NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 129, NUMBER 3, JULY 1998

CONTENTS

TECHNICAL PAPERS

209	Measurements of Neutron Spallation Cross Sections of ¹² C and ²⁰⁹ Bi in the 20- to 150-MeV Energy Range	E. Kim, T. Nakamura, A. Konno, Y. Uwamino, N. Nakanishi, M. Imamura, N. Nakao, S. Shibata, S. Tanaka
224	Analysis of the Transport of Radionuclide Chains in a Stochastic Geological Medium by a Biased Monte Carlo Simulation	O. F. Smidts, J. Devooght
246	Numerical and Experimental Study of an Accidental Depressurization in an Enclosure Containing High-Pressure Liquid	P. Drai, B. Porterie, P. Monier, J. C. Loraud
261	Application of Modal Neutron Kinetics to Boiling Water Reactor Oscillation Problems	Yousef M. Farawila
273	Role of Neutron Sources, Xenon, and Decay Heat Dynamics in Autonomous Reactor Shutdown and Recriticality	H. van Dam
283	Adaptive Control for Axial Power Distribution in Nuclear Reactors	Man Gyun Na, Belle R. Upadhyaya, Jung In Choi
294	Mechanistic Modeling of Critical Flow of Initially Subcooled Liquid Containing Dissolved Noncondensables Through Cracks and Slits Based on the Homogeneous Equilibrium Mixture Method	H. Geng, S. M. Ghiaasiaan
305	Implicit Coupling of Fluid-Dynamic Systems: Application to Multidimensional Countercurrent Two-Phase Flow of Water and Steam	Udo Graf
311	Performance of Scientific Computing Platforms with MCNP4B	H. E. McLaughlin, J. S. Hendricks

320 VOLUME 129 AUTHOR AND SUBJECT INDEXES