

NUCLEAR SCIENCE AND TECHNOLOGY

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Mathematical Methods in Nuclear Reactor Dynamics

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and LOUIS AL. SHOTKIN

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Mathematical Methods In Nuclear Reactor Dynamics

Serge Marguet



Mathematical Methods In Nuclear Reactor Dynamics:

Mathematical methods in Nuclear reactor Dynamics Ziya Akcasuh,2012-12-02 Mathematical Methods in Nuclear Reactor Dynamics covers the practical and theoretical aspects of point reactor kinetics and linear and nonlinear reactor dynamics The book which is a result of the lectures given at the University of Michigan is composed of seven chapters The opening chapter of the book describes various physical phenomena influencing the temporal behavior of neutrons to provide insights into the physics of reactor dynamics and the interrelationships between various diverse phenomena The text then presents a set of equations called point kinetic equation which describes the time behavior of the total power generated in the medium The book also provides a short discussion on Gyftopoulos modification and Becker s formulation The next chapters explore the exact methods for solving the feedback free point kinetic equations for a number of reactivity insertions and the validity of the various approximate methods of solution The book also examines the derivation of models for a certain reactor type and briefly discusses the validity of these models in certain cases against experimental data A chapter focuses on a concise presentation of the stability theory of linear systems with feedback Lastly the concepts of stability in nonlinear reactor systems and the criteria for asymptotic stability in the large as well as in a finite domain of initial disturbances are covered in the concluding chapter The text is an ideal source for nuclear engineers and for those who have adequate background in reactor physics and operational and applied mathematics

Mathematical Methods in Nuclear Reactor Dynamics [by] Ziya Akcasu, Gerald S. Lellouche [and] Louis M. Shotkin Ziya Akcasu,1971 Fractional Calculus with Applications for Nuclear Reactor Dynamics

Santanu Saha Ray,2015-07-29 Introduces Novel Applications for Solving Neutron Transport Equations While deemed nonessential in the past fractional calculus is now gaining momentum in the science and engineering community Various disciplines have discovered that realistic models of physical phenomenon can be achieved with fractional calculus and are using them in numerous way **Reactor Technology** ,1972

The Physics of Nuclear Reactors Serge Marguet,2018-02-26 This comprehensive volume offers readers a progressive and highly detailed introduction to the complex behavior of neutrons in general and in the context of nuclear power generation A compendium and handbook for nuclear engineers a source of teaching material for academic lecturers as well as a graduate text for advanced students and other non experts wishing to enter this field it is based on the author s teaching and research experience and his recognized expertise in nuclear safety After recapping a number of points in nuclear physics placing the theoretical notions in their historical context the book successively reveals the latest quantitative theories concerning The slowing down of neutrons in matter The charged particles and electromagnetic rays The calculation scheme especially the simplification hypothesis The concept of criticality based on chain reactions The theory of homogeneous and heterogeneous reactors The problem of self shielding The theory of the nuclear reflector a subject largely ignored in literature The computational methods in transport and diffusion theories Complemented by more than 400 bibliographical references some

of which are commented and annotated and augmented by an appendix on the history of reactor physics at EDF Electricit De France this book is the most comprehensive and up to date introduction to and reference resource in neutronics and reactor theory

Neutron Dynamics and Control ,1966 Power Reactor Technology ,1965 **Power Reactor Technology and Reactor Fuel Processing** ,1964 **Nuclear Reactors-physics, Design And Safety - Proceedings Of The Workshop** A Gandini,J J Schmidt,S Ganesan,1995-10-24 The lectures reported in these proceedings were given in the Workshop on Nuclear Reactors Physics Design and Safety held at the International Centre for Theoretical Physics in Trieste in 1994 by experts from leading international research institutions and industries They have been organized in a self consistent form with the objective of giving basic up dated information to scientists and engineers from developing countries in modern methods for the computation and analysis of nuclear reactors with particular emphasis on reactor physics design and safety

Noise and Nonlinear Phenomena in Nuclear Systems J.L. Munoz-Cobo,F.C. Difilippo,2013-06-29 The main goal of the meeting was to facilitate and encourage the application of recent developments in the physical and mathematical sciences to the analysis of deterministic and stochastic processes in nuclear engineering In contrast with the rapid growth triggered by computer developments of nonlinear analysis in other branches of the physical sciences the theoretical analysis of nuclear reactors is still based on linearized models of the neutronics and thermal hydraulic feedback loop an approach that ignores some intrinsic nonlinearities of the real system The subject of noise was added because of the importance of the noise technique in detecting abnormalities associated with perturbations of sufficient amplitude to generate nonlinear processes Consequently the organizers of the meeting invited a group of leading researchers in the field of noise and nonlinear phenomena in nuclear systems to report on recent advances in their area of research A selected subgroup of researchers in areas outside the reactor field provided enlightenment on new theoretical developments of immediate relevance to nuclear dynamics theory

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