

# NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 90, NUMBER 3, JULY 1985

## CONTENTS

### TECHNICAL PAPERS

- 221 Application of Light Water Reactor Core/Reflector Boundary Conditions *M. Segev*
- 231 On the Asymptotic Stability of Nuclear Reactors with Arbitrary Feedback *Turan B. Enginol*
- 236 Dynamic Modeling and Optimum Level Controller Design for Steam Generators in Pressurized Water Reactors *Gyoo Won Suh, Hee Cheon No*
- 248 Monte Carlo Sampling of Compton Scatter Off Moving Electrons *Thomas E. Booth, John S. Hendricks*
- 256 A Different Approach for the Application of Monte Carlo Methods to Electron Transport *S. K. Gupta, M. A. Prasad*
- 263 A Nodal Diffusion Technique for Synthetic Acceleration of Nodal  $S_n$  Calculations *Hussein Khalil*
- 281 Neutron Skyshine from Intense 14-MeV Neutron Source Facility *Takashi Nakamura, Yoshitomo Uwamino, Katsumi Hayashi, Atsushi Torii, Masahiko Ueda, Akito Takahashi*
- 298 Neutron Capture and Fission in  $^{254g}\text{Es}$  *J. Halperin, G. D. O'Kelley, J. H. Oliver, J. E. Bigelow, J. T. Wiggins*
- 304 Measurement of the Neutron Cross Sections for the Reactions  $^{169}\text{Tm}(n, 2n)^{168}\text{Tm}$ ,  $^{169}\text{Tm}(n, 3n)^{167}\text{Tm}$ , and  $^{181}\text{Ta}(n, 2n)^{180m}\text{Ta}$  *Lu Han-Lin, Zhao Wen Rong, Fan Pei Guo*
- 311 Total Charged-Particle Emission Cross Sections for 9.4- and 11-MeV Neutron Bombardment of Type 316 Stainless Steel *Munir Ahmad, S. L. Graham, S. M. Grimes, H. Satyanarayana, S. K. Saraf, S. Stricklin*
- 320 Equilibrium Relationships in the Uranium-Tungsten-Oxygen System in Oxygen Partial Pressures from 0.01 to 1 atm *A. M. Gadalla, N. A. L. Mansour*

(Continued)

VOLUME 90, NUMBER 3, JULY 1985

## **CONTENTS**

**(Continued)**

### **TECHNICAL NOTES**

- |            |  |   |
|------------|--|---|
| <b>330</b> | A Comparison of Different Concepts of Integral Experiments for Fusion Reactor Blanket Design | <i>A. Goldfeld, A. Tsechanski,<br/>G. Shani</i> |
| <b>341</b> | Derivation of the $n$ 'th Order Uncertainty Analysis for Normally Distributed Parameters     | <i>Yigal Ronen</i>                              |