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Nuclear Reactor Engineering: Reactor Design Basics v. 1

Glasstone, Samuel

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Nuclear Reactor Engineering Reactor Design Basics V 1

Thomas B. Kingery



Nuclear Reactor Engineering Reactor Design Basics V 1:

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

Technische Chemie Manfred Baerns, Arno Behr, Axel Brehm, Jürgen Gmehling, Kai-Olaf Hinrichsen, Hanns Hofmann, Ulfert Onken, Regina Palkovits, Albert Renken, 2014-01-28 Das grundlegende Lehrbuch der Technischen Chemie mit hohem Praxisbezug jetzt in der zweiten Auflage beschreibt didaktisch und erst gelungen die Bereiche chemische Reaktionstechnik Grundoperationen Verfahrensentwicklung sowie chemische Prozesse alle Kapitel wurden komplett bearbeitet und aktualisiert NEU umfangreiches Kapitel über Katalyse als Schlüsseltechnologie in der chemischen Industrie Homogene und Heterogene Katalyse aber auch Biokatalyse werden ausführlich behandelt zahlreiche Fragen als Zusatzmaterial für Studenten online auf Wiley Vch erhältlich unterstützt das Lernen durch zahlreiche im Text eingestreute Rechenbeispiele inklusive Lösung setzt neben einem grundlegenden chemischen Verständnis und Grundkenntnissen der Physikalischen Chemie und Mathematik kein Spezialwissen voraus Ideal für Studierende der Chemie des Chemieingenieurwesens und der Verfahrenstechnik in Bachelor und Masterstudiengängen Begleitmaterial für Dozenten verfügbar unter www.wiley-vch.de/textbooks Aus Rezensionen zur Voraufgabe Endlich gibt es ein neues Lehrbuch auf Deutsch das den Kernbereich der technischen Chemie umfassend abdeckt Das Buch vereinigt auf einzigartige Weise das grundlegende Wissen aus den tragenden Säulen der technischen Chemie Technische Chemie deckt somit den Inhalt mehrerer iterativer Lehrbücher ab Hervorragend sind Sicherheitsaspekte in die Kapitel des Buches eingeflochten Bei der Erarbeitung des Stoffs sind die zahlreichen Rechenbeispiele und erst hilfreich deren Musterlösungen leicht nachzuvollziehen sind Insgesamt ist das Buch und erst ansprechend und gelungen und hat das Potential das grundlegende Standardwerk für das Studium in technischer Chemie sowie ein wichtiges Nachschlagewerk für die berufliche Praxis zu werden Nachrichten aus der Chemie

Neben der Darstellung der Grundlagen bestand ein Ziel der Autoren auch darin Verknüpfungen zwischen den verschiedenen Sachgebieten aufzuzeigen. Dies ist bestens gelungen. Das gesamte Gebiet der technischen Chemie und der Verfahrenstechnik wird grundlegend jedoch in komprimierter Form dargeboten. Filtrieren und Separieren Integral Methods in Science and Engineering, Volume 2 Christian Constanda, Matteo Dalla Riva, Pier Domenico Lamberti, Paolo Musolino, 2017-09-08 This contributed volume contains a collection of articles on the most recent advances in integral methods. The second of two volumes, this work focuses on the applications of integral methods to specific problems in science and engineering. Written by internationally recognized researchers, the chapters in this book are based on talks given at the Fourteenth International Conference on Integral Methods in Science and Engineering held July 25-29, 2016 in Padova, Italy. A broad range of topics is addressed, such as Boundary elements, Transport problems, Option pricing, Gas reservoirs, Electromagnetic scattering. This collection will be of interest to researchers in applied mathematics, physics, and mechanical and petroleum engineering, as well as graduate students in these disciplines and to other professionals who use integration as an essential tool in their work.

Nuclear Energy Raymond L. Murray, 2008-11-26 Nuclear Energy is one of the most popular texts ever published on basic nuclear physics systems and applications of nuclear energy. This newest edition continues the tradition of offering a holistic treatment of everything the undergraduate engineering student needs to know in a clear and accessible way. Presented is a comprehensive overview of radioactivity, radiation protection, nuclear reactors, waste disposal, and nuclear medicine. New coverage on nuclear safety concerns following 9/11, including radiation and terrorism, nuclear plant security, and use of nuclear techniques to detect weapons materials. New facts on nuclear waste management, including the Yucca Mountain repository. New developments in the use of nuclear-powered systems for generating cheap and abundant hydrogen from water using nuclear technology. New information on prospects for new nuclear power reactors and their applications for electricity and desalination. New end-of-chapter Exercises and Answers, lists of Internet resources, and updated references.

