Numerical Science and Engineering
VOLUME 185 · NUMBER 2 · FEBRUARY 2017

Contents

TECHNICAL PAPERS
243 A 2-D/1-D Transverse Leakage Approximation Based on Azimuthal, Fourier Moments
Shane Stimpson, Benjamin Collins, Thomas Downar

263 Control Rod Calculation in Axially Heterogeneous Fast Reactors—I: Influence of the
Absorber Environment
M. Andersson, D. Blanchet, H. Nylén, R. Jacqmin

277 Control Rod Calculation in Axially Heterogeneous Fast Reactors—II: Impact of
Three-Dimensional Homogenization on Core Parameters
M. Andersson, D. Blanchet, H. Nylén, R. Jacqmin

294 Globally Conservative, Hybrid Self-Adjoint Angular Flux and Least-Squares Method
Compatible with Voids
Vincent M. Laboure, Ryan G. McClarren, Yaqi Wang

307 A Consistent CMFD Formulation for the Acceleration of Neutron Transport Calculations
Based on the Finite Element Method
Yeon Sang Jung, Won Sik Yang

325 Comparison of Two Galerkin Quadrature Methods
Jim E. Morel, James S. Warsa, Brian C. Franke, Anil K. Prinja

335 Optimization of Minor Actinide–Bearing Radial Blankets for Heterogeneous
Transmutation in Fast Reactors
Timothée Kooyman, Laurent Buiron, Gérald Rimpault

351 An Equivalent Homogenization Method for Treating the Stochastic Media
Ding She, Zhihong Liu, Lei Shi