

TECHNICAL PAPERS

FISSION REACTORS

- 237 Study of Coolant Activation and Dose Rates with Flow Rate and Power Perturbations in Pool-Type Research Reactors / *Nasir M. Mirza, Sikander M. Mirza, N. Ahmad*
- 248 Evaluation of a Dilute Chemical Decontaminant for Pressurized Heavy Water Reactors / *S. Velmurugan, S. V. Narasimhan, P. K. Mathur, K. S. Venkateswarlu*

NUCLEAR REACTOR SAFETY

- 259 Estimates of Rupture Probabilities for Nuclear Power Plant Components: Expert Judgment Elicitation / *Truong V. Vo, Patrick G. Heasler, Steven R. Doctor, Frederic A. Simonen, Bryan F. Gore*
- 272 The Response of Ex-Core Neutron Detectors to Large- and Small-Break Loss-of-Coolant Accidents in Pressurized Water Reactors / *E. Wilson Okyere, Anthony J. Baratta, William A. Jester*
- 290 Temporary Core Liquid Level Depression During a Cold-Leg Small-Break Loss-of-Coolant Accident: The Effect of Break Size and Power Level / *Yasuo Koizumi, Hiroshige Kumamaru, Yuichi Mimura, Yutaka Kukita, Kanji Tasaka*

NUCLEAR FUEL CYCLES

- 302 Quantitative Fuel Motion Determination with the CABRI Fast Neutron Hodoscope: Evaluation Methods and Results / *Kurt Baumung, Gérard Augier*
- 314 A Model to Predict the Ultimate Failure of Coated Fuel Particles During Core Heatup Events / *Toru Ogawa, Kazuo Minato, Kousaku Fukuda, Masami Numata, Hideshi Miyanishi, Hajime Sekino, Hideo Matsushima, Tadaharu Itoh, Shigeo Kado, Ishio Takahashi*
- 323 High-Temperature Reactor Fuel Fission Product Release and Distribution at 1600 to 1800°C / *Werner Schenk, Heinz Nabielek*

(Continued)

ON THIS COVER

This month's cover is taken from Figs. 18 and 20 of the paper by Okyere et al.

CONTENTS / DECEMBER 1991 –VOL. 96, NO. 3

(Continued)

ENRICHMENT AND REPROCESSING SYSTEMS

- 337 Isotope Separation by Chemical Exchange: A Computer Simulation /
Heinrich R. Obermoller, David A. White

MATERIALS

- 346 Neutron Effects on Borated Stainless Steel / *S. E. Soliman, D. L. Youchison,
A. J. Baratta, T. A. Balliett*

HEAT TRANSFER AND FLUID FLOW

- 353 Operating Margin of Soviet RBMK-1000 Nuclear Power Reactors / *James
M. Adams, Lawrence E. Hochreiter, Gordon E. Robinson*

DEPARTMENTS

- 361 Technical Reviewers
364 Volume 96 Indexes
v Volume 96 Contents