

TECHNICAL PAPERS

FISSION REACTORS

- 129 Sensitivity and Uncertainty Analysis of Integral Physics Parameters in High-Conversion Reactor Systems / *John R. White, Thomas F. DeLorey*
- 148 Corrosion Product Radionuclide Buildup in Fast Flux Test Facility Heat Transport System Cells / *William F. Brehm, Robert L. Simons*
- 156 Xenon Dynamics and Related Parameters in the Taiwan Research Reactor / *Shih-Jen Wang, Ming-Song Lin*

NUCLEAR REACTOR SAFETY

- 162 Effect of Flushing Boron During a Boiling Water Reactor Anticipated Transient Without Scram / *Dragan Mirkovic, David J. Diamond*

NUCLEAR FUEL CYCLES

- 175 Theory and Verification of a Fuel Rod Mechanics Model Based on a Two-Dimensional Finite Element Method with Consideration of Fuel/Cladding Contact and Friction / *Klaus L. Nissen*
- 193 A Simple Nondestructive Measurement System for Spent-Fuel Management / *Hermann Würz*

ENVIRONMENT AND REPROCESSING SYSTEMS

- 207 Analysis of Cylindrical and Annular Pulsed Columns with Different Internal Plates in the Purex Process / *Masahiro Nabeshima*

MATERIALS

- 219 Elaborated Constitutive Equations for Structural Analysis for Creep, Swelling, and Damage Under Irradiation / *S. Murakami, M. Mizuno*

HEAT TRANSFER AND FLUID FLOW

- 228 Thermal-Hydraulic Systems Safety Analysis to Support the Design Process for the Advanced Neutron Source Reactor / *C. D. Fletcher, L. S. Ghan*

(Continued)

ON THIS COVER

This month's cover is taken from Fig. 1 of the paper by Nabeshima.

CONTENTS / AUGUST 1991 –VOL. 95, NO. 2

(Continued)

TECHNICAL NOTE

HEAT TRANSFER AND FLUID FLOW

- 247 The Probability Density Function of the Total Departure from Nucleate Boiling Ratio / *Ross C. Anderson*

DEPARTMENT

- 251 Book Review