

CONTENTS / MID-DECEMBER 1977—VOL. 36, NO. 3

TECHNICAL PAPERS

REACTORS

- 249 Comparison of Measured and Calculated Nitrogen-16 Activity in Water for Application to Nuclear-Powered Ship Reactor Designs / J. B. Sun, H. D. Warren
- 262 Design Considerations for Large Heterogeneous Liquid-Metal Fast Breeder Reactors / Constantine P. Tzanos, W. P. Barthold
- 275 A Practical Means for Pressure Transducer Response Verification / David G. Cain, Carleton G. Foster
- 285 Energy Optimization of a Cycled Tokamak / Peter S. Martini, Ronald J. Onega

FUEL CYCLES

294 Feasibility Study of Core Management System by Data Communication for Boiling Water Reactors / Hiroshi Motoda, Satoshi Tanisaka, Takashi Kiguchi, Haruo Yonenaga

FUELS

305 Computation Studies of Cladding Relocation Dynamics During Liquid-Metal Fast Breeder Reactor Transient Undercooling Accidents / G. Angerer

ECONOMICS

- 314 Solid Waste as Refuse-Derived Fuel / R. Fred Rolsten, Leon Glaspell, J. P. Waltz
- 328 An Optimal Set of Selected Uranium Enrichments That Minimizes Blending Consequences / Joel A. Nachlas, Harold A. Kurstedt, Jr., John S. Lorber, Jr.

MATERIALS

- 336 Damage Function for the Mechanical Properties of Steels / A. Alberman, J. P. Genthon, L. Salon, G. Allegraud
- 347 Stress-Free Swelling in Type 304 Stainless Steel at High Fluences / T. A. Kenfield, W. K. Appleby, H. J. Busboom

(Continued)

ON THIS COVER

This month's cover is a segment of an LMFBR core, showing blanket elements, adapted by our artist from the paper by Tzanos and Barthold.

CONTENTS / MID-DECEMBER 1977—VOL. 36, NO. 3

(Continued)

353 The Creep-Rupture Properties of a Weld-Overlaid Type 304 Stainless-Steel Forging / R. L. Klueh, D. A. Canonico

TECHNIQUES

368 Fission Rate Measurements with the Makrofol Solid-State Track Recorder / Dariush Azimi-Garakani, John Garnett Williams

DEPARTMENTS

- 243 Authors
- 379 Book Review
- 380 Volume 36 Indexes
- Volume 36 Contents