

# NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 63, NUMBER 4, AUGUST 1977

## CONTENTS

### TECHNICAL PAPERS

- 365 Nonequilibrium Critical Discharge of Saturated and Sub-cooled Liquid Freon-11  
*Michael R. Prisco,  
Robert E. Henry,  
Michael N. Hutcherson,  
John L. Linehan*
- 376 Estimation of Nuclear Decay Heat for Short-Lived Fission Products  
*Tadashi Yoshida*
- 391 Neutron Thermalization Spectrum in a Partially Hydrogenated Terphenyl: Evaluation of Scattering Kernels for Organic Reactor Coolant  
*H. Alan Robitaille,  
John S. Hewitt*
- 401 Double-Differential Beryllium Neutron Cross Sections at Incident Neutron Energies of 5.9, 10.1, and 14.2 MeV  
*D. M. Drake,  
G. F. Auchampaugh,  
E. D. Arthur, C. E. Ragan,  
P. G. Young*
- 413 Thermal-Neutron Capture and Fission Cross Sections and Resonance Integrals for Curium-243  
*C. E. Bemis, Jr., J. H. Oliver,  
R. Eby, J. Halperin*
- 418 High-Resolution Fast-Neutron Gamma-Ray Production Cross Sections for Iron up to 2100 keV  
*W. E. Kinney, F. G. Perey*
- 430 A Reconciliation of Measurements of  $\bar{\nu}_p$  for Neutron-Induced Fission of Uranium-235  
*J. W. Boldeman, J. Fréhaut,  
R. L. Walsh*
- 437 Coarse-Mesh Flux-Expansion Method for the Analysis of Space-Time Effects in Large Light Water Reactor Cores  
*S. Langenbuch, W. Maurer,  
W. Werner*
- 457 Some Basic Properties of the Response Matrix Equations  
*Zbigniew Weiss*

### TECHNICAL NOTES

- 493 Measurements of Energy Spectra and Doses in Liquid Air of Neutrons from a Californium-252 Source  
*K. Clausen, U. Roose,  
P. Schneider-Kühnle,  
F. W. Buchholz, L. Schänzler,  
S. Stüker, G. Tumbrägel,  
M. Weinert*
- 500 Space- and Angle-Dependent Steady-State Thermal-Neutron Spectra Inside Small Beryllium Assemblies: II  
*Suresh Garg, Feroz Ahmed,  
L. S. Kothari*

(Continued)

