INTRODUCTORY NUCLEAR PHYSICS

Kenneth S. Krane

Introductory Nuclear Physics Krane Solution Manual

Arthur James Wells

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Energy Research Abstracts ,1980 Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information
International Books in Print ,1990
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typical dynamic responses The classical concept of point kinetics is developed in three steps with discussion of various solutions to kinetics problems Each chapter includes homework problems and review questions Introductory Nuclear Reactor Statics Karl Otto Ott, Winfred A. Bezella, 1983 Introduction to Nuclear Reactor Physics Robert E. Masterson, 2017-11-22 INTRODUCTION TO NUCLEAR REACTOR PHYSICS is the most comprehensive modern and readable textbook for this course module It explains reactors fuel cycles radioisotopes radioactive materials design and operation Chain reaction and fission reactor concepts are presented plus advanced coverage including neutron diffusion theory The diffusion equation Fisk's Law and steady state time dependent reactor behavior Numerical and analytical solutions are also covered The text has full color illustrations throughout and a wide range of student learning features **Nuclear Reactor** John C. Lee, 2020-02-26 An introductory text for broad areas of nuclear reactor physics Nuclear Reactor Physics and Engineering offers information on analysis design control and operation of nuclear reactors The author a noted expert on the topic explores the fundamentals and presents the mathematical formulations that are grounded in differential equations and linear algebra The book puts the focus on the use of neutron diffusion theory for the development of techniques for lattice physics and global reactor system analysis The author also includes recent developments in numerical algorithms including the Krylov subspace method and the MATLAB software including the Simulink toolbox for efficient studies of steady state and transient reactor configurations. In addition nuclear fuel cycle and associated economics analysis are presented together with the application of modern control theory to reactor operation This important book Provides a comprehensive introduction to the fundamental concepts of nuclear reactor physics and engineering Contains information on nuclear reactor kinetics and reactor design analysis Presents illustrative examples to enhance understanding Offers self contained derivation of fluid conservation equations Written for undergraduate and graduate students in nuclear engineering and practicing engineers Nuclear Reactor Physics and Engineering covers the fundamental concepts and tools of nuclear reactor physics and analysis

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