TECHNICAL PAPERS

1 New Approach to Space-Dependent Kinetic Analysis by the Integral Kinetic Model
Hiroki Takezawa, Toru Obara

13 Neutron Balance Analysis for Sustainability of Breed-and-Burn Reactors
Florent Heidet, Ehud Greenspan

32 Development of a HEX-Z Partially Homogenized Benchmark Model for the FFTF Isothermal Physics Measurements
John D. Bess

41 Heuristic Methods for Assigning Spent Nuclear Fuel Assemblies to Canisters for Final Disposal
Timo Ranta, Frank Cameron

52 A Burnup-Dependent Isomeric Production Branching Ratio Treatment
W. Haeck, B. Cochet, L. Aguiar

69 Reliability Models of Aging Passive Components Informed by Materials Degradation Metrics to Support Long-Term Reactor Operations
Stephen D. Unwin, Peter P. Lowry, Michael Y. Toyooka

78 Measurement of Neutron-Induced Reaction Cross Sections in Zirconium Isotopes at Thermal, 2.45 MeV and 9.85 MeV Energies