

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 86, NUMBER 3, MARCH 1984

CONTENTS

TECHNICAL PAPERS

- 247 Equilibrium Relationships in the Uranium-Manganese-Oxygen System in Air *A. M. Gadalla, N. A. L. Mansour*
- 253 A Model for the Thermal-Mechanical Behavior of Mixed-Carbide Sphere-Pac Fuel Pins *K. L. Peddicord, T. L. George, T. C. Kennedy*
- 267 The Transport of Heavy Charged Particles in a Cylindrical Nuclear-Pumped Plasma *A. K. Chung, M. A. Prelas*
- 275 Decision Procedures for Material Balance Sequences *Rudolf Avenhaus*
- 283 Stability Region for a Prompt Power Variation of a Coupled-Core System with Positive Prompt Feedback *Shoji Watanabe, Kojiro Nishina*
- 297 On the Nonuniform Sampling Rejection Method Applied to the Klein-Nishina Probability Density Function *F. Castiglia, E. Oliveri*
- 302 Response Matrix of Symmetric Nodes *Mihály Makai*

TECHNICAL NOTES

- 315 The Average Number of Prompt Neutrons and the Distributions of Prompt Neutron Emission Number for Spontaneous Fission of Plutonium-240, Curium-242, and Curium-244 *Zhang Huanqiao, Liu Zuhua, Ding Shengyue, Liu Shaoming*
- 319 Macro- and Microflux, I: Periodic Lattices *Mihály Makai*
- 326 Analysis of Finite Difference Approximation in a Discrete Ordinates Transport Equation in One-Dimensional Plane Geometry *V. Sundararaman, R. Vaidyanathan*

BOOK REVIEW

- 332 Introduction to Plasma Theory, Dwight R. Nicholson *Terry Kammash*

COMPUTER CODE ABSTRACT

- 333 REBUS-3 *B. J. Toppel*