

CONTENTS / NOVEMBER 1988-VOL. 83, NO. 2

TECHNICAL PAPERS

CRITICAL REVIEW

117 Filtered Vented Containment Systems for Light Water Reactors / Harry A.

Morewitz

FISSION REACTORS

- 134 Assessment of Long-Term Reliability of Pressurized Water Reactor Plants Based on Power Generation Statistics (Up to 1987) / Masahiro Matsumura
- 162 Study on Criticality of a Light Water Moderated and Reflected Coupled Core with Highly Enriched Uranium Fuel / Tsuyoshi Misawa, Seiji Shiroya, Keiji Kanda
- 171 Experimental and Theoretical Evidence for a Short Effective Fuel Time Constant in a Boiling Water Reactor / Tim H. J. J. van der Hagen

FUEL CYCLES

182 Secondary Purex Solvent Cleanup: Laboratory Development / James C. Mailen

CHEMICAL PROCESSING

190 Canyon Solvent Cleaning with Activated Alumina / Donald J. Reif

NUCLEAR FUELS

197 Analysis of Mechanical Bowing Phenomena of Fuel Assemblies in Passively Safe Advanced Liquid-Metal Reactors / Per G. Reinhall, Kwanhum Park, Robert W. Albrecht

RADIOACTIVE WASTE MANAGEMENT

205 Improved Treatment/Disposal of Reactive Metals / John B. Rajan, Romesh Kumar, Donald R. Vissers

(Continued)

CONTENTS / NOVEMBER 1988-VOL. 83, NO. 2

(Continued)

ECONOMICS

212 The Economic Impact of the Utilization of Nuclear Power Plant Condensation Heat / Ahmet Bayülken

MATERIALS

216 Characterization of Reaction Gases and Aerosols from Underwater Plasma Arc Cutting Demonstration Tests at Three Mile Island Unit 2 / V. F. Baston, K. J. Hofstetter, Richard F. Karuhn

TECHNICAL NOTE

TECHNIQUES

228 Higher Order Tomographic Filters for Nondestructive Testing Purposes / P. Arora, P. Munshi, R. K. S. Rathore

DEPARTMENTS

- 111 Authors
- 231 Book Review
- 233 Corrigendum