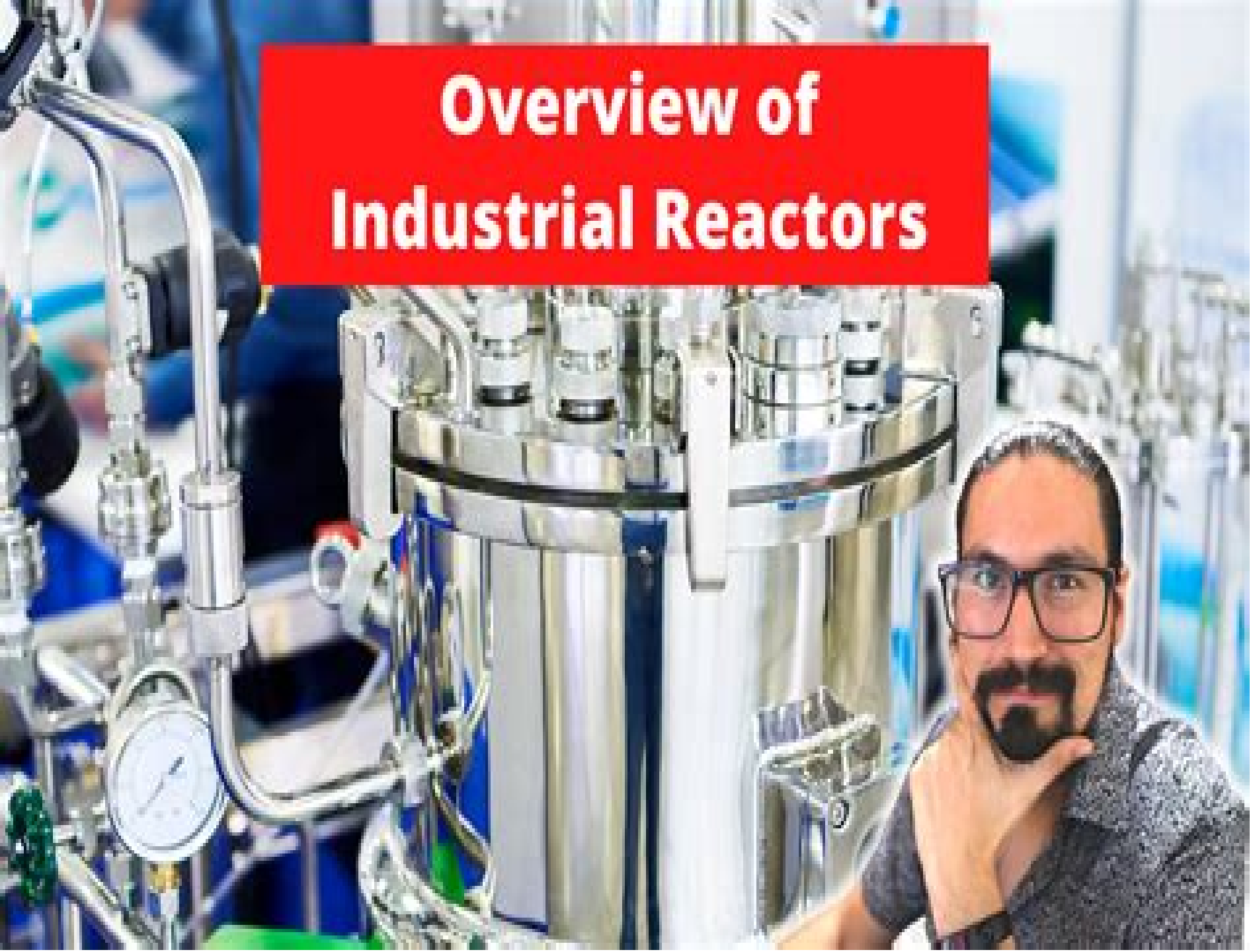


Overview of Industrial Reactors



Chemical Reaction Engineering And Reactor Technology Chemical Industries

Long Zhang, Changsheng Gong, Dai Bin

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Chemical Reaction Engineering and Reactor Technology Tapio O. Salmi, Jyri-Pekka Mikkola, Johan P. Wærn, 2011-07-01

