

CONTENTS / OCTOBER 1980—VOL. 50, NO. 3

TECHNICAL PAPERS

REACTORS

- 197 The Effect of Accidental Steam Entry on Gas-Cooled Fast Reactor Integral Neutronics Parameters / *S. K. Bhattacharyya, J. A. Morman, R. G. Bucher, D. M. Smith, W. R. Robinson, E. F. Bennett*
- 219 Parametric Study of Radioactive Release from a Breached Containment / *A. Kenigsberg, D. Hasan, E. Elias*

REACTOR SITING

- 225 TREAT Test E8 Simulating a Liquid-Metal Fast Breeder Reactor β 3/s Overpower Accident with Irradiated Fast Test Reactor Type Fuel / *Richard Simms, Robert K. Lo, William F. Murphy, Alan B. Rothman, George S. Stanford*

FUEL CYCLES

- 242 An Evaluation of the Plutonium Denaturing Concept as an Effective Safeguards Method / *Carolyn D. Heising-Goodman*

FUELS

- 252 Using Fuel Performance to Determine Operating Limit Uncertainty Allowance / *John F. Carew, David J. Diamond*
- 257 An Evaluation of Fuel Motion in Recent TREAT Experiments with Liquid-Metal Fast Breeder Reactor Fuel / *Richard Simms*

MATERIALS

- 267 To the Corrosion of Austenitic Steel in Sodium Loops / *M. Schad*
- 289 Application of a Sodium Austenitic Corrosion Model to a Fuel Rod / *M. Schad*
- 298 One-Dimensional Penetration of Molten UO_2 into Substrate Limestone Concrete / *R. Farhadieh, W. H. Gunther*

(Continued)

ON THIS COVER

This month's cover is taken from a figure in the paper by R. Simms et al. and is the transverse test section of a fuel-column region.

CONTENTS / OCTOBER 1980—VOL. 50, NO. 3

(Continued)

INSTRUMENTS

- 307** A Thermal Neutron Coincidence Counting System / *B. H. Erkkila, R. S. Marshall*

DEPARTMENTS

- 193** Authors
- 314** Book Review
- 315** Volume 50 Indexes
- v** Volume 50 Contents