

NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 88, NUMBER 4, DECEMBER 1984

CONTENTS

TECHNICAL PAPERS

- 475** An Investigation of Neutral-Beam-Driven Impurity Flow Reversal as an Impurity Control Method in Future Tokamaks
*R. B. Bennett,
W. M. Stacey, Jr.*
- 486** Performance of Pairs of Hafnium and Rhodium Self-Powered In-Core Detectors in a Pressurized Water Reactor
*H. D. Warren,
C. T. Rombough,
T. G. Pitts, M. L. Gilbert*
- 495** Droplet Size Distribution from Bulk Flashing
*R. C. Anderson,
C. A. Erdman,
A. B. Reynolds*
- 513** Some Observations of the Two-Dimensional Neutron Noise Field Generated by a Moving Neutron Absorber Located in the Reflector Region of a Low Power Reactor
*William J. Hennessy,
R. A. Danofsky,
R. A. Hendrickson*
- 522** System Transfer Function Applications in Neutron Radiographic Object Scattering
D. R. Wyman, A. A. Harms
- 537** Hadronic Event Generation for Hadron Cascade Calculations and Detector Simulation—Part I: Inelastic Hadron/Nucleon Collisions at Energies Below 5 GeV
K. Hänßgen, J. Ranft
- 551** Hadronic Event Generation for Hadron Cascade Calculations and Detector Simulation—Part II: Inelastic Hadron/Nucleus Collisions at Energies Below 5 GeV
*K. Hänßgen, H.-J. Möhring,
J. Ranft*
- 567** Subthreshold Fission Cross Section of ^{240}Pu and the Fission Cross Sections of ^{235}U and ^{239}Pu
L. W. Weston, J. H. Todd
- 579** Neutron Total Cross Sections of ^{181}Ta and ^{238}U from 24.3 keV to 1 MeV and Average Resonance Parameters
*Izumi Tsubone,
Yutaka Nakajima,
Yutaka Furuta,
Yukinori Kanda*

TECHNICAL NOTES

- 592** Plasma Energy Deposition from the Nuclear Elastic Scattering of Tritons on Tritons
Joseph J. Devaney

(Continued)

VOLUME 88, NUMBER 4, DECEMBER 1984

CONTENTS

(Continued)

- 594** The Capture Width of the 34.8-keV *s*-Wave Neutron Resonance in ^{27}Al *K. Wisshak, F. Käppeler, G. Reffo*
- 598** On the Effect of Scission Neutrons on $\nu(A)$ Data for $^{252}\text{Cf}(sf)$ *R. L. Walsh, J. W. Boldeman*

BOOK REVIEW

- 601** Principles of Radiation Shielding, Arthur B. Chilton, J. Kenneth Shultis, Richard E. Faw *Lewis V. Spencer*

- 602** **VOLUME 88 AUTHOR AND SUBJECT INDEXES**