The role of the chemical reactor is crucial for the industrial conversion of raw materials into products and numerous factors must be considered when selecting an appropriate and efficient chemical reactor. Chemical Reaction Engineering and Reactor Technology defines the qualitative aspects that affect the selection of an industrial chemical reactor and couples various reactor models to case specific kinetic expressions for chemical processes. Offering a systematic development of the chemical reaction engineering concept, this volume explores essential stoichiometric, kinetic and thermodynamic terms needed in the analysis of chemical reactors: Homogeneous and heterogeneous reactors, Residence time distributions and non ideal flow conditions in industrial reactors, Solutions of algebraic and ordinary differential equation systems, Gas and liquid phase diffusion coefficients and gas film coefficients, Correlations for gas liquid systems, Solubilities of gases in liquids, Guidelines for laboratory reactors and the estimation of kinetic parameters. The authors pay special attention to the exact formulations and derivations of mass energy balances and their numerical solutions. Richly illustrated and containing exercises and solutions covering a number of processes from oil refining to the development of specialty and fine chemicals, the text provides a clear understanding of chemical reactor analysis and design.

Chemical Reaction Engineering and Reactor Technology, Second Edition Tapio O. Salmi, Jyri-Pekka Mikkola, Johan P. Wærn, 2019-07-11

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Jian-Feng Chen, 2025-03-04. HiGee Chemical Reaction Engineering systematically discusses the fundamentals, principles, and methods of molecular mixing and reaction process intensification. The book demonstrates the implementation approach, process, and effectiveness of HiGee chemical reaction engineering through novel industrial case studies that help industrial technicians select reaction intensification technology routes more scientifically. Sections cover the innovation and development process of HiGee chemical reaction engineering, hydrodynamics behavior in HiGee reactors, equipment design principles and methods, multiphase reaction of liquid-liquid, gas-liquid, gas-solid, gas-liquid-solid, and reactive crystallization process intensification principles and effectiveness. HiGee Chemical Reaction Engineering is a systematic summary of several national award and key projects such as the State Technological Innovation Award, State Science and Technology Advancement Award, National Natural Science Foundation of China, National Key R & D Program of China, National 863 Program of China, National 973 Program of China, and also some international cooperation. Handles high gravity process intensification technology. Covers theoretical innovation in multiphase reaction intensified by high gravity. Provides engineering application cases in chemical engineering, materials science, ocean engineering, and environmental engineering. Provides systematic understanding of high gravity process intensification through theories and industrial applications.

Microstructured Devices for Chemical Processing Madhvanand N. Kashid, Albert Renken, Liubov

Kiwi-Minsker, 2014-09-15. Faster, cheaper, and environmentally friendly: these are the criteria for designing new reactions, and this is the challenge faced by many chemical engineers today. Based on courses taught by the authors, this advanced textbook discusses opportunities for carrying out reactions on an industrial level in a technically controllable, sustainable

cost-effective and safe manner Adopting a practical approach it describes how miniaturized devices mixers reactors heat exchangers and separators are used successfully for process intensification focusing on the engineering aspects of microstructured devices such as their design and main characteristics for homogeneous and multiphase reactions It addresses the conditions under which microstructured devices are beneficial how they should be designed and how such devices can be integrated in an existing chemical process Case studies show how the knowledge gained can be applied for particular processes The textbook is essential for master and doctoral students as well as for professional chemists and chemical engineers working in this area New Developments and Application in Chemical Reaction Engineering Hyun-Ku

