

nuclear technology®

CONTENTS / MAY 2009—VOL. 166, NO. 2

TECHNICAL PAPERS

THERMAL HYDRAULICS

- 121 Thermophoretic Deposition in a Cylindrical Tube: Computations and Comparison with Experiments / *Veera R. Gutti, Sudarshan K. Loyalka*
- 134 Evaluation of the Decay Heat Limits in Electrorefiners for Reprocessing Spent Metallic Fuels / *Tsuguyuki Kobayashi*
- 146 Analysis of Low-Pressure ECC Injection Bypass of an ABWR During a Feedwater Line Break with RELAP5-3D/K / *Thomas K. S. Liang, Chung-Yu Yang, Liang-Che Dai*

NUCLEAR PLANT OPERATIONS AND CONTROL

- 156 Low-Power Chirp Spread Spectrum Signals for Wireless Communication Within Nuclear Power Plants / *Abdullah Kadri, Raveendra K. Rao, Jin Jiang*

REPROCESSING

- 170 A Conceptual Process Study for Recovery of Uranium Alone from Spent Nuclear Fuel by Using High-Alkaline Carbonate Media / *Kwang-Wook Kim, Dong-Yong Chung, Han-Bum Yang, Jea-Kwan Lim, Eil-Hee Lee, Kee-Chan Song, Kyuseok Song*
- 180 Integrated Efficiency Test for Pyrochemical Fuel Cycles / *S. X. Li, D. Vaden, B. R. Westphal, G. L. Frederickson, R. W. Benedict, T. A. Johnson*

RADIATION MEASUREMENTS AND INSTRUMENTATION

- 187 Decreasing the Detection Limit of Copper for the Instrumental Neutron Activation Analysis by Measuring the Activity of ^{64}Cu Isotope from the Annihilation Peak / *Nader M. A. Mohamed*

TECHNICAL NOTE

THERMAL HYDRAULICS

- 197 Effect of Mass Flow Rate on the Convective Heat Transfer Coefficient: Analysis for Constant Velocity and Constant Area Case / *Piyush Sabharwall, Vivek Utgikar, Fred Gunnerson*

BOOK REVIEW

- 201 Decommissioning and Radioactive Waste Management by A. Rahman / *William R. Roy*