

CONTENTS / SEPTEMBER 1985-VOL. 70, NO. 3

TECHNICAL PAPERS

FISSION REACTORS

- 301 Effect of Reducing Fuel Enrichment on the Void Reactivity Part I: Experimental Study / Hiroshi Fukui, Kaichiro Mishima, Seiji Shiroya, Masatoshi Hayashi, Keiji Kanda, Yasuhide Senda
- 318 Effect of Reducing Fuel Enrichment on the Void Reactivity Part II: Analytical Study / Yasuhide Senda, Seiji Shiroya, Masatoshi Hayashi, Keiji Kanda
- 335 Analysis of Upper Plenum Level Oscillatory Phenomena by TRAC-BD1 / N. Abe, M. Kato, H. Nagasaka
- 343 Two Identification Techniques for Disturbance Diagnosis in Nuclear Power Plants / Jiro Wakabayashi, Shin-ichi Tashima, Akio Gofuku
- 354 BGUCORE A Computational System for Neutronic Analysis of a Pressurized Water Reactor Core / Alex Galperin, Meir Segev, Anatoly Goldfeld, Yonathan Karni

NUCLEAR SAFETY

- 364 Bruce Nuclear Generating Station B Rapid Cooldown Test and Validation of Simulation Model / Y. F. Chang, P. C. Watson, M. D. Langan, P. Sermer
- 376 A Chemical Equilibrium Estimate of the Aerosols Produced in an Overheated Light Water Reactor Core / Robert P. Wichner, Roger D. Spence

CHEMICAL PROCESSING

394 Correlation Functions for the Distribution Coefficients of U(IV) and Pu(III) lons Between Aqueous Nitric Acid and 30% TBP in an Aliphatic Diluent / John F. Geldard, Leigh Phillips, Adolph L. Beyerlein

NUCLEAR FUELS

401 Direct Pressing: A New Method of Fabricating MX Fuel Pellets / Karl Richter, Jean Gueugnon, Gerard Kramer, Carlo Sari, Paul Werner

(Continued)

CONTENTS / SEPTEMBER 1985-VOL. 70, NO. 3

(Continued)

RADIOACTIVE WASTE MANAGEMENT

- **408** Sodium Cleaning Procedures for PEC Prototype Mechanisms / *Roberto Caponetti*
- **424** Removal of Radioactive Sodium from Experimental Breeder Reactor-II Components and Conversion to a Disposable Solid Waste: Alcohol Recovery / John R. Krsul, Robert A. Washburn
- 433 Critique of the National Academy of Sciences Study of the Isolation System for Geologic Disposal of Radioactive Waste / Bernard L. Cohen

DEPARTMENTS

- 295 Authors
- 441 Volume 70 Indexes
- v Volume 70 Contents