

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 70, NUMBER 2, MAY 1979

CONTENTS TECHNICAL PAPERS

- | | | |
|-----|--|--|
| 119 | On the Use of Minimum Film Boiling Temperature as a Criterion for Coherent Molten Metal-Coolant Interactions | <i>Vijay K. Dhir</i> |
| 127 | Application of Acoustic Agglomerators for Emergency Use in Liquid-Metal Fast Breeder Reactor Plants | <i>D. T. Shaw, N. Rajendran</i> |
| 135 | Expert Opinion and Statistical Evidence: An Application to Reactor Core Melt Frequency | <i>George Apostolakis,
Ali Mosleh</i> |
| 150 | The Transmission of Neutrons Through Iron-56 at 24.37 keV | <i>H. I. Liou, R. E. Chrien,
R. C. Block, U. N. Singh</i> |
| 155 | Neutron Resonance Parameters for Neptunium-237 | <i>L. Mewissen, F. Poortmans,
E. Cornelis, G. Vanpraet,
A. Angeletti, G. Rohr,
H. Weigmann</i> |
| 163 | Cross Sections for the $^{14}\text{N}(n,p_0)$, (n,α_0) , and (n,α_1) Reactions from 0.5 to 15 MeV | <i>G. L. Morgan</i> |
| 177 | Fission Yields for Thermal-Neutron Fission of Plutonium-241 | <i>J. K. Dickens</i> |
| 184 | Calculated Time-Dependent Delayed Neutron Group Yields for Thermal-Neutron Fission of Uranium-235 | <i>D. R. Alexander, Y. K. Peng</i> |
| 192 | Electron Transport in One-Dimensional Finite Systems | <i>S. K. Gupta, M. A. Prasad</i> |

TECHNICAL NOTES

- | | | |
|-----|--|--|
| 201 | Use of Temperature Variance to Detect Sodium Boiling | <i>C. C. Meek, R. C. Doerner,
R. F. Hurt</i> |
| 204 | Exact Closed-Form Solution for a Terminal Cost Problem of Nuclear Reactors with Distributed Parameters | <i>S. H. Kim</i> |
| 207 | On the Polynomial Form of Gamma-Ray Buildup Factor Functions | <i>M. Metghalchi</i> |
| 210 | Optimum Biasing of Integral Equations in Monte Carlo Calculations | <i>J. E. Hoogenboom</i> |

(Continued)

VOLUME 70, NUMBER 2, MAY 1979

CONTENTS

(Continued)

COMPUTER CODE ABSTRACT

- 213 TIGERP *J. A. Halbleib, Sr., J. E. Morel*

LETTERS TO THE EDITOR

- 215 Second-Order Perturbation Theory *K. W. Burn*
- 215 Reply to a Comment on "Second-Order Perturbation Theory" *E. Greenspan, D. Gilai, E. M. Oblow*
- 216 Discrete and Continuous Interactions in Charged Particle Transport Theory *J. Ligou*

219 ANNOUNCEMENT OF CURRENT PUBLICATIONS