

CONTENTS / SEPTEMBER 1974—VOL. 23, NO. 3

TECHNICAL PAPERS

REACTORS

- 213 Measurements of Neutron Fluxes in Strongly Absorbing Gaseous Media / *W. Bixby, K. Almenas*
- 222 Triangulation of Local Coolant Boiling by Cross-Correlating Acoustic Noise Signals / *Hideaki Nishihara*

REACTOR SITING

- 233 A Methodology for Power Plant Site Selection at the Reconnaissance Level / *Matthew C. Cordaro, William T. Malloy*

FUELS

- 240 Plutonium Coated Particles Development / *H. Bairiot, L. Aerts, E. Trauwæert, J. Vangeel*
- 256 TRIGA Core Management Model / *W. F. Naughton, M. J. Cenko, S. H. Levine, W. F. Witzig*

MATERIALS

- 273 Carbon Equilibrium Relationships for Austenitic Stainless Steels in a Sodium Environment / *Stuart A. Shiels, Chris Bagnall, Steven L. Schrock*
- 284 Flow Patterns in Sodium Cold Trap Crystallizer / *David H. Lester, Gerald R. Bloom*
- 290 The Influence of Gas Environments on Fatigue Crack Growth Rates in Types 316 and 321 Stainless Steel / *M. W. Mahoney, N. E. Paton*

SHIELDING

- 298 Proton Dose Approximation in Arbitrary Convex Geometry / *John W. Wilson, G. S. Khandelwal*
- 306 Ray Tracing Through Reactor Shields / *O. J. Wallace, N. D. Cook*

INSTRUMENTS

- 318 A Continuous In-Line Monitor for UF_6 Enrichment / *T. D. Reilly, E. R. Martin, J. L. Parker, L. G. Speir, R. B. Walton*

ANALYSIS

- 328 The Measurement of Extremely Low-Level Radioiodine in Air / *N. P. Goldstein, K. H. Sun, J. L. Gonzalez*

TECHNICAL NOTE

INSTRUMENTS

- 337 A Simple Device Using Capacitance Switches for Data Entry in Man-Machine Systems / *Michael Danchak, William R. Moyer, Joseph R. Tatarczuk, Martin Becker*

DEPARTMENTS

- 208 Authors
- 340 Volume 23 Indexes
- iii Volume 23 Contents