

TECHNICAL PAPERS

FISSION REACTORS

- 265** High-Performance Supercritical Carbon Dioxide Cycle for Next-Generation Nuclear Reactors / *Vaclav Dostal, Pavel Hejzlar, Michael J. Driscoll*
- 283** The Supercritical Carbon Dioxide Power Cycle: Comparison to Other Advanced Power Cycles / *Vaclav Dostal, Pavel Hejzlar, Michael J. Driscoll*

REACTOR SAFETY

- 302** Behavior of VVER Fuel Rods Tested Under Severe Accident Conditions in the CODEX Facility / *Zoltán Hózer, László Maróti, Péter Windberg, Lajos Matus, Imre Nagy, György Gyenes, Márta Horváth, Anna Pintér, Márton Balaskó, Aladár Czitrovszky, Péter Jani, Attila Nagy, Oleg Prokopiev, Béla Tóth*

FUEL CYCLE AND MANAGEMENT

- 318** Reduction in Workload of BWR In-Core Fuel Shuffling by New Optimization Methods / *Akio Yamamoto, Masayuki Toujou, Kentarou Komori, Yasunori Kitamura, Yoshihiro Yamane*

THERMAL HYDRAULICS

- 328** Analysis of the Bubbly-Churn Regime Transition in a Scaled Model Boiling Water Reactor / *Khaled Meftah, Arthur E. Ruggles*
- 335** Heat Transfer in a Supercritical Fluid: Classification of Heat Transfer Regimes / *Kyoung Woo Seo, Moo Hwan Kim, Mark H. Anderson, Michael L. Corradini*

RADIATION PROTECTION

- 350** The Effect of Material Homogenization in Calculating the Gamma-Ray Dose from Spent PWR Fuel Pins in an Air Medium / *T. H. Trumbull, D. R. Harris*

ENRICHMENT

- 361** Proliferation-Resistant SIGMA Uranium Enrichment Plants / *M. E. Rivarola, P. C. Florido, D. O. Brasnarof, K. H. Kyung, L. Juanicó, J. Bergallo, J. Gonzalez, H. Daverio*

RADIOACTIVE WASTE MANAGEMENT AND DISPOSAL

- 374** Deterministic Performance Assessment for a Conceptual Repository for Low- and Intermediate-Level Wastes in Korea / *Daisuke Kawasaki, Joonhong Ahn, Chang-Lak Kim, Jin-Beak Park*

(Continued)

CONTENTS / JUNE 2006—VOL. 154, NO. 3

(Continued)

DEPARTMENTS

389 Volume 154 Indexes

v Volume 154 Contents