Nuclear Energy Encyclopedia Thomas B. Kingery, 2011-08-10 The A to Z reference resource for nuclear energy information. A significant milestone in the history of nuclear technology, Nuclear Energy Encyclopedia: Science, Technology, and Applications is a comprehensive and authoritative reference guide written by a committee of the world's leading energy experts. The encyclopedia is packed with cutting-edge information about where nuclear energy science and technology came from, where they are today, and what the future may hold for this vital technology. Filled with figures, graphs, diagrams, formulas, and photographs, which accompany the short, easily digestible entries, the book is an accessible reference work for anyone with an interest in nuclear energy and includes coverage of safety and environmental issues that are particularly topical in light of the Fukushima Daiichi incident. A definitive work on all aspects of the world's energy supply, the Nuclear Energy Encyclopedia brings together decades of knowledge about energy sources and technologies ranging from coal and oil to biofuels and wind and ultimately nuclear power. Basics of Flow Microreactor Synthesis Jun-ichi Yoshida, 2015-05-08

This book provides in a concise form the principles and applications of flow microreactors in organic and polymer synthesis. Recently it became possible to conduct chemical reactions in a flow reactor in laboratory synthesis. The flow microreactor enables reactions that cannot be done in batch, opening a new possibility of chemical synthesis. Extremely fast mass and heat transfer and high resolution residence time control are responsible for the remarkable features of that process. The book is not an exhaustive compilation of all known examples of flow microreactor synthesis. Rather, it is a sampling of sufficient variety to illustrate the concept, the scope, and the current state of flow microreactor synthesis. Researchers both in academia and in industry will be interested in this book because the topics encompassed by the book are vigorously studied in many university and company laboratories today.

Walford's Guide to Reference Material: Science and technology Albert John Walford, Library Association, 1999. A revised and updated guide to reference material. It contains selective and evaluative entries to guide the enquirer to the best source of reference in each subject area, be it journal article, CD-ROM, on-line database, bibliography, encyclopaedia, monograph, or directory. It features full critical annotations and reviewers' comments and comprehensive author, title, and subject indexes. The contents include mathematics, astronomy, and surveying, physics, chemistry, earth sciences, palaeontology, anthropology, biology, natural history, botany, zoology, patents, and interventions, medicine, engineering, transport, vehicles, agriculture, and livestock, household management, communication, chemical industry, manufactures, industries, trades, and crafts, and the building industry.

Standard Handbook of Powerplant Engineering Thomas C. Elliott, Kao Chen, Robert Swanekamp, 2012-09-17. Extensively revised and updated, this new edition of a classic resource provides powerplant engineers with a full range of information from basic operations to leading edge technologies, including steam generation, turbines, and diesels, fuels and fuel handling, pollution control, plant electrical systems, and instrumentation and control. New material covers various energy resources for power generation, nuclear plant systems, hydroelectric power stations, alternative and cogeneration energy plants, and environmental controls. With over 600 drawings, diagrams, and photographs, it offers engineers and technicians the information needed to keep powerplants operating smoothly into the 21st century.

Nuclear Principles in Engineering Tatjana Jevremovic, 2005-07-01. Nuclear engineering plays an important role in various industrial, health care, and energy processes. Modern physics has generated its fundamental principles. A growing number of students and practicing engineers need updated material to access the technical language and content of nuclear principles. *Nuclear Principles in Engineering* is written for students, engineers, physicians, and scientists who need up-to-date information in basic nuclear concepts and calculation methods, using numerous examples and illustrative computer application areas. Drawing upon years of practical experience and research, Tatjana Jevremovic covers nuclear principles as they apply to power production, propulsion, electric generators for space applications, diagnostics, and treatment in medicine, imaging, homeland security.

Physics of Nuclear Reactors P. Mohanakrishnan, Om Pal Singh, K. Umasankari, 2021-05-19. *Physics of Nuclear Reactors* presents a comprehensive analysis of nuclear reactor physics. Editors P

