

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 59, NUMBER 4, APRIL 1976

CONTENTS

TECHNICAL PAPERS

- 289 Multidimensional Space-Time Nuclear-Reactor Kinetics Studies—Part I: Theoretical *M. R. Buckner, J. W. Stewart*
- 298 Multidimensional Space-Time Nuclear-Reactor Kinetics Studies—Part II: Experimental *P. B. Parks, N. P. Baumann, R. L. Currie, C. E. Jewell*
- 311 A Tensor Transformation Technique for the Transport Equation *S. L. Gralnick*
- 319 A New Expansion for Highly Anisotropic Neutron-Nucleus Scattering *E. A. Attia, A. A. Harms*
- 326 Application of Coarse-Mesh Rebalance Acceleration to Monte Carlo Eigenvalue Problems *T. Asaoka, Y. Nakahara, K. Horikami, T. Nishida, T. Suzuki, Y. Taji, S. Miyasaka, J. Hirota*
- 337 Thermal-Reactor Lattice Analysis Using ENDF/B-IV Data with Monte Carlo Resonance Reaction Rates *W. Rothenstein*
- 350 Reactivity Surveillance Experiments with the Engineering Mock-Up Core of the Fast Flux Test Facility Reactor *J. T. Mihalczo, M. V. Mathis, V. K. Paré*
- 369 An On-Line Reactor Surveillance Algorithm Based on Multivariate Analysis of Noise *K. R. Piety, J. C. Robinson*
- 381 Neutron Capture Cross Sections from 0.1 to 3 MeV by Activation Measurements *M. Lindner, R. J. Nagle, J. H. Landrum*
- 395 Energy Spectra of Secondary Neutrons from the $^{238}\text{U}(n, 2n)$ and $(n, 3n)$ Reactions *M. Caner, M. Segev, S. Yiftah*
- 406 The Transport of Radioactive Corrosion Products in High-Temperature Water—II. The Activation of Isothermal Steel Surfaces *D. H. Lister*

TECHNICAL NOTES

- 427 A New Direct Point Flux Monte Carlo Estimator Using Compensated Rotational Symmetry *Y. S. Horowitz, A. Dubi, S. Mordechai*
- 429 Energy Group Structures and Minimum Critical Mass *Richard B. Jones, P. F. Zweifel*

(Continued)