

### TECHNICAL PAPERS

#### REACTOR SAFETY

- 1 Beyond-Design-Basis-Accidents Passive Containment-Cooling Spray System / *Aly Karameldin, Hassan M. Elsavvy Temraz, Nady Attia Ibrahim*

#### FUEL CYCLE AND MANAGEMENT

- 14 Development of a Fast Breeder Reactor Fuel Bundle-Duct Interaction Analysis Code—BAMBOO: Analysis Model and Validation by the Out-of-Pile Compression Test / *Tomoyuki Uwaba, Kosuke Tanaka*
- 24 Monitors for the Prediction of Alternate Nuclear Material Concentrations for Pressurized Water Reactor Spent Fuel / *William S. Charlton, William D. Stanbro*

#### THERMAL HYDRAULICS

- 37 Assessment and Application of the ROSE Code for Reactor Outage Thermal-Hydraulic and Safety Analysis / *Thomas K. S. Liang, Fu-Kuang Ko, Liang-Che Dai*
- 50 Realistic Small- and Intermediate-Break Loss-of-Coolant Accident Analysis Using WCOBRA/TRAC / *Stephen M. Bajorek, Nikolay Petkov, Katsuhiko Ohkawa, Robert M. Kemper, Arthur P. Ginsberg*

#### RADIATION PROTECTION

- 63 The Shielding Effect of Iron Louvers for Neutrons and Gamma Rays / *Keigo Mio, Tetsuo Kurashige, Toshiso Kosako*

#### DECONTAMINATION/DECOMMISSIONING

- 76 Induced Radioactivity and Waste Classification of Reactor Zone Components of the Chernobyl Nuclear Power Plant Unit 1 After Final Shutdown / *Boris K. Bylkin, Galina B. Davydova, Yuri A. Zverkov, Alexander V. Krayushkin, Yuri A. Neretin, Anatoly V. Nosovsky, Valery A. Seyda, Steven M. Short*
- 89 Development of the Process for the Recovery and Conversion of  $^{233}\text{UF}_6$  Chemisorbed in NaF Traps from the Molten Salt Reactor Remediation Project / *Guillermo D. Del Cul, Alan S. Icenhour, Darrell W. Simmons*

#### RADIOACTIVE WASTE MANAGEMENT AND DISPOSAL

- 99 Unfavorable Conditions for Nuclear Criticality Following Disposal of Transuranic Waste at the Waste Isolation Pilot Plant / *Rob P. Rechar, Lawrence C. Sanchez, Holly R. Trelue, Christine T. Stockman*
- 130 A Critical Review of the Practice of Equating the Reactivity of Spent Fuel to Fresh Fuel in Burnup Credit Criticality Safety Analyses for PWR Spent-Fuel Pool Storage / *J. C. Wagner, C. V. Parks*