

### TECHNICAL PAPERS

#### CRITICALITY SAFETY

- 219** Representing Nuclear Criticality Excursion Experiment Data by an Artificial Neural Network / *Peter L. Angelo*

#### REACTOR SAFETY

- 241** Generation of Graphite Particles by Sliding Abrasion and Their Characterization / *Raymond S. Troy, Robert V. Tompson, Tushar K. Ghosh, Sudarshan K. Loyalka, Nidia C. Gallego*

#### FUEL CYCLE AND MANAGEMENT

- 258** Influence of Carbon Nanotube Dispersion in UO<sub>2</sub>-Carbon Nanotube Ceramic Matrix Composites Utilizing Spark Plasma Sintering / *Andrew Cartas, Haitang Wang, Ghatu Subhash, Ronald Baney, James Tulenko*

#### THERMAL HYDRAULICS

- 268** Turbine Bypass, Mass Inventory, and Mixed-Mode Generator Power Control of S-CO<sub>2</sub> Recompression Cycle / *Alexander Heifetz, Richard Vilim*
- 278** Conceptual Design of Passive Containment Cooling System for APR-1400 Using Multipod Heat Pipe / *Gyeongho Nam, Junseok Park, Sangnyung Kim*

#### REPROCESSING

- 294** Influence of Solution Chemistry on the Selective Adsorption of Uranium and Thorium onto Activated Carbon / *S. M. Yakout*

#### RADIOISOTOPES

- 301** Microfluidic-Based Sample Chips for Radioactive Solutions / *J. L. Tripp, J. D. Law, T. E. Smith, V. J. Rutledge, W. F. Bauer, R. D. Ball, P. A. Hahn*

# CONTENTS / MARCH 2015—VOL. 189, NO. 3

(Continued)

## MATERIALS FOR NUCLEAR SYSTEMS

- 312** Radial Density Distribution in Irradiated FBR MOX Fuel Pellets /  
*Akihiro Ishimi, Kozo Katsuyama, Hirofumi Nakamura, Takeo Asaga,  
Hirotaka Furuya*

## DEPARTMENTS

- 318** Volume 189 Indexes  
v Volume 189 Contents