

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 55, NUMBER 4, DECEMBER 1974

CONTENTS

TECHNICAL PAPERS

- | | | |
|-----|---|--|
| 359 | Transport and Diffusion Equations in Toroidal Geometry | <i>G. C. Pomraning,
C. A. Stevens</i> |
| 368 | Investigation of the Space- and Energy-Dependent Coherence Function in Zero-Power Coupled-Core Reactors | <i>D. D. Ebert,
J. D. Clement,
W. M. Stacey, Jr.</i> |
| 380 | Interpretation of Coherence Function Measurements in Zero-Power Coupled-Core Reactors | <i>D. D. Ebert,
J. D. Clement,
W. M. Stacey, Jr.</i> |
| 387 | Application of the Probability Table Method to Multi-group Calculations of Neutron Transport | <i>Dermott E. Cullen</i> |
| 401 | Measurement and Analysis of Parameters in Tight ^{232}Th - ^{235}U and ^{232}Th - ^{233}U Lattices Moderated with Heavy Water | <i>J. Hardy, Jr.,
J. J. Volpe,
D. Klein</i> |
| 418 | Semiclassical Description of Fast-Neutron Cross Sections | <i>I. Angeli, J. Csikai,
P. Nagy</i> |
| 427 | Cross Sections of Uranium-235 and Plutonium-239 for Neutrons Producing Gamma Rays | <i>Darrell M. Drake</i> |
| 440 | Neutron Total Cross Section of Curium-248 | <i>R. W. Benjamin,
C. E. Ahlfeld, J. A.
Harvey, N. W. Hill</i> |
| 450 | Half-Lives of Some Cosmogenic Radionuclides: ^7Be , ^{46}Sc , ^{54}Mn , ^{56}Co , and ^{65}Zn | <i>Philip J. Cressy, Jr.</i> |
| 452 | High-Temperature Properties of Sodium for Safety Studies of Liquid-Metal Fast Breeder Reactors | <i>A. Padilla, Jr.</i> |
| 462 | Thermal Fragmentation—A Gas Release Phenomenon | <i>Michael Epstein</i> |

TECHNICAL NOTES

- | | | |
|-----|--|--|
| 468 | Higher Order Variational Principles and Padé Approximants for Linear Functionals | <i>Robert W. Conn</i> |
| 470 | An Inherent Noise Analysis Investigation on the Experimental Breeder Reactor II | <i>David D. Ebert</i> |
| 476 | Neutron Moderation in Fast Reactors in the Presence of Wide Scattering Resonances: Analysis of Methods | <i>G. Palmiotti,
M. Salvatores</i> |

(Continued)

VOLUME 55, NUMBER 4, DECEMBER 1974

CONTENTS

(Continued)

481 LETTERS TO THE EDITOR

485 BOOK REVIEW

486 VOLUME 55 AUTHOR AND SUBJECT INDEXES