

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 76, NUMBER 2, NOVEMBER 1980

CONTENTS

TECHNICAL PAPERS

- 89 Investigation of Blowdown Problems with the Computer Code DRIX-2D *H. Mössinger*
- 103 The Effect of Dispersion and Spheroidization Treatment of δ -ZrH₂ on Creep and Corrosion Resistance of Zircaloy *Michiko Hamasaki, Shi-Chien Lin, Yii-Der Chuang*
- 119 Experiments and Analyses of Neutron and Gamma-Ray Streaming in the Cavity-Duct System at a Fast Neutron Source Reactor *Yoshiaki Oka, Ichiroh Yanagisawa, Shigehiro An, Shun-ichi Miyasaka, Tomonori Hyodo*
- 137 Parameter Determination and Application to Nuclear Model Calculations of Neutron-Induced Reactions on Yttrium and Zirconium Isotopes *E. D. Arthur*
- 148 The Neutron Capture and Fission Cross Section of Americium-241 in the Energy Range from 10 to 250 keV *K. Wisshak, F. Käppeler*
- 163 Delayed Neutron Signal Characterization in a Fast Reactor *Kenny C. Gross, Robert V. Strain*
- 175 Plane Asymmetric Cell Lattices with Superimposed Small Buckling *T. Duracz*
- 181 Treatment of Resonance Absorption in an Infinite Homogeneous Mixture Using Fourier Transforms *S. V. G. Menon, D. C. Sahni*
- 198 Application of Biasing Techniques to the Contribution Monte Carlo Method *A. Dubi, S. A. W. Gerstl*
- 218 A Nodal Green's Function Method for Multidimensional Neutron Diffusion Calculations *R. D. Lawrence, J. J. Dorning*
- 232 The Determination of Coupled-Core-Reactor Kinetic Parameters Through Frequency Response *Yoshihiro Yamane, Kazuma Tanaka, Kojiro Nishina, Hajime Tamagawa, Seiji Shiroya*

TECHNICAL NOTES

- 246 An Analysis of Why Single Pressure Two-Fluid Two-Phase Unequal Velocity Model Equations Are Not Globally Hyperbolic *Robert W. Lyczkowski*

(Continued)

VOLUME 76, NUMBER 2, NOVEMBER 1980

CONTENTS

(Continued)

- | | | |
|------------|---|-----------------------|
| 249 | A Method of Solution of the Transport Equation in Toroidal Geometry | <i>J. K. Fletcher</i> |
| 255 | An Improved Single-Parameter Escape Probability Function | <i>D. Kwiat</i> |
| 258 | ANNOUNCEMENT OF CURRENT PUBLICATIONS | |