

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 157, NUMBER 1, SEPTEMBER 2007

CONTENTS

TECHNICAL PAPERS

- 1 The Analytic Coarse-Mesh Finite Difference Method for Multigroup and Multidimensional Diffusion Calculations *José M. Aragonés, Carol Ahnert, Nuria García-Herranz*
- 16 Comparison and Extension of Dancoff Factors for Pebble-Bed Reactors *J. L. Kloosterman, A. M. Ougouag*
- 30 Perturbation Theory Based on the Method of Cyclic Characteristics *M. Assawaroongruengchot, G. Marleau*
- 51 Time Series Analysis of Monte Carlo Fission Sources—III: Coarse-Mesh Projection *Brian R. Nease, Taro Ueki*
- 65 Gamma-Ray Production Cross Sections in Multiple Channels for Neutron-Induced Reaction on ^{48}Ti for $E_n = 1$ to 200 MeV *D. Dashdorj, G. E. Mitchell, J. A. Becker, U. Agvaanluvsan, L. A. Bernstein, W. Younes, P. E. Garrett, M. B. Chadwick, M. Devlin, N. Fotiades, T. Kawano, R. O. Nelson*
- 78 Calculation and Analysis of $n + {}^{180,182,183,184,186}\text{natW}$ Reactions in the $E_n \leq 250$ MeV Energy Range *Yinlu Han, Yuyang Shi, Zhengjun Zhang*
- 95 Vacuum Interface Analysis of a Windowless Spallation Target for Accelerator-Driven Systems *P. Michelato, E. Cavaliere, C. Pagani, E. Bari, A. Bonucci*

COMPUTER CODE ABSTRACT

- 110 Potential Enhanced Performances in Radiation Transport Analysis on Structured Mesh Grids Made Available by BOT3P *Roberto Orsi*

LETTER TO THE EDITOR

- 117 Comments on "Evaluation and Propagation of the ^{239}Pu Fission Cross-Section Uncertainties Using a Monte Carlo Technique" *J. J. Wagschal, Y. Yeivin*