

Introduction to
**Nuclear
Engineering**

Third Edition

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Anthony J. Baratta



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Nuclear Reactor Thermal Hydraulics Robert E. Masterson, 2019-08-21 Nuclear Thermal Hydraulic Systems provides a comprehensive approach to nuclear reactor thermal hydraulics reflecting the latest technologies reactor designs and safety considerations The text makes extensive use of color images internet links computer graphics and other innovative techniques to explore nuclear power plant design and operation Key fluid mechanics heat transfer and nuclear engineering concepts are carefully explained and supported with worked examples tables and graphics Intended for use in one or two semester courses the text is suitable for both undergraduate and graduate students A complete Solutions Manual is available for professors adopting the text

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Fractional Calculus with Applications for Nuclear Reactor Dynamics Santanu Saha Ray,2015-07-28 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 Since fractional calculus represents a reactor more closely than classical integer order calculus Fractional Calculus with Applications for Nuclear Reactor Dynamics focuses on the application of fractional calculus to describe the physical behavior of nuclear

reactors It applies fractional calculus to incorporate the mathematical methods used to analyze the diffusion theory model of neutron transport and explains the role of neutron transport in reactor theory The author discusses fractional calculus and the numerical solution for fractional neutron point kinetic equation FNPKE introduces the technique for efficient and accurate numerical computation for FNPKE with different values of reactivity and analyzes the fractional neutron point kinetic FNPKE model for the dynamic behavior of neutron motion The book begins with an overview of nuclear reactors explains how nuclear energy is extracted from reactors and explores the behavior of neutron density using reactivity functions It also demonstrates the applicability of the Haar wavelet method and introduces the neutron diffusion concept to aid readers in understanding the complex behavior of average neutron motion This text Applies the effective analytical and numerical methods to obtain the solution for the NDE Determines the numerical solution for one group delayed neutron FNPKE by the explicit finite difference method Provides the numerical solution for classical as well as fractional neutron point kinetic equations Proposes the Haar wavelet operational method HWOM to obtain the numerical approximate solution of the neutron point kinetic equation and more Fractional Calculus with Applications for Nuclear Reactor Dynamics thoroughly and systematically presents the concepts of fractional calculus and emphasizes the relevance of its application to the nuclear reactor

An Introduction to Numerical Methods for Chemical Engineers (2nd Ed.) James B.

Riggs,1994-01-15

Solution Manual to Accompany Basic Principles and Calculations in Chemical Engineering David

Mautner Himmelblau,James B. Riggs,2004-01

Utilizing Mathematica Software Solution of Boundary Value Problems in

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