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Nuclear Reactor Physics Weston M. Stacey, 2018-02-07 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

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

Elementary Reactor Physics P. J. Grant, 2013-09-03 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

DOE Nuclear Physics and Reactor Theory Knowledge Publications Corporation, 2006 **Atomic Energy Research** U.S. Atomic Energy Commission, 1961 **The Elements of Nuclear**

Reactor Theory Samuel Glasstone, Milton C. Edlund, 1960 *Fundamental Chemistry for Nuclear Reactor Engineers* Sigfred Peterson, 1955 **Essential (Further) Elementary & Intermediate Nuclear Reactor Physics & Engineering**

Unzipped Adrian Carrington, 2021-06-11 Of all subjects the physics engineering and technology of nuclear reactors is

perhaps one of the most esoteric yet it plays a highly important role in most of our lives and soon without doubt will become even more so Because it is generally unknown means that it is often feared but it shouldn't be Books that broach this subject often do so from either a most basic approach leaving the enquiring mind wanting for more or more often are designed specifically for students of nuclear engineering to a very advanced level and are therefore far too advanced for the level of interest of the non nuclear student or first second year nuclear undergraduate and often assume that the reader is already in possession of high level mathematics This book sets out at fast pace to ease the reader into this subject at an elementary further elementary and intermediate level but also addresses any theory from basic first principles that is often missing in other literature Herein we explain this subject without missing out the necessary concomitant underlying concepts without which the student will remain forever wondering how This book is also designed to suit and is navigable at all aspirational levels of study from basic technology to advanced physics Within we shall discuss nuclear atomic physics and technology nuclear fission fusion radiation shielding and instrumentation analysis of reactor core design geometries critical mass calculations and fuel pitch optimization fuel poisoning reactor stability reactor types and characteristics nuclear accidents and safety fuel manufacture chemistry and enrichment metallurgy of reactor materials fuel loading and burn up calculations Further to this substantial other material has been added given the need for wider engineering perspectives of power plant design thermodynamics thermal hydraulics engineering control theory and in introducing useful topics including theory and techniques in linear analysis for bridging into advanced reactor theory This book is a highly illustrated concise and comprehensive practical and theoretical introduction to this high utility subject and also serves beyond its apparent cognitive application It is designed to provide more than that of a textbook at the elementary further elementary intermediate level If you are a student of physics mechanical chemical electrical or environmental engineering mathematics or chemistry are a naval officer or just academically or curiously minded who seeks a better understanding of this mysterious subject or if you are a first second year nuclear engineering student then this book will get you straight in and help you succeed in understanding the fascinating world of nuclear energy

The Reactor Handbook: Materials. section 1. General properties, 1955 **The Elements of Nuclear Reactor Theory** Samuel Glasstone, Milton Carl Edlund, 1975

Introduction to Reactor Physics Maria Laura Moreira, Osvaldo Moreira, 2023-02-06 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 **Fundamental Chemistry for Nuclear Reactor Engineers** Sigfred Peterson, 1955 Fundamentals in the Operation of Nuclear Test Reactors U.S. Atomic Energy Commission. Idaho Operations Office, Phillips Petroleum Company. Atomic Energy Division, 1963 The Elements of Nuclear Reactor Theory Samuel Glasstone, Milton C. Edlund, 1963 **The Reactor Handbook: Physics**, 1955 *Fundamental Chemistry for Nuclear Reactor Engineers* Sigfred Peterson, Oak Ridge National Laboratory, 1953 Nuclear Reactor

Engineering Samuel Glasstone, Alexander Sesonske, United States. Department of Energy. Technical Information Center, 1981
Reactor handbook: physics U.S. Atomic Energy Commission, 1955 **Fundamentals of Reactor Physics** Osvaldo
Moreira, María Laura Moreira, 2024-08-15 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
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