

Variational Methods in Nuclear Reactor Physics

WESTON M. STACEY, JR.

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ARGONNE, ILLINOIS



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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

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Nuclear Reactor Physics Weston M. Stacey, 2018-06-05 The third revised edition of this popular textbook and reference which has been translated into Russian and Chinese expands the comprehensive and balanced coverage of nuclear reactor physics to include recent advances in understanding of this topic The first part of the book covers basic reactor physics including but not limited to nuclear reaction data neutron diffusion theory reactor criticality and dynamics neutron energy distribution fuel burnup reactor types and reactor safety The second part then deals with such physically and mathematically more advanced topics as neutron transport theory neutron slowing down resonance absorption neutron thermalization perturbation and variational methods homogenization nodal and synthesis methods and space time neutron dynamics For ease of reference the detailed appendices contain nuclear data useful mathematical formulas an overview of special functions as well as introductions to matrix algebra and Laplace transforms With its focus on conveying the in depth knowledge needed by advanced student and professional nuclear engineers this text is ideal for use in numerous courses and for self study by professionals in basic nuclear reactor physics advanced nuclear reactor physics neutron transport theory nuclear reactor dynamics and stability nuclear reactor fuel cycle physics and other important topics in the field of nuclear reactor physics *Handbook of Nuclear Engineering* D. G. Cacuci, 2010-09-14 This is an authoritative compilation of information regarding methods and data used in all phases of nuclear engineering Addressing nuclear engineers and scientists at all levels this book provides a condensed reference on nuclear engineering since 1958

Synthesis Methods and Variational Methods in Nuclear Reactor Theory, Physics, and Computational Methods

,1970 Nuclear Science Abstracts ,1976-04 *NBS Special Publication* ,1980 *Reactor Technology* ,1970

Inventory of energy research and development--1973-1975 Oak Ridge National Laboratory,1976 Sensitivity & Uncertainty Analysis, Volume 1 Dan G. Cacuci,2003-05-28 As computer assisted modeling and analysis of physical processes have continued to grow and diversify sensitivity and uncertainty analyses have become indispensable investigative scientific tools in their own right While most techniques used for these analyses are well documented there has yet to appear a systematic treatment of the method based *Power Reactor Technology and Reactor Fuel Processing* ,1971

Proceedings of the 1981 Army Numerical Analysis and Computers Conference ,1981 **ERDA Energy Research Abstracts** ,1977 *Scientific and Technical Aerospace Reports* ,1974 *Advances in High-Order Predictive Modeling* Dan Gabriel Cacuci,2024-12-11 Continuing the author s previous work on modeling this book presents the most recent advances in high order predictive modeling The author begins with the mathematical framework of the 2nd BERRU PM methodology an acronym that designates the second order best estimate with reduced uncertainties 2nd BERRU predictive modeling PM The 2nd BERRU PM methodology is fundamentally anchored in physics based principles stemming from thermodynamics maximum entropy principle and information theory being formulated in the most inclusive possible phase space namely the combined phase space of computed and measured parameters and responses The 2nd BERRU PM methodology provides second order output means and variances but can incorporate as input arbitrarily high order sensitivities of responses with respect to model parameters as well as arbitrarily high order moments of the initial distribution of uncertain model parameters in order to predict best estimate mean values for the model responses i e results of interest and calibrated model parameters along with reduced predicted variances and covariances for these predicted responses and parameters *The nth-Order Comprehensive Adjoint Sensitivity Analysis Methodology, Volume I* Dan Gabriel Cacuci,2022-07-19 The computational models of physical systems comprise parameters independent and dependent variables Since the physical processes themselves are seldom known precisely and since most of the model parameters stem from experimental procedures which are also subject to imprecisions the results predicted by these models are also imprecise being affected by the uncertainties underlying the respective model The functional derivatives also called sensitivities of results also called responses produced by mathematical computational models are needed for many purposes including i understanding the model by ranking the importance of the various model parameters ii performing reduced order modeling by eliminating unimportant parameters and or processes iii quantifying the uncertainties induced in a model response due to model parameter uncertainties iv performing model validation by comparing computations to experiments to address the question does the model represent reality v prioritizing improvements in the model vi performing data assimilation and model calibration as part of forward predictive modeling to obtain best estimate predicted results with reduced predicted uncertainties vii performing inverse predictive modeling viii designing and optimizing the system This 3 Volume monograph

describes a comprehensive adjoint sensitivity analysis methodology developed by the author which enables the efficient and exact computation of arbitrarily high order sensitivities of model responses in large scale systems comprising many model parameters. The qualifier comprehensive is employed to highlight that the model parameters considered within the framework of this methodology also include the system's uncertain boundaries and internal interfaces in phase space. The model's responses can be either scalar valued functionals of the model's parameters and state variables e.g. as customarily encountered in optimization problems or general function valued responses. Since linear operators admit bona fide adjoint operators responses of models that are linear in the state functions i.e. dependent variables can depend simultaneously on both the forward and the adjoint state functions. Hence the sensitivity analysis of such responses warrants the treatment of linear systems in their own right rather than treating them as particular cases of nonlinear systems. This is in contradistinction to responses for nonlinear systems which can depend only on the forward state functions since nonlinear operators do not admit bona fide adjoint operators only a linearized form of a nonlinear operator may admit an adjoint operator. Thus Volume 1 of this book presents the mathematical framework of the nth Order Comprehensive Adjoint Sensitivity Analysis Methodology for Response Coupled Forward Adjoint Linear Systems abbreviated as nth CASAM L which is conceived for the most efficient computation of exactly obtained mathematical expressions of arbitrarily high order nth order sensitivities of a generic system response with respect to all of the parameters underlying the respective forward adjoint systems. Volume 2 of this book presents the application of the nth CASAM L to perform a fourth order sensitivity and uncertainty analysis of an OECD NEA reactor physics benchmark which is representative of a large scale model comprises many 21 976 uncertain parameters thereby amply illustrating the unique potential of the nth CASAM L to enable the exact and efficient computation of chosen high order response sensitivities to model parameters. Volume 3 of this book presents the nth Order Comprehensive Adjoint Sensitivity Analysis Methodology for Nonlinear Systems abbreviation nth CASAM N for the practical efficient and exact computation of arbitrarily high order sensitivities of responses to model parameters for systems that are also nonlinear in their underlying state functions. Such computations are not feasible with any other methodology. The application of the nth CASAM L and the nth CASAM N overcomes the so called curse of dimensionality in sensitivity and uncertainty analysis thus revolutionizing all of the fields of activities which require accurate computation of response sensitivities. Since this monograph includes many illustrative fully worked out paradigm problems it can serve as a textbook or as supplementary reading for graduate courses in academic departments in the natural sciences and engineering.

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