Nuclear Technology

VOLUME 210 · NUMBER 5 · MAY 2024



Contents

RESEARCH ARTICLES

- 781 Impact Analysis of a Commercial Airplane Over a Nuclear Spent Fuel Dry Storage Cask Edgar Hernández-Palafox, Pablo Ruiz-López, Luis Héctor Hernández Gómez, Alejandra Armenta-Molina, Gilberto Soto-Mendoza, Juan Alfonso Beltrán-Fernández, Luis Alberto Arenas-Magos
- 795 Attractiveness of Fissile Material in Nuclear Wastes from Different Fuel Cycles

 Milos I. Atz, Massimiliano Fratoni
- 814 Validation of the Hybrid Turbulence Model in Detailed Thermal-Hydraulic Analysis Code SPIRAL for Fuel Assembly Using Sodium Experiments Data of 37-Pin Bundles Ryuji Yoshikawa, Yasutomo Imai, Norihiro Kikuchi, Masaaki Tanaka, Hiroyuki Ohshima
- 836 Construction of the Dynamic Model and Control System for the Canadian Supercritical Water—Cooled Reactor Power Plant

 Huirui Han, Chao Zhang
- 850 Exhaustive Test Case Generation for Nuclear Safety Software Based on the Software Logic Model

 Sang Hun Lee, Seung Jun Lee, Sung Min Shin, Eun-Chan Lee, Hyun Gook Kang
- 868 Artificial Intelligence Detection System of Radioactive Nanocomposites in Liquid-Filled Containers for Nuclear Security

 Elham Gharibshahi, Miltos Alamaniotis
- 884 Evaluation of Molten Corium Spreading and Sedimentation Behaviors Within Primary Containment Vessel in Unit 3 of Fukushima Daiichi Nuclear Power Plant Toward the Best Prediction of Fuel Debris Distribution

Ryo Yokoyama, Masahiro Kondo, Shunichi Suzuki, Christophe Journeau, Marco Pellegrini, Koji Okamoto

- 906 A Semi-Empirical Correlation for the Onset of Density Wave Oscillations in a Helical Coil Steam Generator José N. Reyes, Jr.
- 919 REMADA: An Emergency Decision-Making Software for Radiation Dose Estimation of Mitigation Tasks in a Reactor Building During Severe Nuclear Accidents

 Chunsen Shi, Jun Li, Jianxiang Zheng, Jian Zhang, Liuxuan Cao, Huifang Miao

—continued—

https://www.ans.org

Contents continued

VOLUME 210 · NUMBER 5 · MAY 2024

NOTE

933 Comparison of Neutron Radiation Response of Conventionally Wrought Versus Additive Manufacturing Production Methods in Alloy 625

V. O'Donnell, X. He, T. Keya, G. Harvill, M. Andurkar, B. C. Prorok, S. M. Thompson, J. Gahl

