

CONTENTS / APRIL 1989-VOL. 85, NO. 1

TECHNICAL PAPERS

FISSION REACTORS

- 7 Point Beach Nuclear Plant Secondary In-Service Inspection Project and Badness Factor Program / Ronald R. Winget
- 12 Design and Development of a Personal-Computer-Based Reactivity Meter for a Research Reactor / Stephen E. Binney, Alla J. M. Bakir

NUCLEAR SAFETY

- 22 Human Error Analysis Related to Structural Reliability / Sadao Hattori, Hiroshi Sasakawa, Norihiko Handa
- 33 One-Dimensional Considerations on the Initial Phase of the Chernobyl Accident / Timo A. Vanttola, Markku K. Rajamäki

FUEL CYCLES

- 48 Results and Analyses of Dry Rod Consolidation Using Westinghouse Spent-Fuel Assemblies / Krishna Vinjamuri, Edgar M. Feldman, Carlan K. Mullen, Robert C. Hill
- 57 Prediction of Maximum Allowable Temperatures for Dry Storage of Zircaloy-Clad Spent Fuel in Inert Atmosphere / Bryan A. Chin, E. Robert Gilbert

CHEMICAL PROCESSING

66 A Process for Decontaminating Stainless Steels to Release Limits / Aamir Husain

NUCLEAR FUELS

74 Measurement of the Oxidation of Spent Fuel Between 140 and 225°C / Robert E. Woodley, Robert E. Einziger, H. Craig Buchanan

(Continued)

CONTENTS / APRIL 1989-VOL. 85, NO. 1

(Continued)

RADIOACTIVE WASTE MANAGEMENT

89 SYNROC-FA Waste Form for Immobilization of Amine High-Level Liquid Waste: Process Development and Product Characterization / T. Sampat Sridhar, Ahmad G. Solomah

HEAT TRANSFER AND FLUID FLOW

98 A Transient Model for Predicting Nonhomogeneous Nonequilibrium Critical Two-Phase Flows / S. M. Sami, T. Duong

TECHNICAL NOTE

RADIOACTIVE WASTE MANAGEMENT

109 Fabrication of Curium-Doped SYNROC for an Alpha Radiation Stability Test / Hisayoshi Mitamura, Seiichiro Matsumoto, William J. Buykx, Shingo Tashiro

DEPARTMENT

1 Authors