

# Fundamentals Nuclear Reactor Physics

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Laura Moreira*

fundamentals of nuclear reactor physics offers a one semester treatment of the essentials of how the fission nuclear reactor works the various approaches to the design of reactors and their safe and efficient operation it provides a clear general overview of atomic physics from the standpoint of reactor functionality and design including the sequence of fission reactions and their energy release it provides in depth discussion of neutron reactions including neutron kinetics and the neutron energy

spectrum as well as neutron spatial distribution it includes ample worked out examples and over 100 end of chapter problems engineering students will find this applications oriented approach with many worked out examples more accessible and more meaningful as they aspire to become future nuclear engineers a clear general overview of atomic physics from the standpoint of reactor functionality and design including the sequence of fission reactions and their energy release in depth discussion of neutron reactions including neutron kinetics and the neutron energy spectrum as well as neutron spatial distribution ample worked out examples and over 100 end of chapter problems full solutions manual

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

this book introduces students of physics and nuclear engineering to reactor physics in a simple and intuitive way it presents and explains the main mathematical concepts and ideas of reactor physics in a very simple form but without losing scientific or mathematical rigour it is an ideal book for dealing with and getting started with radioactivity calculations or basic problems in reactor physics

fundamental of nuclear engineering is derived from over 25 years of teaching undergraduate and graduate courses on nuclear engineering the material has been extensively class tested and provides the most comprehensive textbook and reference on the fundamentals of nuclear engineering it includes a broad range of important areas in the nuclear engineering field nuclear and atomic theory nuclear reactor physics design control dynamics safety and thermal hydraulics nuclear fuel engineering and health physics radiation protection it also includes the latest information that is missing in traditional texts such as space radiation the aim of the book is to provide a source for upper level undergraduate and graduate students studying nuclear engineering

nuclear engineering has undergone extensive progress over the years in the past century colossal developments have been made and with specific reference to the mathematical theory and computational science underlying this discipline advances in areas such as high order discretization methods krylov methods and iteration acceleration have steadily grown nuclear computational science a century in review addresses these topics and many more

topics which hold special ties to the first half of the century and topics focused around the unique combination of nuclear engineering computational science and mathematical theory comprising eight chapters nuclear computational science a century in review incorporates a number of carefully selected issues representing a variety of problems providing the reader with a wealth of information in both a clear and concise manner the comprehensive nature of the coverage and the stature of the contributing authors combine to make this a unique landmark publication targeting the medium to advanced level academic this book will appeal to researchers and students with an interest in the progression of mathematical theory and its application to nuclear computational science

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elementary reactor physics details the underlying principles that govern the physical processes taking place in a nuclear reactor core the title tackles the various variables that contribute to the kinetic behavior of a nuclear reactor the text first introduces the basic concepts of nuclear reactor kinetics and then proceeds to tackling neutron and neutron cross sections next the selection covers neutron diffusion and the slowing down of neutrons the text also covers both homogeneous and heterogeneous reactions along with the effects of temperature and of fission products the eighth chapter discusses long term changes while the last chapter tackles control rod calculations the book will be of great use to students of degrees involved in dealing with various operational concerns in nuclear reactors

this volume describes all facets of reactor physics in an easily comprehensible manner without any loss of rigour it presents the main mathematical formulas of these areas providing a detailed explanation of the conceptual ideas behind them

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