

# **Introduction to NUCLEAR REACTOR THEORY**

**John R. Lamarsh  
NEW YORK UNIVERSITY**

**ADDISON-WESLEY PUBLISHING COMPANY**

# Introduction To Nuclear Reactor Theory

**Kenneth S. Krane**



## **Introduction To Nuclear Reactor Theory:**

Introduction to Nuclear Reactor Theory John R. Lamarsh, 1966      **Introduction to Nuclear Reactor Theory** D. L. Welch, 1969      An Introduction to Nuclear Reactor Theory C. E. Iliffe, 1984      **Introductory Nuclear Reactor Theory** Herbert S. Isbin, 1963      *Nuclear Reactor Physics and Operation* Bahman Zohuri, Seyed Kamal Mousavi Balgehshiri, Guglielmo Lomonaco, 2025-08-29 This book serves as a thorough reference for students researchers and professionals in nuclear engineering and reactor physics offering a detailed exploration of the core principles behind nuclear reactor theory neutron transport neutronic analysis and reactor core design and calculations Each chapter includes at least one example to illustrate the topics covered and the latter half focuses on key areas relevant to operating reactors reactor kinetics dynamics and in core fuel management Building on the foundational physics presented in the first half it develops reactivity models using realistic reactor cross section data and advanced analytic tools This book is a valuable resource for engineers and scientists in the nuclear industry as well as senior and graduate students in Nuclear Engineering Mechanical Engineering and Physics Key Features Offers an in depth examination of reactor physics encompassing neutron interactions reactor kinetics reactor dynamics fuel cycles and safety factors to provide a comprehensive understanding of nuclear reactor operation and design Contains clear explanations of complex theories and mathematical formulations accompanied by illustrative diagrams figures and examples to facilitate comprehension Features structured chapters with learning objectives summaries review questions and problem sets at varying levels of difficulty to reinforce understanding and encourage active engagement with the material      *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 Fick'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 Fission Reactors** I. R. Cameron, 2012-12-06 This book is intended to provide an introduction to the basic principles of nuclear fission reactors for advanced undergraduate or graduate students of physics and engineering The presentation is also suitable for physicists or engineers who are entering the nuclear power field without previous experience with nuclear reactors No background knowledge is required beyond that typically acquired in the first two years of an undergraduate program in physics or engineering Throughout the emphasis is on explaining why particular reactor systems have evolved in the way they have without going into great detail about reactor physics or methods of design analysis which are already covered in a number of excellent specialist texts The first two chapters serve as an introduction to the basic physics of the atom and the nucleus and to nuclear fission and the nuclear chain reaction Chapter 3 deals with the fundamentals of nuclear reactor theory covering

neutron slowing down and the spatial dependence of the neutron flux in the reactor based on the solution of the diffusion equations The chapter includes a major section on reactor kinetics and control including temperature and void coefficients and xenon poisoning effects in power reactors Chapter 4 describes various aspects of fuel management and fuel cycles while Chapter 5 considers materials problems for fuel and other constituents of the reactor The processes of heat generation and removal are covered in Chapter 6      **Introductory Nuclear Reactor Statics** Karl Otto Ott, Winfred A. Bezella, 1983

**Understanding Nuclear Reactors** Brian Hooton, 2024-05-08 Understanding Nuclear Reactors provides a non mathematical understanding of how nuclear reactors operate It describes the components the Pressure Vessel the Pressuriser to control the pressure in a Pressurised Water Reactor PWR and the Steam Generator and it also explains how the chain reaction is controlled in the day to day operations in the Control Room What goes on elsewhere in the nuclear fuel cycle mining enrichment fuel manufacturer spent fuel management and reprocessing are also covered in detail The book tells a set of historical stories about the development of the physics behind reactors and the discovery of fission and explains the hopes for the development of Generation IV reactors Special attention is given to the safety of reactors and the lessons to be learned from the incidents at Three Mile Island Browns Ferry Chernobyl and Fukushima Hooton uses a set of stories to explain the invisible hazard of radiation on the human body Global warming was the motivation for the book so Hooton offers a detailed account of alternative energy sources to fossil fuel solar panels wind turbines geothermal as well as nuclear He gives a detailed account of all the current developments in nuclear fusion as a future prospect for the production of electricity The hydrogen strategy is emerging and may become a revolution but it is a very subtle partner in the quest for net zero so he includes a detailed account of how it fits into the plan to defeat Global warming      **Nuclear Engineering**

