

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 181, NUMBER 1, SEPTEMBER 2015

CONTENTS

TECHNICAL PAPERS

- 1** Whole-Core Transport Solutions with 2-D/1-D Fusion Kernel via p-CMFD Acceleration and p-CMFD Embedding of Nonoverlapping Local/Global Iterations *Seungsu Yuk, Nam Zin Cho*
- 17** Whisper: Sensitivity/Uncertainty-Based Computational Methods and Software for Determining Baseline Upper Subcritical Limits *Brian C. Kiedrowski, Forrest B. Brown, Jeremy L. Conlin, Jeffrey A. Favorite, Albert C. Kahler, Alyssa R. Kersting, D. Kent Parsons, Jessie L. Walker*
- 48** Automatic Mesh Adaptivity for Hybrid Monte Carlo/Deterministic Neutronics Modeling of Difficult Shielding Problems *Ahmad M. Ibrahim, Paul P. H. Wilson, Mohamed E. Sawan, Scott W. Mosher, Douglas E. Peplow, John C. Wagner, Thomas M. Evans, Robert E. Grove*
- 60** Computing More Consistent Multigroup Nuclear Data Covariances *Risto Vanhanen*
- 72** An Implicit Correlation Method for Cross-Correlation Sampling, with MCNPX-PoliMi Validation *Matthew J. Marath, Shaun D. Clarke, Brian M. Wieger, Enrico Padovani, Edward W. Larsen, Sara A. Pozzi*
- 82** Analysis of Local Void Coefficients of Reactivity in the Reduced-Moderation BWR *Jeffrey E. Seifried, Ehud Greenspan*
- 96** Experimental Study of Neutron Initiation Probability at CFBR-II with Pulsed Neutrons *Liu Xiaobo, Peng Xianjue, Lei Jiarong, Fan Xiaoqiang, Du Jinfeng, Gao Hui*