

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 79, NUMBER 3, NOVEMBER 1981

CONTENTS TECHNICAL PAPERS

- 253 Three-Dimensional Neutron Streaming Calculations Using the Monte Carlo Coupling Technique *K. Ueki*
- 265 Gold Neutron Capture Cross Section from 100 to 2000 keV *R. L. Macklin*
- 269 An Accurate Numerical Method to Solve the Linear Fokker-Planck Equation Characterizing Charged Particle Transport in Spherical Plasmas *T. M. Tran, J. Ligou*
- 278 The Effects on Reactivity Coefficients of Spectral Shifts Induced by Doppler Broadening *A. Alapour, R. A. Karam*

TECHNICAL NOTES

- 299 On the Inventory Dynamics of Batch-Fueled Fusion-Fission Systems *T. A. Parish*
- 308 Neutron Penetrations Through Thick Sodium *Yoshiaki Oka, Shigehiro An, Hiroyuki Hashikura, Shun-ichi Miyasaka, Kinji Koyama*
- 315 Pulse-Height Weighting Technique Applied to Fast Neutron Capture Cross-Section Measurements Using Sodium Iodide *S. Joly*

BOOK REVIEWS

- 321 The Pursuit of Simplicity, Edward Teller *W. Bennett Lewis*
- 322 Atomic and Molecular Processes in Controlled Thermonuclear Fusion, M. R. C. McDowell and A. M. Ferendeci *Alfred S. Schlachter*
- 323 Nuclear Chemistry Theory and Applications, G. R. Choppin and J. Rydberg *Glen E. Gordon*
- 324 Two-Phase Flow and Heat Transfer in the Power and Process Industries, A. E. Bergles, J. G. Collier, J. M. Delhay, G. F. Hewitt, and F. Mayinger *Chang-Lin Tien*

(Continued)

VOLUME 79, NUMBER 3, NOVEMBER 1981

CONTENTS

(Continued)

LETTERS TO THE EDITOR

- 326** On Taylor Series Expansions with Generalized Perturbation Methods *Vincent A. Perone,
John M. Kallfelz,
Lotfi A. Belblidia*
- 327** Response to "On the Taylor Series Expansion with Generalized Perturbation Methods" *Augusto Gandini*

328 ANNOUNCEMENT OF CURRENT PUBLICATIONS