

CONTENTS / AUGUST 1983-VOL.62, NO. 2

TECHNICAL PAPERS

CHEMICAL PROCESSING

133 The Effect of Salt Composition on Reductive Extraction of Some Typical Elements from Molten LiF-BeF₂ Salt into Liquid Bismuth / *Hirotake Moriyama, Kunimitsu Yajima, Yasunobu Tominaga, Kimikazu Moritani, Jun Oishi*

NUCLEAR FUELS

- 139 The Current Status and Perspectives of Fissile Material Availability in the World Through the Year 2000 / John Jeffrey Stobbs, Antonio Matteo Taormina
- 145 Aqueous Corrosion of Uranium Aluminide Fuel / Krishna Vinjamuri, Richard R. Hobbins

RADIOACTIVE WASTE MANAGEMENT

151 The Effects of Surface Area to Solution Volume on Waste Glass Leaching / L. R. Pederson, C. Q. Buckwalter, G. L. McVay

HEAT TRANSFER AND FLUID FLOW

- 159 Transient Analysis of the Three Mile Island Unit 2 Pressurizer System / Benaissa Baggoura, William R. Martin
- 172 Safety Analysis of the Reactivity Transients Resulting from Water Ingress into a High-Temperature Pebble Bed Reactor / Rahim Nabbi, Wilfried Jahn, Gerhard Meister, Werner Rehm

ECONOMICS

190 Analysis of Decommissioning Costs for Nuclear Power Reactors / David F. Greenwood, Richard K. Westfahl, James W. Rymsha

(Continued)

ON THIS COVER

This month's cover is taken from a figure in the paper by K. Takeuchi and N. Sasamoto, showing a portion of the plan configuration of an (R,θ) model of 1/4 core symmetry for a PWR.

CONTENTS / AUGUST 1983-VOL.62, NO. 2

(Continued)

ANALYSES

- 207 Analysis of Detailed Neutron Fluxes in a PWR Pressure Vessel by Two- and Three-Dimensional PALLAS Transport Codes / Kiyoshi Takeuchi, Nobuo Sasamoto
- 222 A Finite Difference Treatment of Differential Equation Systems with Widely Differing Time Constants / G. Ronald Dalton, Michael T. Gamble
- 227 System Preparation and Fast Neutron Spectra Measurement in a Graphite Stack / Alex Tsechanski, Gad Shani

TECHNICAL NOTE

FUEL CYCLES

238 Modified Fuel Assembly Design for Pressurized Water Reactors with Improved Fuel Utilization / Alex Galperin, Yigal Ronen

DEPARTMENTS

- 127 Authors
- 243 Book Reviews
- 245 Corrigendum