

CONTENTS / MAY 1985-VOL. 69, NO. 2

GAS CORE REACTOR RESEARCH PROGRAM AT THE UNIVERSITY OF FLORIDA

129 Preface: Gaseous Core Reactors / Nils J. Diaz

TECHNICAL PAPERS

- 134 Gas Core Reactor Neutronics—Theoretical Modeling and Experimental Verification / Edward T. Dugan, Nils J. Diaz, Edward E. Carroll, Jr., H. M. Forehand
- 154 A Study of Corrosion-Resistant Materials for Pulsed Gaseous Core Nuclear Systems / E. Dow Whitney, Dae Joon Kim, Dennis S. Tucker
- 161 Thermophysical Properties of UF₆-He Mixtures Relevant to Circulating Gas Core Reactor Systems / Calvin C. Oliver, Edward T. Dugan

NUCLEAR SAFETY

170 Transfer of Molecular Fission Products Between a Gas and a Surface, with Application to Iodine Retention in a Granular Bed / Hans S. Häggblom

CHEMICAL PROCESSING

178 Decontamination of Carbonate Containing Process Streams in Nuclear Fuel Reprocessing by Ion Exchange Chromatography / Werner Faubel, Sameh A. Ali

NUCLEAR FUELS

- 186 The Behavior of Breached Boiling Water Reactor Fuel Rods on Long-Term Exposure to Air and Argon at 598 K / R. Kohli, D. Stahl, V. Pasupathi, A. B. Johnson, Jr., E. R. Gilbert
- 198 FCODE-BETA/SS: A Fuel Performance Code for Stainless Steel Clad Pressurized Water Reactor Fuel / Richard W. Smith, Gary S. Was

(Continued)

CONTENTS / MAY 1985-VOL. 69, NO. 2

(Continued)

HEAT TRANSFER AND FLUID FLOW

210 Subchannel Analysis Program for Boiling Water Reactor Fuel Bundles Based on Five Conservation Equations of Two-Phase Flow / Yasunori Bessho, Sadao Uchikawa

ANALYSES

218 Multiregion Concentration Diffusion Coefficient Determination Using Davidon's Variable Metric Method / Clarence E. Lee, Joe W. Durkee

TECHNICAL NOTE

NUCLEAR FUELS

236 The International DEMO-RAMP-II Project at Studsvik / H. Mogard, H. Knaab, U. Bergenlid, G. Lysell

DEPARTMENT

123 Authors