

nuclear technology®

CONTENTS / MAY 1999—VOL. 126, NO. 2

TECHNICAL PAPERS

FISSION REACTORS

- 123 Experimental and Analytical Investigation of the Operation Mode of the Emergency Condenser of the SWR1000 / *Andreas Schaffrath, E. F. Hicken, H. Jaegers, H.-M. Prasser*

REACTOR SAFETY

- 143 Assessment of the Severe Accident Mitigation Features of the European Pressurized Water Reactor by Cooperative Research and Development / *Wolfgang Eglin, Ulrich Krugmann, Horst A. Weisshäupl, Werner Scholtyssek*

FUEL CYCLE AND MANAGEMENT

- 153 FORMOSA-B: A Boiling Water Reactor In-Core Fuel Management Optimization Package / *Brian R. Moore, Paul J. Turinsky, Atul A. Karve*

THERMAL HYDRAULICS

- 170 Evaluating Code Uncertainty—I: Using the CSAU Method for Uncertainty Analysis of a Two-Loop PWR SBLOCA / *Andrej Prošek, Borut Mavko*
- 186 Evaluating Code Uncertainty—II: An Optimal Statistical Estimator Method to Evaluate the Uncertainties of Calculated Time Trends / *Andrej Prošek, Borut Mavko*

RADIATION

- 196 Studies on the Shielding Properties of Polyboron and Ilmenite-Magnetite Concrete Using a Reactor Neutron Beam / *F. U. Ahmed, S. I. Bhuiyan, A. S. Mollah, M. R. Sarder, M. Q. Huda, M. Rahman, M. A. W. Mondal*

REPROCESSING

- 205 Self-Excited Plutonium X-Ray Emission in Plutonium-Bearing Materials / *Franco Vittorio Frazzoli, Romolo Remetti, Sergio Guardini, Valeri Maiorov*

MATERIALS FOR NUCLEAR SYSTEMS

- 215 The Volatility of Iodine from Irradiated Iodide Solutions in the Presence or Absence of Painted Surfaces: Modeling Work on the IODE Code at IPSN / *Christian Poletiko, Didier Jacquemain, Claude Hueber*

(Continued)

CONTENTS / MAY 1999—VOL. 126, NO. 2

(Continued)

TECHNICAL NOTES

REACTOR OPERATIONS AND CONTROL

- 229 Analysis of the Mass Transfer Characteristics of a Chemical Addition System /
Byong Hoon Chang, Chang Kyu Chung, Anthony F. Mills

REPROCESSING

- 237 An Empirical Equation for Vapor Pressure of Tri-*n*-Butyl Phosphate in the
Temperature Range of 273.15 to 562.15 K / *Shekhar Kumar, S. B. Koganti*

DEPARTMENT

- 240 Letters to the Editor