduced-Height, Reduced-Pressure and Full-Height, Full-Pressure Integral System Test Facilities | <i>Tay-Jian Liu, Chien-Hsiung Lee</i>  |
| 291 | Long-Lived Fission Product Transmutation Studies   | <i>W. S. Yang, Y. Kim, R. N. Hill, T. A. Taiwo, H. S. Khalil</i>                 |
| 319 | A Nodal and Finite Difference Hybrid Method for Pin-by-Pin Heterogeneous Three-Dimensional Light Water Reactor Diffusion Calculations                                      | <i>Deokjung Lee, Thomas J. Downar, Yonghee Kim</i>                               |
| 340 | Sensitivity- and Uncertainty-Based Criticality Safety Validation Techniques  | <i>B. L. Broadhead, B. T. Rearden, C. M. Hopper, J. J. Wagschal, C. V. Parks</i> |
| 367 | Perturbation Theory Eigenvalue Sensitivity Analysis with Monte Carlo Techniques  | <i>B. T. Rearden</i>   |
| 383 | <b>VOLUME 146 AUTHOR AND SUBJECT INDEXES</b>   |  |