

# NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 174, NUMBER 2, JUNE 2013

## CONTENTS

### TECHNICAL PAPERS

- 109** Multicell Correction Method for Treatment of Heterogeneities in Full-Core Calculation of CANDU-Type Reactors *Wei Shen, Dimitar Altiparmakov*
- 135** Neutronic Analysis of the Oregon State TRIGA Reactor in Support of Conversion from HEU Fuel to LEU Fuel *M. R. Hartman, S. T. Keller, S. R. Reese, B. Robinson, J. Stevens, J. E. Matos, W. R. Marcum, T. S. Palmer, B. G. Woods*
- 150** Multilevel NDA Methods for Solving Multigroup Eigenvalue Neutron Transport Problems *Dmitriy Y. Anistratov*
- 163** Unstructured Triangular Nodal- $SP_3$  Method Based on an Exponential Function Expansion *Yunzhao Li, Hongchun Wu, Liangzhi Cao*
- 172** Stochastic Eigenvalues in Multiplying Systems *M. M. R. Williams*
- 179** Predicted Water Chemistry in the Primary Coolant Circuit of a Supercritical Water Reactor *Mei-Ya Wang, Tsung-Kuang Yeh, Hong-Ming Liu, Min Lee*
- 188** Quasi-Differential Neutron Scattering in Zirconium from 0.5 to 20 MeV *D. P. Barry, G. Leinweber, R. C. Block, T. J. Donovan, Y. Danon, F. J. Saglime, A. M. Daskalakis, M. J. Rapp, R. M. Bahrn*
- 202** Measurements of Isomeric Cross Sections for  $(n, \alpha)$  Reaction on  $^{144}\text{Sm}$  Isotope for Neutrons Around 14 MeV *Iskender Atilla Reyhancan, Ayşe Durusoy*