Nuclear Science and Engineering
VOLUME 184 · NUMBER 4 · DECEMBER 2016

Contents

TECHNICAL PAPERS

473 A Collision Probability and MOC-Based Lattice and Burnup Code for Analysis of LWR Fuel Assemblies
Sherly Ray, S. B. Degweker, Rashmi Rai, K. P. Singh

495 Heterogeneous Pseudo-Resonant Isotope Method for Resolved Resonance Interference Treatment in Resonance Self-Shielding Calculation
Tiejun Zu, Qian Zhang, Hongchun Wu, Liangzhi Cao, Qingming He, Won Sik Yang

514 Nonlinear Diffusion Acceleration Method with Multigrid in Energy for $k$-Eigenvalue Neutron Transport Problems
Luke R. Cornejo, Dmitriy Y. Anistratov

527 Parallel S, Sweep Scheduling Algorithm on Unstructured Grids for Multigroup Time-Dependent Particle Transport Equations
Jie Liu, Lihua Chi, Wang QingLin, Gong Chunye, Jiang Jie, Gan Xnbiao, Li Shengguo, Qingfeng Hu, Tom Masterson

537 Stochastic Theory of the Fission Chamber Current Generated by Non-Poissonian Neutrons
Lénard Pál, Imre Pázsit

551 Monte Carlo Approach of Effective Delayed Neutron Fraction by k-Ratio Method with External Neutron Source
Masao Yamanaka, Cheol Ho Pyeon, Tsuyoshi Misawa

561 Ranking the Importance of Nuclear Reactions for Activation and Transmutation Events
Wayne Arter, J. Guy Morgan, Samuel D. Relton, Nicholas J. Higham

575 Operational Experience Data Analysis on Events Related to Maintenance at Nuclear Power Plants
Antonio Ballesteros, Radian Sanda, Michael Maqua, Jean-Luc Stephan

—continued—
Contents continued

VOLUME 184 · NUMBER 4 · DECEMBER 2016

584 Pulsed Neutron Source Measurements in the BRAHMA Accelerator-Driven Subcritical System
   Tushar Roy, Nirmal Ray, Shefali Bajpai, Tarun Patel, Mayank Shukla,
   Yogesh Kashyap, Amar Sinha, S. C. Gadkari

TECHNICAL NOTE

591 High-Order Linear Discontinuous and Diamond Differencing Schemes Along Cyclic Characteristics
   Alain Hébert

REVIEWERS/INDEXES/CONTENTS

604 Technical Reviewers

607 Author Index

609 Subject Index

iii Contents of Volume 184