

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 167, NUMBER 2, FEBRUARY 2011

CONTENTS

TECHNICAL PAPERS

- | | | |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 105 | Analysis of Coolant Void Reactivity of Advanced Heavy Water Reactor Through Isotopic Reaction Rates | <i>Kannan Umasankari, S. Ganesan</i> |
| 122 | Application of the Jacobian-Free Newton-Krylov Method to Nonlinear Acceleration of Transport Source Iteration in Slab Geometry | <i>D. A. Knoll, H. Park, Kord Smith</i> |
| 133 | Acceleration of k -Eigenvalue/Criticality Calculations Using the Jacobian-Free Newton-Krylov Method | <i>D. A. Knoll, H. Park, C. Newman</i> |
| 141 | Newton's Method for Solving k -Eigenvalue Problems in Neutron Diffusion Theory | <i>Daniel F. Gill, Yousry Y. Azmy</i> |
| 154 | Comparison of Different Numerical Methods Used in Delayed Neutron Decay Parameters Estimation | <i>Jinkai Wang, Warren D. Reece</i> |
| 165 | Biases and Statistical Errors in Monte Carlo Burnup Calculations: An Unbiased Stochastic Scheme to Solve Boltzmann/Bateman Coupled Equations | <i>E. Dumonteil, C. M. Diop</i> |
| 171 | Calculation of the (α, n) Emission from Plutonium Nitrate and Plutonium Uranyl Nitrate Solutions | <i>M. T. Swinhoe</i> |