NUCLEAR SCIENCE AND ENGINEERING®

VOLUME 147, NUMBER 3, JULY 2004

CONTENTS

TECHNICAL PAPERS

189	A Comparative Review of Sensitivity and Uncertainty Analysis of Large-Scale Systems—I: Deterministic Methods	Mihaela lonescu-Bujor, Dan G. Cacuci
204	A Comparative Review of Sensitivity and Uncertainty Analysis of Large-Scale Systems—II: Statistical Methods	Dan G. Cacuci, Mihaela Ionescu-Bujor
218	Krylov Iterative Methods and the Degraded Effectiveness of Diffusion Synthetic Acceleration for Multidimensional S_N Calculations in Problems with Material Discontinuities	James S. Warsa, Todd A. Wareing, Jim E. Morel
249	Discrete Ordinates Solutions for Highly Forward Peaked Scattering	Richard Sanchez, Norman J. McCormick
275	Unified Nodal Method for Solution to the Space-Time Kinetics Problems	Hyun Chul Lee, Ku Young Chung, Chang Hyo Kim
292	A Stochastic Problem Arising in the Storage of Radioactive Waste	M. M. R. Williams
307	Critical Experiments with Highly Enriched Uranium and Matrix Elements (Si, Mg, Al, Gd, and Fe)	Rene Sanchez, David Loaiza, Glenn Brunson, Robert Kimpland
	TECHNICAL NOTE	
319	Compression and Heating of a Gaseous Deuterium- Tritium Mixture by Means of Cascaded Light Gas Guns and Its Possible Application to Nuclear Fusion	D. Hofmann
	LETTERS TO THE EDITOR	
323	Comments on the Incompleteness of Analytic Base Function Expansion to Nodal Diffusion Equation Solution	Y. A. Chao
324	Comments on Fröhner's Bayesian Formulation for Data Evaluation	Y. A. Chao
326	Reply to "Comments on Fröhner's Bayesian Formulation for Data Evaluation"	F. H. Fröhner
	ADDENDUM	
329	Conditions for a Minimum Critical Mass in a Nuclear Reactor and Considerations on Goertzel's Theorem in Transport Theory: Addendum	M. M. R. Williams

331 VOLUME 147 AUTHOR AND SUBJECT INDEXES