

TECHNICAL PAPERS

FISSION REACTORS

- 133 A "Nonproliferating" Nuclear Fuel for Light Water Reactors / *Yigal Ronen, Yehoshua Kimhi*

NUCLEAR REACTOR SAFETY

- 139 Simulation of the Primary-Secondary Leak Experiment of IAEA's Third Standard Problem Exercise Using the RELAP5/MOD2 and RELAP5/MOD3 Computer Codes / *Y. A. Hassan, Parvez Salim*
- 147 N Reactor Level III Probabilistic Risk Assessment Using NUREG-1150 Methods / *Oliver S. Wang, Garill A. Coles, John E. Kelly, Thomas B. Powers, Thomas E. Rainey, Michael D. Zentner, Gregory D. Wyss, David M. Kunsman, LeAnn Adams Miller, Timothy A. Wheeler, Jeremy L. Sprung, Allen L. Camp*

NUCLEAR FUEL CYCLES

- 169 Studies of the Preparation of Thoria and Thoria-Urania Microspheres Using an Internal Gelation Process / *N. Kumar, R. K. Sharma, V. R. Ganatra, S. K. Mukerjee, V. N. Vaidya, D. D. Sood*

RADIOACTIVE WASTE MANAGEMENT

- 178 *In Situ* Vitrification of Soils Containing Various Metals / *James L. Buel, Richard K. Farnsworth*
- 185 Properties of a Radioactive Waste Pellet Package Using Cement-Glass / *Kiyomi Funabashi, Koichi Chino, Makoto Kikuchi, Susumu Horiuchi, Hiroyuki Tsuchiya*
- 192 The Equilibrium Concept—An Extended Approach to Assess Long-Term Radionuclide Release from Repositories / *Rainer Köster, Günter Rudolph*

HEAT TRANSFER AND FLUID FLOW

- 202 Results of 0.5% Hot-Leg Break Loss-of-Coolant Accident Experiments at ROSA-IV/LSTF: The Effect of Break Orientation / *Hideaki Asaka, Yutaka Kukita, Taisuke Yonomoto, Kanji Tasaka*

(Continued)

CONTENTS / NOVEMBER 1991 –VOL. 96, NO. 2

(Continued)

- 215 Influence of Secondary System Conditions on Steam Generator U-Tube Flow Distribution During Single-Phase Natural Circulation / *Alessandro Annunziato*

TECHNICAL NOTE

NUCLEAR REACTOR SAFETY

- 229 A Water Level-Initiated Decay Energy Cooling System / *Charles W. Forsberg*