Mohanakrishnan Om Pal Singh and Kannan Umasankari and a team of expert contributors combine their knowledge to guide the reader through a toolkit of methods for solving transport equations understanding the physics of reactor design principles and developing reactor safety strategies The inclusion of experimental and operational reactor physics makes this a unique reference for those working and researching nuclear power and the fuel cycle in existing power generation sites and experimental facilities The book also includes radiation physics shielding techniques and an analysis of shield design neutron monitoring and core operations Those involved in the development and operation of nuclear reactors and the fuel cycle will gain a thorough understanding of all elements of nuclear reactor physics thus enabling them to apply the analysis and solution methods provided to their own work and research This book looks to future reactors in development and analyzes their status and challenges before providing possible worked through solutions Cover image Kaiga Atomic Power Station Units 1 4 Karnataka India In 2018 Unit 1 of the Kaiga Station surpassed the world record of continuous operation at 962 days Image courtesy of DAE India Includes methods for solving neutron transport problems nuclear cross section data and solutions of transport theory Dedicates a chapter to reactor safety that covers mitigation probabilistic safety assessment and uncertainty analysis Covers experimental and operational physics with details on noise analysis and failed fuel detection

Nuclear Reactor Technology Development and Utilization Salah Ud-Din Khan,Alexander V. Nakhabov,2020-06-16 Nuclear Reactor Technology Development and Utilization presents the theory and principles of the most common advanced nuclear reactor systems and provides a context for the value and utilization of nuclear power in a variety of applications both inside and outside a traditional nuclear setting As countries across the globe realize their plans for a sustainable energy future the need for innovative nuclear reactor design is increasing and this book will provide a deep understanding of how these technologies can aid in a region s goal for clean and reliable energy Dr Khan and Dr Nakhabov alongside their team of expert contributors discuss a variety of important topics including nuclear fuel cycles plant decommissioning and hybrid energy systems while considering a variety of diverse uses such as nuclear desalination hydrogen generation and radioisotope production Knowledge acquired enables the reader to conduct further research in academia and industry and apply the latest design development integration safety and economic guidance to their work and research Combines reactor fundamentals with a contemporary look at evolving trends in the design of advanced reactors and their application to both nuclear and non nuclear uses Analyses the latest research and uses of hybrid systems which bring together nuclear technology with renewable energy technologies Presents applications economic factors and an analysis of sustainability factors in one comprehensive resource

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Organic Synthesis Engineering Laxmangudi Krishnamurthy

Doraiswamy, 2001 This book will formally launch organic synthesis engineering as a distinctive field in the armory of the reaction engineer Its main theme revolves around two developments catalysis and the role of process intensification in enhancing overall productivity Each of these two subjects are becoming increasingly useful in organic synthesis engineering especially in the production of medium and small volume chemicals and enhancing reaction rates by extending laboratory techniques such as ultrasound phase transfer catalysts membrane reactor and microwaves to industrial scale production This volume describes the applications of catalysis in organic synthesis and outlines different techniques of reaction rate and or selectivity enhancement against a background of reaction engineering principles for both homogeneous and heterogeneous systems Chemical Process Engineering, Volume 2 A. Kayode Coker, Rahmat Sotudeh-Gharebagh, 2022-07-20 CHEMICAL PROCESS ENGINEERING Written by one of the most prolific and respected chemical engineers in the world and his co author also a well known and respected engineer this two volume set is the new standard in the industry offering engineers and students alike the most up to date comprehensive and state of the art coverage of processes and best practices in the field today This new two volume set explores and describes integrating new tools for engineering education and practice for better utilization of the existing knowledge on process design Useful not only for students university professors and practitioners especially process chemical mechanical and metallurgical engineers it is also a valuable reference for other engineers consultants technicians and scientists concerned about various aspects of industrial design The text can be considered as complementary to process design for senior and graduate students as well as a hands on reference work or refresher for engineers at entry level The contents of the book can also be taught in intensive workshops in the oil gas petrochemical biochemical and process industries The book provides a detailed description and hands on experience on process design in chemical engineering and it is an integrated text that focuses on practical design with new tools such as Microsoft Excel spreadsheets and UniSim simulation software Written by two of the industry s most trustworthy and well known authors this book is the new standard in chemical biochemical pharmaceutical petrochemical and petroleum refining Covering design analysis simulation integration and perhaps most importantly the practical application of Microsoft Excel UniSim software this is the most comprehensive and up to date coverage of all of the latest developments in the industry It is a must have for any engineer or student s library **Comprehensive Nuclear Materials**, 2020-07-22 Materials in a nuclear environment are exposed to extreme conditions of radiation temperature and or corrosion and in many cases the combination of these makes the material behavior very different from conventional materials This is evident for the four major technological challenges the nuclear technology domain is facing currently i long term operation of existing Generation II nuclear power plants ii the design of the next generation reactors Generation IV iii the construction of the ITER fusion reactor in Cadarache France iv and the intermediate and final disposal of nuclear waste In order to address these challenges engineers and designers need to know the properties of a wide variety of materials under these conditions and to understand

