

Nuclear Technology

VOLUME 193 · NUMBER 2 · FEBRUARY 2016

Contents

TECHNICAL PAPERS

- 219** Economic Analysis of Complex Nuclear Fuel Cycles with NE-COST
*Francesco Ganda, Brent Dixon, Edward Hoffman, Taek K. Kim,
Temitope Taiwo, Roald Wigeland*
- 234** A Steady-State Thermal-Hydraulic Analysis Method for Prismatic High-Temperature Gas-Cooled Reactors
A. J. Huning, S. Garimella, F. Rahnema
- 247** RPV Depressurization Strategy Analysis for Chinshan Nuclear Power Plant by Using MAAP5
Yu-Huai Shih, Te-Chuan Wang
- 259** Modernization and Capability Investigation of the MATRIX Electromagnetic Pump Analysis Code
Seth Strege, Serkan Yilmaz, Pradip Saha, Eric P. Loewen
- 276** Loose Parts Localization Delay Calculation Method Based on CWT and Hilbert Envelope
Li-Xian Fang, Dong-Shan Zhao, Tian-Tian Ji, Fu Zeng, Wei Zhang
- 287** Lattice Parameter Behavior with Different Nd and O Concentrations in $(U_{1-y}Nd_y)O_{2\pm x}$ Solid Solution
Seung Min Lee, Travis W. Knight, Stewart L. Voit, Rozaliya I. Barabash
- 297** Chemical Durability of Gamma-Irradiated Glass Fibrous Insulation
*Mária Chromčíková, Jana Vokelová, Jaroslava Michálková, Marek Liška,
Jan Macháček, Ondrej Gedeon, Vojtech Soltész*
- 306** Evaluation of Corrosion Inhibitors for Carbon Steel and Type 304 Stainless Steel in Nitrilotriacetic Acid Medium at High Temperature
Valil S. Sathyaseelan, Appadurai L. Rufus, Sankaralingam Velmurugan
- 318** A Concept for an Emergency Countermeasure Against Radioactive Wastewater Generated in Severe Nuclear Accidents Like the Fukushima Daiichi Disaster
*Kwang-Wook Kim, Keun-Young Lee, Eil-Hee Lee, Yeji Baek,
Dong-Yong Chung, Jei-Kwon Moon*

—continued—

Contents continued

VOLUME 193 · NUMBER 2 · FEBRUARY 2016

TECHNICAL NOTE

- 330** Material Irradiation Technology Using Capsules at HANARO
Man Soon Cho, Kee Nam Choo, Seong Woo Yang

BOOK REVIEW

- 340** *Measurement & Detection of Radiation*, 4th edition, by Nicholas Tsoulfanidis
and Sheldon Landsberger
Reviewer: Joy L. Rempe