

NUCLEAR SCIENCE AND TECHNOLOGY

VOLUME 7

Mathematical Methods in Nuclear Reactor Dynamics

ZIYA ABGASU, GERALD S. LELAND, and LOUIS M. SHOTKIN

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Mathematical Methods In Nuclear Reactor Dynamics

American Nuclear Society



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 the 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 ways.

Power Reactor Technology, 1965 **Reactor Technology**, 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-to-date 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.

Nuclear Science Abstracts, 1972 **Power Reactor Technology and Reactor Fuel Processing**, 1964 Noise and Nonlinear Phenomena in Nuclear Systems J.L. Munoz-Cobo, F.C. D'Filippo, 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

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 **Scientific and Technical Aerospace Reports**, 1983 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database

Global Neutron Calculations Mihály Makai, Dániel Péter Kis, János Végh, 2015-03-05 Global Neutron Calculations provides assessment guidelines for nuclear reactors in a step by step manner The book introduces readers to principal physical ideas the fundamentals of nuclear reactors including the theory of self sustaining chain reactions and the associated physical and mathematical calculations The required theory the mathematical apparatus and the applied methods are comprehensively explained in the first half of the book followed by details about the applications of the theory and methods Readers will gain essential information about reactor control and surveillance instrumentation and control technology fuel management core design and the differences in reactor technologies Global Neutron Calculations demystifies technical and mathematical knowledge about reactor design operation safety and analysis for engineers learning about one of mankind's most controversial means of power generation

Mathematical Nodal Method for Energy-space-time Nuclear Reactor Dynamics Thuy Trong Le, 1987 **Theory of Differential Equations with Unbounded Delay** V. Lakshmikantham, Lizhi Wen, Binggen Zhang, 2013-11-27 Because the theory of equations with delay terms occurs in a variety of contexts it is important to provide a framework whenever possible to handle as many cases as possible simultaneously so as to bring out a better insight and understanding of the subtle differences of the various equations with delays Furthermore such a unified theory would avoid duplication and expose open questions that are significant for future research It is in this spirit that the authors view the importance of their monograph which presents a systematic and unified theory of recent developments of equations with unbounded delay describes the current state of the theory showing the essential unity achieved and provides a general structure applicable to a variety of problems It is the first book that i presents a unified framework to investigate the basic existence theory for a variety of equations with delay ii treats the classification of equations with memory precisely so as to bring out the subtle differences between them iii develops a systematic study of stability theory in terms of two different measures which includes several known concepts and iv exhibits the advantages of employing Lyapunov functions on product spaces as well as the method of perturbing Lyapunov functions This book will be of value to researchers and advanced graduate students in mathematics electrical engineering and biomathematics Volterra Integral and Functional Equations G. Gripenberg, S. O. Londen, O. Staffans, 1990 This book looks at the theories of Volterra integral and functional equations *Applied Mathematical Modelling of Engineering Problems* N.V. Hritonenko, Yuri P. Yatsenko, 2013-04-17 The subject of the book is the know how of applied mathematical modelling how to construct specific models and adjust them to a new engineering environment or more precise realistic assumptions how to analyze models for the purpose of investigating real life phenomena and how the models can extend our knowledge about a specific engineering process Two major sources of the book are the stock of classic models and the authors wide experience in the field The book provides a theoretical background to guide the development of practical models and their investigation It considers general modelling techniques explains basic underlying physical laws and shows how to transform them into a set of mathematical equations The emphasis is placed on common features of the modelling process in various applications as well as on complications and generalizations of models The book covers a variety of applications mechanical acoustical physical and electrical water transportation and contamination processes bioengineering and population control production systems and technical equipment renovation Mathematical tools include partial and ordinary differential equations difference and integral equations the calculus of variations optimal control bifurcation methods and related subjects **Transactions of the American Nuclear Society** American Nuclear Society, 1971 Technical Books & Monographs Sponsored by the U.S. Atomic Energy Commission U.S. Atomic Energy Commission, 1962 **Technical Books & Monographs** United States. Energy Research and Development Administration, 1968

Unveiling the Magic of Words: A Review of "**Mathematical Methods In Nuclear Reactor Dynamics**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Mathematical Methods In Nuclear Reactor Dynamics**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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