Rhee, In-Sik Nam, Jong Moon Park, 2006-05-10 This Proceedings of APCRE 05 contains the articles that were presented at the 4th Asia Pacific Chemical Reaction Engineering Symposium APCRE 05 held at Gyeongju Korea between June 12 and June 15 2005 with a theme of New Opportunities of Chemical Reaction Engineering in Asia Pacific Region Following the tradition of APCRE Symposia and ISCRE the scientific program encompassed a wide spectrum of topics including not only the traditional areas but also the emerging fields of chemical reaction engineering into which the chemical reaction engineers have successfully spearheaded and made significant contributions in recent years In addition to the 190 papers being accepted six plenary lectures and 11 invited lectures are placed in two separate chapters in the front Provides an overview of new developments and application in chemical reaction engineering Topics include traditional and emerging fields Papers reviewed by experts in the field *Chemistry for Sustainable Technologies* Neil Winterton, 2021-02-04 Following the success of the first edition this fully updated and revised book continues to provide an interdisciplinary introduction to sustainability issues in the context of chemistry and chemical technology Its prime objective is to equip young chemists and others to more fully to appreciate defend and promote the role that chemistry and its practitioners play in moving towards a society better able to control manage and ameliorate its impact on the ecosphere To do this it is necessary to set the ideas concepts achievements and challenges of chemistry and its application in the context of its environmental impact past present and future and of the changes needed to bring about a more sustainable yet equitable world Progress since 2010 is reflected by the inclusion of the latest research and thinking selected and discussed to put the advances concisely in a much wider setting historic scientific technological intellectual and societal The treatment also examines the complexities and additional challenges arising from public and media attitudes to science and technology and associated controversies and from the difficulties in reconciling environmental protection and global development While the book stresses the central importance of rigour in the collection and treatment of evidence and reason in decision making to ensure that it meets the needs of an extensive community of students it is broad in scope rather than deep It is therefore appropriate for a wide audience including all practising scientists and technologists *Green Chemistry and Technologies* Long Zhang, Changsheng Gong, Dai Bin, 2018-09-24 The book gives a systematic introduction to green chemistry principles and technologies in

inorganic and organic chemistry polymer sciences and pharmaceutical industry It also discusses the use of biomass and marine resources for synthesis as well as renewable energy utilization and the concepts and evaluation of recycling economy and eco industrial parks

Multiphase Reactor Engineering for Clean and Low-Carbon Energy Applications Yi Cheng, Fei Wei, Yong Jin, 2017-02-21 Provides a comprehensive review on the brand new development of several multiphase reactor techniques applied in energy related processes Explains the fundamentals of multiphase reactors as well as the sophisticated applications Helps the reader to understand the key problems and solutions of clean coal conversion techniques Details the emerging processes for novel refining technology clean coal conversion techniques low cost hydrogen productions and CO₂ capture and storage Introduces current energy related processes and links the basic principles of emerging processes to the features of multiphase reactors providing an overview of energy conversion in combination with multiphase reactor engineering Includes case studies of novel reactors to illustrate the special features of these reactors

Chemical Reaction Engineering Tapio Salmi, Johan Wärnå, José Rafael Hernández Carucci, César A. de Araújo Filho, 2020-03-23 This book illustrates how models of chemical reactors are built up in a systematic manner step by step The authors also outline how the numerical solution algorithms for reactor models are selected as well as how computer codes are written for numerical performance with a focus on MATLAB and Fortran Examples solved in MATLAB and simulations performed in Fortran are included for demonstration purposes

Process Technology André B. de Haan, Johan T. Padding, 2022-03-07 The book provides a general overview about process technology It focuses on the structure and development of production processes main technological operations and some important aspects of process economics For the technological operations the authors emphasize operating principles reasons for application and available industrial equipment

Fundamentals of Industrial Catalytic Processes C. H. Bartholomew, Robert J. Farrauto, 2011-11-30 Catalysis is central to the chemical industry as it is directly or involved in the production of almost all useful chemical products In this book the authors present the definitive account of industrial catalytic processes Throughout Fundamentals of Industrial Catalytic Processes the information is illustrated with many case studies and problems This book is valuable to anyone wanting a clear account of industrial catalytic processes but is particularly useful to industrial and academic chemists and engineers and graduate working on catalysis This book also Covers fundamentals of catalytic processes including chemistry catalyst preparation properties and reaction engineering Addresses heterogeneous catalytic processes employed by industry Provides detailed data on existing catalysts and catalytic reactions process design and chemical engineering Covers catalysts used in fuel cells

Chemical Reaction Engineering and Reactor Technology Tapio Salmi, 2011 Catalysis James J Spivey, Yi-Fan Han, 2018-05-03 Catalysts are required for a variety of applications Industrialists and academics are increasingly challenged to find cost effective and environmentally benign catalysts to use This volume looks at modern approaches to catalysis and critically reviews the extensive literature on areas such as catalysts derived from waste materials determining the pore

structure of activated carbon by nitrogen gas adsorption and a new tool to explore catalytic reaction mechanisms the catalytic shock tube With an emphasis on interdisciplinary content this book is aimed at catalytic science and engineering research communities

