

TECHNICAL PAPERS

FISSION REACTORS

- 1 Pellet Power Ratio in a Pellet-Suspension Fission Core / *D. R. Kingdon, A. A. Harms*
- 9 Study on Reactivity Worth of Beryllium by $(n, 2n)$ and (γ, n) Reactions / *Tsuyoshi Misawa, Seiji Shiroya, Keiji Kanda*

NUCLEAR REACTOR SAFETY

- 19 Assessment of the Simulation Capability of RELAP5/MOD3 Compared with IIST Tests for Loss of the Residual Heat Removal System During Midloop Operation / *Yuh-Ming Ferng, Chien-Hsiung Lee*
- 34 A Model for Nonvolatile Fission Product Release During Reactor Accident Conditions / *Brent J. Lewis, Bernard André, Gérard Ducros, Denis Maro*
- 55 Passive Cooling System with Temperature Control for Reactor Containments / *Charles W. Forsberg, James C. Conklin*
- 66 RELAP5/MOD3 Simulation of the Station Blackout Experiment Conducted at the IIST Facility / *Yuh-Ming Ferng, Tay-Jian Liu, Chien-Hsiung Lee*

NUCLEAR FUEL CYCLES

- 78 Boron-Nitride-Coated Nuclear Fuels / *Güngör Gündüz, İbrahim Uslu, Hasan H. Durmazucar*
- 91 Improvements in Boiling Water Reactor Uranium Utilization and Operating Experience with Burnup Increase / *Takaaki Mochida, Katsumasa Haikawa, Jun-ichi Yamashita, Akira Nishimura, Yutaka Iwata, Shiroh Arai*

ENRICHMENT AND REPROCESSING SYSTEMS

- 108 An Approach for Evaluating Equilibrium and Rate Constants for the Reaction of Np(V) with Nitric Acid in the Purex Process Using Process Data / *Shunji Homma, Mitsuhiro Takanashi, Jiro Koga, Shiro Matsumoto, Masaki Ozawa*

RADIOACTIVE WASTE MANAGEMENT

- 115 Preliminary Performance Assessment of the Engineered Barriers for a Low- and Intermediate-Level Radioactive Waste Repository / *Won-Jin Cho, Jae-Owan Lee, Pil-Soo Hahn, Kwan-Sik Chun*

HEAT TRANSFER AND FLUID FLOW

- 127 Heat Removal Characteristics of a Primary Containment Vessel External Spray / *Yoshiyuki Kataoka, Tadashi Fujii, Michio Murase*