

# **CONTENTS** / MARCH 1983—VOL. 60, NO. 3

# LWR CONTROL MATERIALS—I AND II

343 Editor's Note / Morton E. Wacks

## **TECHNICAL PAPERS**

- 344 Fabrication Development and Application of an Annular Al<sub>2</sub>O<sub>3</sub>·B<sub>4</sub>C Burnable Absorber / Kenneth C. Radford, Bruce M. Argall, Herbert W. Keller, Richard C. Goodspeed
- 352 A Comparison of Gadolinia and Boron for Burnable Poison Applications in Pressurized Water Reactors / Lester Goldstein, Alfred A. Strasser
- 362 Operational Experience with and Postirradiation Examinations on Boiling Water Reactor Control Rods / Norbert Eickelpasch, Reinhard W. Seepolt, Johann Müllauer, Werner Spalthoff

#### **FISSION REACTORS**

367 Deposition of a Radioactive Corrosion Product in a High-Pressure and High-Temperature Water Loop and Its Decontamination / Hiromi Kanbe, Tadashi Inoue, Toshi Tomizawa, Hiroaki Kōyama, Hiroharu Itami

#### **NUCLEAR SAFETY**

379 RELAP4 Analysis of the Loss-of-Coolant Transients for a Low Pressure/Low Temperature Research Reactor / Gary A. Hughes, Sudarshan K. Loyalka, Gerald A. Schlapper

#### **CHEMICAL PROCESSING**

395 The Effects of Zirconium on the Dissolution Rate of Thoria in Nitric-Hydrofluoric Acid Solutions / O. K. Tallent, James C. Mailen, David O. Campbell, S. R. Buxton

#### **NUCLEAR FUELS**

**406** An Advanced Method for Transient Temperature Calculation in Fuel Element Structural Analysis / K. Lassmann, Timm Preusser

(Continued)

# CONTENTS / MARCH 1983-VOL. 60, NO. 3

## (Continued)

**420** Predicted and Observed Scatter in the Fuel Rod Temperature of Replicate Rods During Irradiation / *Mitchel E. Cunningham, Donald D. Lanning* 

#### **TECHNIQUES**

430 The Effect of Gamma-Ray Energy on the Sensitivity of a Westinghouse Postaccident Gamma Ion Chamber / Norman P. Goldstein, William H. Todt, Alex D. Service

# **DEPARTMENTS**

- 337 Authors
- 439 Book Reviews
- 444 Volume 60 Indexes
- v Volume 60 Contents