

**NUCLEAR SCIENCE  
AND TECHNOLOGY**

A Series of Monographs  
and Textbooks

**VOLUME 5**

# **SPACE-TIME NUCLEAR REACTOR KINETICS**

Weston M. Stacey, Jr.



**ACADEMIC PRESS** New York - London

Space Time Nuclear Reactor Kinetics Nuclear Science  
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**Space-time Nuclear Reactor Kinetics** Weston M. Stacey, 1969      **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      *Variational Methods in Nuclear Reactor Physics* Weston M. Jr. Stacey, 2012-12-02 Nuclear Science and Technology Volume 10 Variational Methods in Nuclear Reactor Physics presents the mathematical methods of a variational origin that are useful in obtaining approximate solutions to science and engineering problems This book is composed of five chapters and begins with a discussion on the variation principles for physical systems described by both inhomogeneous and homogeneous equations to develop a generalized perturbation theory Chapter 2 deals with the applications of variational estimates and generalized perturbation theory to neutron transport problems Chapter 3 covers the variation principles of the Lagrangian form that are constructed for a general linear time dependent process and for the specific case of the P1 neutron kinetics equations Chapter 4 presents the general procedure for the variational derivation of synthesis approximations and their applications to problems in reactor physics This chapter also examines the relationship of the spatial synthesis and finite element method and a hybrid method that combines features of both methods Chapter 5 describes the relationship of variation theory with the Hamilton Jacobi theory and with the optimization theories of the maximum principle and dynamic programming Nuclear physicists and researchers will find this text invaluable      **Nuclear Reactor Safety** F Farmer, 2012-12-02 Nuclear Reactor Safety aims to put the nuclear hazard in perspective by providing an objective overall technical review of the field It focuses on reactor accidents and their consequences The technical arguments will be concerned broadly with reactor accident conditions and will deal with both the arrangements necessary to prevent

any dangerous diversion from normal operation and to ameliorate the consequences if such a diversion should occur The book is organized into three parts Part I describes the nature of fission products and the hazards to man and his environment resulting from the uncontrolled release of fission products in accident conditions Part II discusses a quantitative approach to reactor safety assessment and the quantification of vessel integrity Part III deals with the basic principles of analysis and assessment of reactor safety and then considers the specific safety problems of thermal and fast reactors in detail This book is intended for two types of readers First are technicians those engaged in nuclear engineering designers constructors and operators of nuclear stations as well as those who would make a career in nuclear safety Second are those not necessarily scientists who are tasked with making decisions in the field of energy use and allocation or are concerned with environmental matters

**Nuclear Science Abstracts** ,1970      **Frequency Response Testing in Nuclear Reactors** T

Kerlin,2012-12-02 Frequency Response Testing in Nuclear Reactors presents the optimum testing procedures for measurements in power reactors This eight chapter book emphasizes the determination of the system frequency response using nonsinusoidal input perturbations which are useful since normal power reactor hardware can be used This text deals first with the mathematical aspects of frequency response testing with a particular emphasis on numerical Fourier transformations using analog or digital equipment The subsequent chapters examine the important signals for use in frequency responses tests and the analysis of these signals using analog and digital computing equipment The discussion then shifts to the frequency response functions that describe nuclear reactor dynamics This topic is followed by a presentation of techniques for extracting useful information from test results A chapter highlights the most common control rod drive mechanisms to assess their suitability for dynamics testing The concluding chapter provides a brief summary of significant experiences with dynamics tests in nuclear reactors Scientists researchers and workers in the field of nuclear reactors and related subjects will find this book invaluable

**Application of Invariant Embedding to Reactor Physics**

Akinao Shimizu,Katsutada Aoki,2013-09-03 Application of Invariant Embedding to Reactor Physics describes the application of the method of invariant embedding to radiation shielding and to criticality calculations of atomic reactors The authors intend to show how this method has been applied to realistic problems together with the results of applications which will be useful to shielding design The book is organized into two parts Part A deals with the reflection and transmission of gamma rays by slabs The chapters in this section cover topics such as the reflection and transmission problem of gamma rays formulation of the problem based on the invariant embedding principle solutions of equations for simplified models and solving the equations for the reflection and transmission functions based on the realistic cross section for gamma rays Part B discusses applications to criticality calculations covering one dimensional and two dimensional problems

**Fast Reactor Safety** John Graham,2012-12-02 Fast Reactor Safety deals with safety design criteria and methodology for fast reactors Topics covered include safety evaluation methods system disturbances containment and licensing The characteristics of fast

reactors including heat ratings and coolants are also discussed Comprised of six chapters this book opens with an overview of methods used to evaluate nuclear safety along with neutron kinetics thermal and feedback effects and fault tree analysis The reader is then introduced to possible system disturbances in relation to three distinct fast reactor systems liquid metal cooled fast breeder reactors gas cooled fast breeder reactors and steam cooled fast breeder reactors The next chapter looks at safety criteria that are set to define the design of a safe plant together with the safety features that might be included The remaining chapters focus on the particular problems of a sodium cooled design containment building and primary circuit and vessel containment and licensing of the plant This monograph is intended for graduates and undergraduates in nuclear engineering who are attending courses in reactor safety Library of Congress Catalog Library of Congress,1970

*Recent Works in the California State Library in Science and Technology* California State Library,1972 **Optimal Control of Nuclear Reactors** Ronald R. Mohler,Chi-neng Shen,1970 **Library of Congress Catalogs** Library of Congress,1976 **Books in Series** ,1985 Vols for 1980 issued in three parts Series Authors and Titles *Technical Book Review Index* ,1970 □□□□□□□□ ,1974 **Publishers' Trade List Annual, 1980** Bobbs-Merrill Educational Co,1980

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