

CONTENTS / APRIL 1988-VOL. 81, NO. 1

TECHNICAL PAPERS

FISSION REACTORS

- 7 An Analytical Study of Volatile Metallic Fission Product Release from Very High Temperature Gas-Cooled Reactor Fuel and Core / Susumu Mitake, Futoshi Okamoto
- 13 Bottom Reflooding of Pressurized Water Reactors—Part I: Forced Refloodings and Core Thermal Hydraulics / S. Mostafa Ghiaasiaan, A. Telal Wassel, Murthy S. Divakaruni
- 28 Bottom Reflooding of Pressurized Water Reactors—Part II: Oscillatory Flow During Gravity-Feed Reflooding / S. Mostafa Ghiaasiaan
- 39 The Use of Inherent Reactivity Feedbacks to Improve Fast Reactor Availability / Ralph M. Singer

NUCLEAR SAFETY

- 52 Analysis of Instrument Tube Ruptures in the Zion-1 Pressurized Water Reactor / C. Don Fletcher, Mark A. Bolander
- 63 The Possibility of Local Detonations During Degraded-Core Accidents in the Bellefonte Nuclear Power Plant / Martin P. Sherman, Marshall Berman

NUCLEAR FUELS

78 Fission Product Iodine and Cesium Release Behavior Under Light Water Reactor Accident Conditions / Jack L. Collins, Morris F. Osborne, Richard A. Lorenz, Anthony P. Malinauskas

RADIOACTIVE WASTE MANAGEMENT

- 95 Stability Evaluation for Cement Package Containing Radioactive Waste / Koichi Chino, Fumio Kawamura
- 100 Diffusion and Sorption of Cesium, Strontium, and Iodine in Water-Saturated Cement / Alan Atkinson, Allan K. Nickerson

(Continued)

CONTENTS / APRIL 1988-VOL. 81, NO. 1

(Continued)

MATERIALS

114 Creep Properties of Three Heats of Type 316 Stainless Steel for Elevated Temperature Nuclear Applications / M. D. Mathew, S. Latha, G. Sasikala, S. L. Mannan, P. Rodriguez

TECHNICAL NOTE

HEAT TRANSFER AND FLUID FLOW

122 A Note on Heat and Mass Transfer to a Spray Droplet / Jeremy D. M. Linn, Stephen J. Maskell, Mike A. Patrick

DEPARTMENTS

- 1 Authors
- 126 Book Review