**Fundamentals** Robert E. Masterson, 2017-05-18 NUCLEAR ENGINEERING FUNDAMENTALS is the most modern up to date and reader friendly nuclear engineering textbook on the market today It provides a thoroughly modern alternative to classical nuclear engineering textbooks that have not been updated over the last 20 years Printed in full color it conveys a sense of awe and wonder to anyone interested in the field of nuclear energy It discusses nuclear reactor design nuclear fuel cycles reactor thermal hydraulics reactor operation reactor safety radiation detection and protection and the interaction of radiation with matter It presents an in depth introduction to the science of nuclear power nuclear energy production the nuclear chain reaction nuclear cross sections radioactivity and radiation transport All major types of reactors are introduced and discussed and the role of internet tools in their analysis and design is explored Reactor safety and reactor containment systems are explored as well To convey the evolution of nuclear science and engineering historical figures and their contributions to evolution of the nuclear power industry are explored Numerous examples are provided throughout the text and are brought to life through life like portraits photographs and colorful illustrations The text follows a well structured pedagogical approach and provides a wide range of student learning features not available in other textbooks including

useful equations numerous worked examples and lists of key web resources As a bonus a complete Solutions Manual and PDF slides of all figures are available to qualified instructors who adopt the text More than any other fundamentals book in a generation it is student friendly and truly impressive in its design and its scope It can be used for a one semester a two semester or a three semester course in the fundamentals of nuclear power It can also serve as a great reference book for practicing nuclear scientists and engineers To date it has achieved the highest overall satisfaction of any mainstream nuclear engineering textbook available on the market today

**Introductory Nuclear Physics** Kenneth S. Krane, 1991-01-16

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**Materials in Nuclear Energy Applications** C.K. Gupta, 2018-05-04 The text combines an account of scientific and engineering principles with a description of materials and processes of importance in nuclear research and industry The coverage includes fuel materials control and shileding materials and so on in fact for most of the important parts of a reactor

*Introduction to Nuclear Engineering* John R. Lamarsh, 1975 The third edition of this popular book is updated to include a completely revised discussion of reactor technology an improved discussion of the reactor physics and a more detailed discussion of basic nuclear physics and models Introduces the basics of the shell model of the nucleus and a beginning discussion of quantum mechanics Discusses both U S and non U S reactor designs as well as advanced reactors Provides for a more detailed understanding of both reactor statics and kinetics Includes updated information on reactor accidents and safety

TID., 1952 *Nuclear Energy* Raymond L. Murray, Keith E. Holbert, 2019-02-08 Nuclear Energy An Introduction to the Concepts Systems and Applications of Nuclear Processes Eighth Edition provides essential information on basic nuclear physics systems and the applications of nuclear energy It comprehensively covers Basic Concepts Radiation and Its Uses and Nuclear Power providing students with a broad view of nuclear energy and science in a fast paced format that features updated timely content on topics of new and growing importance to current and future nuclear professionals such as tritium powered betavoltaic integrated circuit chips the modulation of radioactive decay constant due to solar activity Monte Carlo radiation transport calculations and accelerator driven systems This book is an essential resource for any first course on nuclear energy and systems Contains coverage of timely topics such as the connection between hydraulic fracturing fracking radioactivity and nuclear forensics Covers the TerraPower traveling wave reactor the first ever FDA approved drug for the treatment of acute radiation injury and more Describes the industry response to the Fukushima nuclear disaster including FLEX in the U S Includes more worked examples and end of chapter exercises

*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     University of Michigan Official Publication ,1956  
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