

# Nuclear Science and Engineering

VOLUME 196 · NUMBER 3 · MARCH 2022

## Contents

### TECHNICAL PAPERS

- 235** Transport Calculation of the Multiplicity Moments for Cylinders  
*Imre Pázsit, Victor Dykin*
- 250** Analytical Discrete Ordinates Solution for a 1D Model of Particle Transport in Ducts that Includes Wall Migration  
*R. D. M. Garcia*
- 276** Modeling Interface Debonding in Coated Fuel Particles with BISON  
*Daniel Schappel, Giovanni Pastore, Kurt A. Terrani*
- 285** Experimental Investigation of the Friction Factor of Wire-Wrapped Bundles at Low Velocities Under Natural Circulation Flow Conditions  
*Hongyi Yang, Hongrui Li, Xiuli Xue, Zhiwei Zhou*
- 301** The ICSCREAM Methodology: Identification of Penalizing Configurations in Computer Experiments Using Screening and Metamodel—Applications in Thermal Hydraulics  
*A. Marrel, B. Looss, V. Chabridon*
- 322** Neutron Balance Features in Breed-and-Burn Fast Reactors  
*Odmaa Sambuu, Van Khanh Hoang, Jun Nishiyama, Toru Obara*

### TECHNICAL NOTE

- 342** Analyzing APR1400 System Response Under Load Follow Operation Using a Multiphysics Approach  
*Abd El Rahman Mahmoud, Aya Diab*