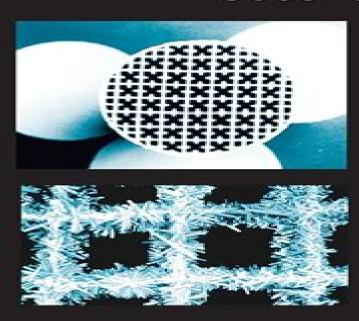
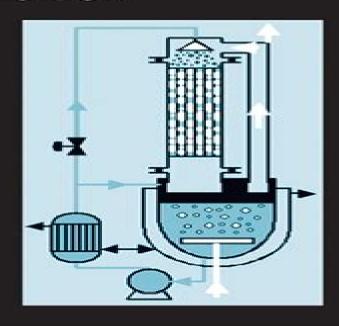
Structured Catalysts and Reactors

Second Edition





edited by Andrzej Cybulski Jacob A. Moulijn



Structured Catalysts And Reactors

Basudeb Saha

Structured Catalysts And Reactors:

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 2nd International Conference on Structured Catalysts and Reactors ICOSCAR-2 International Conference on Structured Catalysts and Reactors. 2, 2005, Delft, 2005 **Structured Catalysts and** Multiphase Catalytic Reactors Zeynep Ilsen Önsan, Ahmet Kerim Avci, 2016-06-09 Provides a holistic approach to multiphase catalytic reactors from their modeling and design to their applications in industrial manufacturing of chemicals Covers theoretical aspects and examples of fixed bed fluidized bed trickle bed slurry monolith and microchannel reactors Includes chapters covering experimental techniques and practical guidelines for lab scale testing of multiphase reactors Includes mathematical content focused on design equations and empirical relationships characterizing different multiphase reactor types together with an assortment of computational tools Involves detailed coverage of multiphase reactor applications such as Fischer Tropsch synthesis fuel processing for fuel cells hydrotreating of oil fractions and biofuels Catalytic Reactors Basudeb Saha, 2015-12-18 Catalytic Reactors presents several key aspects of reactor processing design in Chemical and Process Engineering Starting with the fundamental science across a broad interdisciplinary field this graduate level textbook offers a concise overview on reactor and process design for students scientists and practitioners new to the field This book aims to collate into a comprehensive and well informed work of leading researchers from north America western Europe and south east Asia The editor and international experts discuss state of the art applications of multifunctional reactors biocatalytic membrane reactors micro flow reactors industrial catalytic reactors micro trickle bed reactors and multiphase catalytic reactors. The use of catalytic reactor technology is essential for the economic viability of the chemical manufacturing industry The importance of Chemical and Process Engineering and efficient design of reactors are another focus of the book Especially the combination of advantages from both catalysis and chemical reaction technology for optimization and intensification as essential factors in the future development of reactors and processes are discussed Furthermore options that can drastically influence reaction processes e g choice of catalysts alternative reaction pathways mass and heat transfer effects flow regimes and inherent design of catalytic reactors are reviewed in detail Focuses on the state of the art applications of catalytic reactors and optimization in the design and operation of industrial catalytic reactors Insights into transfer of knowledge from laboratory science to industry For students and researchers in Chemical and Mechanical Engineering Chemistry Industrial Catalysis and practising Engineers **Structured Glass-Fiber Catalysts** Andrey Zagoruiko, Sergey Lopatin, 2019-11-21 Structured Glass Fiber Catalysts discusses the synthesis of advanced glass fiber catalysts for various emerging applications investigation of their properties and development of the engineering basis

required for their wide practical application This book describes how to create and use such catalysts for different chemical reactions It discusses how to efficiently arrange them into structured catalytic cartridges and gives examples of their successful application for purification of waste gases from different hazardous contaminants and environmentally safe combustion of fuels It covers nanosize surface science fundamentals through large scale commercial catalytic reactors This book is aimed at researchers and engineers in the fields of chemical engineering industrial engineering and materials Re-Engineering the Chemical Processing Plant Andrzej Stankiewicz, Jacob A. Moulijn, 2018-12-14 The first guide to compile current research and frontline developments in the science of process intensification PI Re Engineering the Chemical Processing Plant illustrates the design integration and application of PI principles and structures for the development and optimization of chemical and industrial plants This volume updates professionals on emerging PI equipment and methodologies to promote technological advances and operational efficacy in chemical biochemical and engineering environments and presents clear examples illustrating the implementation and application of specific process intensifying equipment and methods in various commercial arenas **New and Future Developments in Catalysis** Steven L Suib, 2013-07-17 New and Future Developments in Catalysis is a package of seven books that compile the latest ideas concerning alternate and renewable energy sources and the role that catalysis plays in converting new renewable feedstock into biofuels and biochemicals Both homogeneous and heterogeneous catalysts and catalytic processes will be discussed in a unified and comprehensive approach There will be extensive cross referencing within all volumes The various sources of environmental pollution are the theme of this volume The volume lists all current environmentally friendly catalytic chemical processes used for environmental remediation and critically compares their economic viability Offers in depth coverage of all catalytic topics of current interest and outlines future challenges and research areas A clear and visual description of all parameters and conditions enabling the reader to draw conclusions for a particular case Outlines the catalytic processes applicable to energy generation and design of green processes Heterogeneous Catalysis for Energy Applications Tomas R. Reina, Jose A. Odriozola, 2020-09-11 This book aims to provide an overview of the design limitations and challenges of heterogeneous catalysts for energy applications **Synthetic Natural Gas** Tilman J. Schildhauer, Serge M. A. Biollaz, 2016-06-15 Provides an overview of the different pathways to produce Synthetic Natural Gas Covers technological and economic aspects of this Synthetic Natural Gas Details the most popular technologies and state of the art of SNG technologies while also covering recent and future research trends Covers the main process steps during conversion of coal and dry biomass to SNG gasification gas cleaning methanation and gas upgrading Describes a number of novel processes for the production of SNG with their specific combination of process steps as well as the boundary conditions Covers important technical aspects of Power to Gas processes

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