

nuclear technology®

CONTENTS / JULY 1974—VOL. 23, NO. 1

TECHNICAL PAPERS

REACTORS

- 5 Experiments of Anomaly Detection System of a Reactor Core / *Y. Ohsawa, K. Kato, R. Oyamada*
- 14 Anomalies of Criticality / *E. D. Clayton*

REACTOR SITING

- 28 Evaluation of Air Traffic Hazards of Nuclear Plants / *Karl Hornyik, John E. Grund*

FUELS

- 38 State-of-the-Art in BWR Rod Bundle Burnout Predictions / *D. Guarino, V. Marinelli, L. Pastori*

MATERIALS

- 53 The Effect of Carbide Precipitation on Fatigue Crack Propagation in Type 316 Stainless Steel / *M. W. Mahoney, N. E. Paton*
- 63 Interactions Between Stressed Zirconium Alloys and Iodine at 300°C / *J. C. Wood*

INSTRUMENTS

- 80 Comparison of Gamma Irradiation Performance of Three Neutron Fission Counters / *L. D. Philipp, L. D. Muhlestein, M. R. Wood*
- 87 Fast Neutron Flux Measurement Using Gas-Flow Techniques / *D. P. Brown, W. G. Spear*

DEPARTMENTS

- 2 Authors
- 94 Book Review