



Nuclear Reactor Engineering

Samuel Glasstone



Nuclear Reactor Engineering:

Nuclear Reactor Engineering Samuel Glasstone, Alexander Sesonske, 2012-12-06 Dr Samuel Glasstone the senior author of the previous editions of this book was anxious to live until his ninetieth birthday but passed away in 1986 a few months short of this milestone I am grateful for the many years of stimulation received during our association and in preparing this edition have attempted to maintain his approach Previous editions of this book were intended to serve as a text for students and a reference for practicing engineers Emphasis was given to the broad perspective particularly for topics important to reactor design and operation with basic coverage provided in such supporting areas as neutronics thermal hydraulics and materials This the Fourth Edition was prepared with these same general objectives in mind However during the past three decades the nuclear industry and university educational programs have matured considerably presenting some challenges in meeting the objectives of this book Nuclear power reactors have become much more complex with an accompanying growth in supporting technology University programs now offer separate courses covering such basic topics as reactor physics thermal hydraulics and materials Finally the general availability of inexpensive xv xvi Preface powerful micro and minicomputers has transformed design and analysis procedures so that sophisticated methods are now commonly used instead of earlier more approximate approaches *Elements of Nuclear Reactor Engineering* L. Wang Lau, 1974 Nuclear

Reactor Engineering Samuel Glasstone, Alexander Sesonske, 1981 *Nuclear Reactor Engineering: Reactor design basics* Samuel Glasstone, Alexander Sesonske, 1994 **Nuclear Reactor Engineering** Samuel Glasstone, Alexander

Sesonske, 2014-11-28 Dr Samuel Glasstone the senior author of the previous editions of this book was anxious to live until his ninetieth birthday but passed away in 1986 a few months short of this milestone I am grateful for the many years of stimulation received during our association and in preparing this edition have attempted to maintain his approach Previous editions of this book were intended to serve as a text for students and a reference for practicing engineers Emphasis was given to the broad perspective particularly for topics important to reactor design and operation with basic coverage provided in such supporting areas as neutronics thermal hydraulics and materials This the Fourth Edition was prepared with these same general objectives in mind However during the past three decades the nuclear industry and university educational programs have matured considerably presenting some challenges in meeting the objectives of this book Nuclear power reactors have become much more complex with an accompanying growth in supporting technology University programs now offer separate courses covering such basic topics as reactor physics thermal hydraulics and materials Finally the general availability of inexpensive xiii xiv Preface powerful micro and minicomputers has transformed design and analysis procedures so that sophisticated methods are now commonly used instead of earlier more approximate approaches

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Essential guide to analyzing nuclear energy systems with focus on reactor physics fuel cycle system dynamics thermal hydraulics and economics Nuclear Reactor Physics and Engineering highlights efforts in utilizing low enrichment uranium fuel as a substitute for carbon based fuels in energy generation and provides an overview of important aspects of nuclear reactor physics utilizing the neutron diffusion equation for major reactor designs and MATLAB software for system analysis with exercises illustrating key points and design parameters as supplementary material This revised and updated Second Edition reflects key findings of the 2023 National Academy of Sciences NAS report and discusses physical and engineering characteristics of advanced nuclear reactors especially in the form of small modular reactors that have the potential to provide enhanced safety and economics as well as effective long term management of used nuclear fuel in geological repositories Key topics explored in the updated edition of Nuclear Reactor Physics and Engineering include Impact of the use of high assay low enrichment uranium HALEU fuel as a new efficient nuclear fuel Advantages resulting from combined uses of light water reactor and sodium cooled fast reactor with fuel reprocessing Fundamental nuclear reactor physics nuclear reactor system analysis and lattice physics analysis for reactor cores Nuclear fuel cycle analysis nuclear plant simulation and control and management of used nuclear fuel Economic analysis of nuclear electricity and thermal hydraulic analysis of nuclear systems With a wealth of all new information detailing the state of the art in the field Nuclear Reactor Physics and Engineering is an invaluable reference on the subject for undergraduate and graduate students in nuclear engineering as well as practicing engineers involved with nuclear power plants

Nuclear Reactor Engineering Samuel Glasstone, 1998-06-01 Economic and regulatory pressures have yielded considerable progress in the science and technology of nuclear reactor design This practical reference has been revised and updated to include the latest engineering and operational developments and the likely course of future trends

Introduction to Nuclear Engineering, 1959

Nuclear Reactor Engineering Volume I Nuclear Engineering Fundamentals (2nd Edition) Bahram Nassersharif, 2024-08-22 Dive deep into the principles of nuclear engineering with the second edition of Nuclear Reactor Engineering Volume I Authored by Bahram Nassersharif this comprehensive guide bridges the gap between theory and practice providing a thorough exploration of nuclear processes reactor design and safety management Whether you are a student educator or professional in the field this book serves as an essential resource for mastering the fundamentals of nuclear engineering Key features include In depth coverage of nuclear fission radioactivity and reactor operation Updated chapters with refined content and corrections enhancing clarity and understanding Real world applications of nuclear engineering principles across energy production medical use and space exploration End of chapter problems designed to solidify knowledge and support practical problem solving This edition is not only an educational tool but a stepping stone to advanced studies in nuclear engineering addressing contemporary challenges and innovations that shape the future of this critical field

An Introduction to the Engineering of Fast Nuclear Reactors Anthony M. Judd, 2014-02-10 Designed for

graduate level engineering students and nuclear engineers who want to expand their knowledge of fast nuclear reactors

Nuclear Reactor Engineering, 4e Vol. I : Reactor Design Basics Glasstone/sesonske,1998 **Nuclear Energy Materials And Reactors - Volume I** Yassin A. Hassan,Robin A. Chaplin,2010-09-22 Nuclear Energy Materials and Reactors is a component of Encyclopedia of Energy Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Nuclear energy is a type of technology involving the controlled use of nuclear fission to release energy for work including propulsion heat and the generation of electricity The theme on Nuclear Energy Materials and Reactors discusses Fundamentals of Nuclear Energy Nuclear Physics Nuclear Interactions Nuclear Reactor Theory Nuclear Reactor Design Nuclear Reactor Kinetics Reactivity Changes Nuclear Power Plants Pressurized Water Reactors Boiling Water Reactors Pressurized Heavy Water Reactors Heavy Water Light Water Reactors Advanced Gas Cooled Reactors Light Water Graphite Reactors High Temperature Gas Cooled Reactors Pebble Bed Modular Reactor Radioactive Wastes Origins Classification and Management Nuclear Reactor Overview and Reactor Cycles The Nuclear Reactor Closed Cycle Safety of Boiling Water Reactors Supercritical Water Cooled Nuclear Reactors Review and Status The Gas Turbine Modular Helium Reactor Application of Risk Assessment to Nuclear Power Plants Production and Recycling Resources for Nuclear Fission These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers **Introduction to Nuclear Engineering** John R. Lamarsh,1983 Offering the most current and complete introduction to nuclear engineering available this book contains new information on French Russian and Japanese nuclear reactors All units have been revised to reflect current standards Includes discussions of new reactor types including the AP600 ABWR and SBWR as well as an extensive section on non US design reactors the nuclear Navy and its impact on the development of nuclear energy binding energy and such topics as the semi empirical mass formula and elementary quantum mechanics and solutions to the diffusion equation and a more general derivation of the point kinetics equation Topics in reactor safety include a complete discussion of the Chernobyl accident and an updated section on TMI and the use of computer codes in safety analysis For nuclear engineers **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

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