

EXTRACTION OF ENERGY FROM NUCLEAR FUELS WITHOUT REPROCESSING TO SEPARATE PLUTONIUM

TECHNICAL PAPERS

- 137 A Low-Decontamination Approach to a Proliferation-Resistant Fuel Cycle / *J. G. Asquith, L. F. Grantham*
- 149 Coprocessing—An Evaluation of Chemical Reprocessing Without Plutonium Separation / *Meyer Pobereskin, Kenneth D. Kok, William J. Madia*
- 168 Some Plutonium Recycle Program Fuel Cycles Having Reduced Proliferation Characteristics / *Eugene A. Eschbach*
-

REACTORS

- 180 An Investigation of Altered Transverse Transport of Axial Momentum in Coolant Flows During Oscillatory Instabilities / *R. P. Roy, P. K. Jain*
- 185 Investigations of Anticipated Transients Without Reactor Scram and Other Selected Safety Devices / *W. Ullrich, W. Frisch*
- 195 Enrichment Zoning and Control Rod Programming for Reactivity and Power Shape Control / *Constantine P. Tzanos*

FUEL CYCLES

- 207 Benchmark Critical Experiments on High-Enriched Uranyl Nitrate Solution Systems / *Robert E. Rothe, Inki Oh*
- 226 A Computational Study of Benchmark Critical Experiments on High-Enriched Uranyl Nitrate Solution Systems / *Inki Oh, Robert E. Rothe*
- 244 Uranium Requirements for Advanced Fuel Cycles in Expanding Nuclear Power Systems / *S. Banerjee, H. Tamm*

(Continued)

ON THIS COVER

This month's cover is taken from the paper by Robert E. Rothe and Inki Oh and is an isometric of the panel assembly for a plastic reflector.

CONTENTS / DECEMBER 1978—VOL. 41, NO. 2

(Continued)

TECHNICAL NOTE

REACTORS

- 252** Analyzing Containment Leakage from a Sodium Fire by the Response Surface Method / *Lucy W. Person*

DEPARTMENT

- 133** Authors