



Nuclear Reactor Engineering

Samuel Glasstone, Alexander Sesonske

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

Nuclear Reactor Engineering:

Elements of Nuclear Reactor Engineering L. Wang Lau, 1974 **Nuclear Reactor Engineering: Reactor design basics** Samuel Glasstone, Alexander Sesonske, 1994 Nuclear Reactor Engineering Samuel Glasstone, Alexander Sesonske, 1981 *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 *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 Nuclear Reactor Engineering Samuel Glasstone, Alexander Sesonske, 2014-05-14 **Introduction to Nuclear Engineering**, 1959 **Fundamentals of Nuclear Engineering** Brent J. Lewis, E. Nihan Onder, Andrew A.

Prudil, 2017-03-24 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 Reactor Physics and Engineering** John C. Lee, 2025-01-22 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 (Sesonske, Alexander), 1961

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Table of Contents Nuclear Reactor Engineering

1. Understanding the eBook Nuclear Reactor Engineering
 - The Rise of Digital Reading Nuclear Reactor Engineering
 - Advantages of eBooks Over Traditional Books
2. Identifying Nuclear Reactor Engineering
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Nuclear Reactor Engineering
 - User-Friendly Interface
4. Exploring eBook Recommendations from Nuclear Reactor Engineering
 - Personalized Recommendations
 - Nuclear Reactor Engineering User Reviews and Ratings
 - Nuclear Reactor Engineering and Bestseller Lists
5. Accessing Nuclear Reactor Engineering Free and Paid eBooks
 - Nuclear Reactor Engineering Public Domain eBooks
 - Nuclear Reactor Engineering eBook Subscription Services
 - Nuclear Reactor Engineering Budget-Friendly Options

6. Navigating Nuclear Reactor Engineering eBook Formats
 - ePub, PDF, MOBI, and More
 - Nuclear Reactor Engineering Compatibility with Devices
 - Nuclear Reactor Engineering Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Nuclear Reactor Engineering
 - Highlighting and Note-Taking Nuclear Reactor Engineering
 - Interactive Elements Nuclear Reactor Engineering
8. Staying Engaged with Nuclear Reactor Engineering
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Nuclear Reactor Engineering
9. Balancing eBooks and Physical Books Nuclear Reactor Engineering
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Nuclear Reactor Engineering
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Nuclear Reactor Engineering
 - Setting Reading Goals Nuclear Reactor Engineering
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Nuclear Reactor Engineering
 - Fact-Checking eBook Content of Nuclear Reactor Engineering
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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