Nuclear Science and Engineering

VOLUME 194 · NUMBER 3 · MARCH 2020

Contents

CRITICAL REVIEW

169 Review of Progress in Coated Fuel Particle Performance Analysis *Nairi Baghdasaryan, Tomasz Kozlowski*

TECHNICAL PAPERS

- **181** Radiation Dose Analysis in Criticality Accident of Fuel Debris in Water *Kodai Fukuda, Delgersaikhan Tuya, Jun Nishiyama, Toru Obara*
- **190** Adaptive Reweighted Variance Estimation for Monte Carlo Eigenvalue Simulations *Lei Jin, Kaushik Banerjee*
- **207** Spectroscopy of High-Intensity Bremsstrahlung Using Compton Recoiled Electrons C. V. Midhun, M. M. Musthafa, Shaima Akbar, Swapna Lilly Cyriac, S. Sajeev, Antony Joseph, K. C. Jagadeesan, S. V. Suryanarayana, S. Ganesan
- **213** Ensuring Criticality Safety of vSMR Core During Transport Based on Its Temperature Reactivity

Rei Kimura, Kazuhito Asano

221 Validation of Unresolved Neutron Resonance Parameters Using a Thick-Sample Transmission Measurement

Jesse M. Brown, R. C. Block, A. Youmans, H. Choun, A. Ney, E. Blain, D. P. Barry, M. J. Rapp, Y. Danon

TECHNICAL NOTE

232 A Comparison Between the Embedded Self-Shielding Method and the Enhanced Neutron Current Method Based on the Equivalent Pin Cell Model on the Irregular Fuel Lattice Problem

Qian Zhang, Liang Liang, Qiang Zhao, Zhijian Zhang, Hongchun Wu, Liangzhi Cao