the underlying processes affecting changes in their behavior in order to assess their performance and to determine the limits of operation Comprehensive Nuclear Materials Second Edition Seven Volume Set provides broad ranging validated summaries of all the major topics in the field of nuclear material research for fission as well as fusion reactor systems Attention is given to the fundamental scientific aspects of nuclear materials fuel and structural materials for fission reactors waste materials and materials for fusion reactors The articles are written at a level that allows undergraduate students to understand the material while providing active researchers with a ready reference resource of information Most of the chapters from the first Edition have been revised and updated and a significant number of new topics are covered in completely new material During the ten years between the two editions the challenge for applications of nuclear materials has been significantly impacted by world events public awareness and technological innovation Materials play a key role as enablers of new technologies and we trust that this new edition of Comprehensive Nuclear Materials has captured the key recent developments Critically reviews the major classes and functions of materials supporting the selection assessment validation and engineering of materials in extreme nuclear environments Comprehensive resource for up to date and authoritative information which is not always available elsewhere even in journals Provides an in depth treatment of materials modeling and simulation with a specific focus on nuclear issues Serves as an excellent entry point for students and researchers new to the field

The 2011 Fukushima Daiichi Nuclear Power Plant Accident Peter George Martin, 2019-04-23 This PhD sought to determine the mechanisms for the reactor explosions by mapping collecting and analysing samples from across the area of Japan that received radioactive fallout from the explosions In doing this the author conducted significant fieldwork in the restricted access fallout zone using ground and novel UAV based mapping of radiation to identify hot spot areas for sample collecting but also using these tools to verify the efficacy of the clean up operations ongoing in the prefecture Such fieldwork was both technically pioneering for its use of UAVs drones but also selfless in terms of bravely entering a nuclear danger area to collect samples for the greater benefit of the scientific community

Multiphysics Modeling With Finite Element Methods William B J Zimmerman, 2006-10-25 Finite element methods for approximating partial differential equations that arise in science and engineering analysis find widespread application Numerical analysis tools make the solutions of coupled physics mechanics chemistry and even biology accessible to the novice modeler Nevertheless modelers must be aware of the limitations and difficulties in developing numerical models that faithfully represent the system they are modeling This textbook introduces the intellectual framework for modeling with Comsol Multiphysics a package which has unique features in representing multiply linked domains with complex geometry highly coupled and nonlinear equation systems and arbitrarily complicated boundary auxiliary and initial conditions But with this modeling power comes great opportunities and great perils Progressively in the first part of the book the novice modeler develops an understanding of how to build up complicated models piecemeal and test them modularly The second part of the

book introduces advanced analysis techniques The final part of the book deals with case studies in a broad range of application areas including nonlinear pattern formation thin film dynamics and heterogeneous catalysis composite and effective media for heat mass conductivity and dispersion population balances tomography multiphase flow electrokinetic microfluidic networks plasma dynamics and corrosion chemistry As a revision of Process Modeling and Simulation with Finite Element Methods this book uses the very latest features of Comsol Multiphysics There are new case studies on multiphase flow with phase change plasma dynamics electromagnetohydrodynamics microfluidic mixing and corrosion In addition major improvements to the level set method for multiphase flow to ensure phase conservation is introduced

Structured Catalysts and Reactors Andrzej Cybulski, 1997-10-24 Offering discussions of structured catalysts and up to date approaches to catalytic processes this work describes monolithic membrane and arranged catalysts for use in two and three phase processes It examines catalyst preparation characterization process development modelling and optimization as well as reactor design and operation

Biotechnology and Biochemical Engineering Prasanna B. D., Sathyanarayana N Gummadi, Praveen V. Vadlani, 2016-09-20 This book serves to highlight the seamless integration of the sciences leading to sustainable technologies Chemical engineering is one of the major disciplines catering to the societal needs in the fields of energy environment and materials The chapters of this book have been selected to encompass the latest in industrial biotechnology and biochemical engineering principles and applications The chapters are included here after careful review for content and depth The book focuses on the relatively new areas of molecular biotechnology and nanotechnology which have a strong impact at the fundamental and process levels in chemical engineering The book also covers analytical procedures experimental techniques and process analysis in bioprocessing bioremediation green separation methods and emerging nanoparticle applications It should be useful to students academicians and practitioners alike

Piping Design Handbook John J. McKetta Jr, 1992-01-29 This encyclopedic volume covers almost every phase of piping design presenting procedures in a straightforward way Written by 82 world experts in the field the Piping Design Handbook details the basic principles of piping design explores pipeline shortcut methods in an in depth manner and presents expanded rules of thumb for the piping design

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