TECHNICAL PAPERS

FUEL CYCLE AND MANAGEMENT

1 Relative Proliferation Risks for Different Fuel Cycle Arrangements / Meng Yue, Lap-Yan Cheng, Robert A. Bari

THERMAL HYDRAULICS

18 Development and Validation of a Porous-Medium Computational Fluid Dynamics Model for a Fast Boron Shutdown System / Timothy J. Drzewiecki, Brian L. Mount, Martin Lopez de Bertodano

32 Validation of the TASS/SMR and MARS Codes for a Natural-Circulation Experiment at the VISTA Facility / Y. J. Chung, S. H. Yang, H. K. Kim, M. K. Chung, K. K. Kim

43 Experimental and Numerical Analysis of Natural Convection in Geometrically Modeled Core Catcher of the Liquid-Metal-Cooled Fast Reactor / Anil Kumar Sharma, Sanjay Kumar Das, J. Harvey

NUCLEAR PLANT OPERATIONS AND CONTROL


MATERIALS FOR NUCLEAR SYSTEMS

96 Low-Burnup Irradiation Behavior of Fast Reactor Metal Fuels Containing Minor Actinides / Hirokazu Ohta, Takanari Ogata, Takeshi Yokoo, Michel Ougier, Jean-Paul Glatz, Bruno Fontaine, Laurent Breton

ACCELERATORS

111 Accelerator-Based Target Design and Optimization Driven by High-Energy Electron Beams and Proton Beams for the Analysis of Neutron Generation Characteristics / Yaxi Liu, Man-Sung Yim, David McNelis

TECHNICAL NOTE

RADIATION MEASUREMENTS AND INSTRUMENTATION

124 Elemental Analysis of Neutron-Induced Gamma-Ray Spectra for Detection of Hazardous Materials / Bin Liu, Xuefeng Lv, Shiliang Zhou, Ying Wu