Chemical Engineering and Chemical Process Technology - Volume III Ryzhard Pohorecki, John Bridgwater, M. Molzahn, Rafiqul Gani and Crispulo Gallegos, 2010-11-30 Chemical Engineering and Chemical Process Technology is a theme component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty Encyclopedias Chemical engineering is a branch of engineering dealing with processes in which materials undergo changes in their physical or chemical state These changes may concern size energy content composition and or other application properties Chemical engineering deals with many processes belonging to chemical industry or related industries petrochemical metallurgical food pharmaceutical fine chemicals coatings and colors renewable raw materials biotechnological etc and finds application in manufacturing of such products as acids alkalis salts fuels fertilizers crop protection agents ceramics glass paper colors dyestuffs plastics cosmetics vitamins and many others It also plays significant role in environmental protection biotechnology nanotechnology energy production and sustainable economical development The Theme on Chemical Engineering and Chemical Process Technology deals in five volumes and covers several topics such as Fundamentals of Chemical Engineering Unit Operations Fluids Unit Operations Solids Chemical Reaction Engineering Process Development Modeling Optimization and Control Process Management The Future of Chemical Engineering Chemical Engineering Education Main Products which are then expanded into multiple subtopics each as a chapter These five 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 and NGOs

Biodiesel Technology and Applications Inamuddin, Mohd Imran Ahamed, Rajender Boddula, Mashallah Rezakazemi, 2021-06-16 BIODIESEL This outstanding new volume provides a comprehensive overview on biodiesel technologies covering a broad range of topics and practical applications edited by one of the most well respected and prolific engineers in the world and his team Energy technologies have attracted great attention due to the fast development of sustainable energy Biodiesel technologies have been identified as the sustainable route through which overdependence on fossil fuels can be reduced Biodiesel has played a key role in handling the growing challenge of a global climate change policy Biodiesel is defined as the monoalkyl esters of vegetable oils or animal fats Biodiesel is a cost effective renewable and sustainable fuel that can be made from vegetable oils and animal fats Compared to petroleum based diesel biodiesel would offer a non toxicity biodegradability improved air quality and positive impact on the environment energy security safe to handle store and transport and so on Biodiesels have been used as a replacement of petroleum diesel in transport vehicles heavy duty trucks locomotives heat oils hydrogen production electricity generators agriculture mining construction and forestry equipment This book describes a comprehensive overview covering a broad

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Chemical Reaction Engineering L.K. Doraiswamy, Deniz Uner, 2013-07-15 Filling a longstanding gap for graduate courses in the field Chemical Reaction Engineering Beyond the Fundamentals covers basic concepts as well as complexities of chemical reaction engineering including novel techniques for process intensification The book is divided into three parts Fundamentals Revisited Building on Fundamentals and Beyond

Tenth International Symposium on Chemical Reaction Engineering J. R. Bourne, W. Regenass, W. Richarz, 2017-05-04 ISCRE 10 Tenth International Symposium on Chemical Reaction Engineering documents the proceedings of the symposium which brought together experts from all over the world to discuss developments in CRE Efforts were made to cover high added value substances and to encourage papers from industry Some success was achieved but there remain significant gaps between Chemists and Chemical Engineers when considering high added value products as well as between researchers and practitioners of CRE The volume begins with plenary papers covering topics such as challenges in reactor modeling bioreactor engineering the design of reaction systems for specialty organic chemicals This is followed by papers presented during the eight technical sessions Technical session A focused on the modeling and control of chemical reactions Technical session B was devoted to studies on biotechnology Technical session C covered mixing while Technical session D dealt with special reactor systems and chemicals The papers in Technical session E examined reactions for emission control and recycling Technical session F covered the safety aspects of CRE Technical session G focused on the experiments with multiphase reactions while Technical session H dealt with catalytic reactors

Engineering Catalysis Dmitry Yu. Murzin, 2020-02-10 The book illuminates various aspects of heterogeneous catalysis engineering from catalysis design catalyst preparation and characterization reaction kinetics mass transfer and catalytic reactors to the implementation of catalysts in chemical technology Aimed at graduate students it is also a useful resource for professionals working in research and development

Computer-Aided Design of Catalysts Robert Becker, 2020-08-18 This volume provides an update on

recent developments in computer aided design and modeling of catalysts for a variety of important industrial applications
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