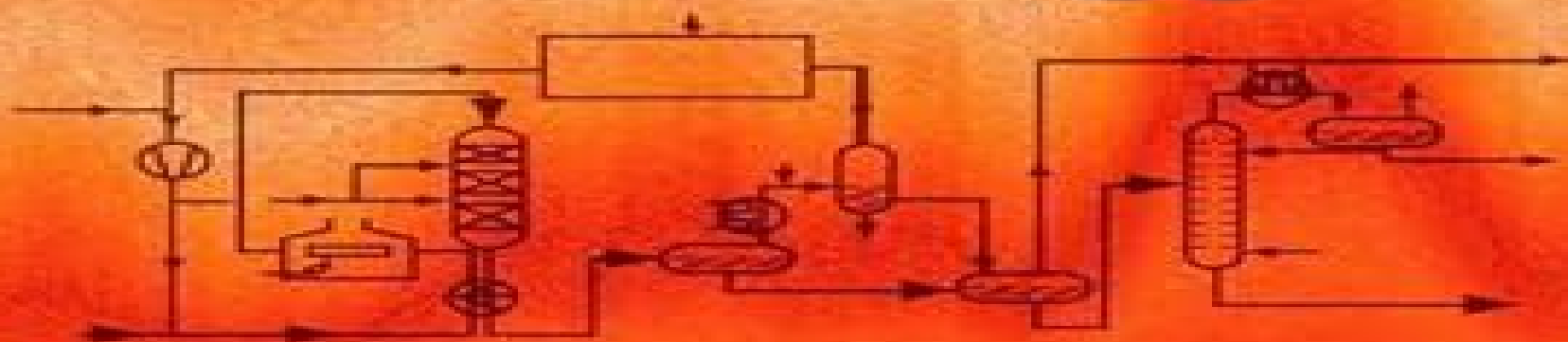
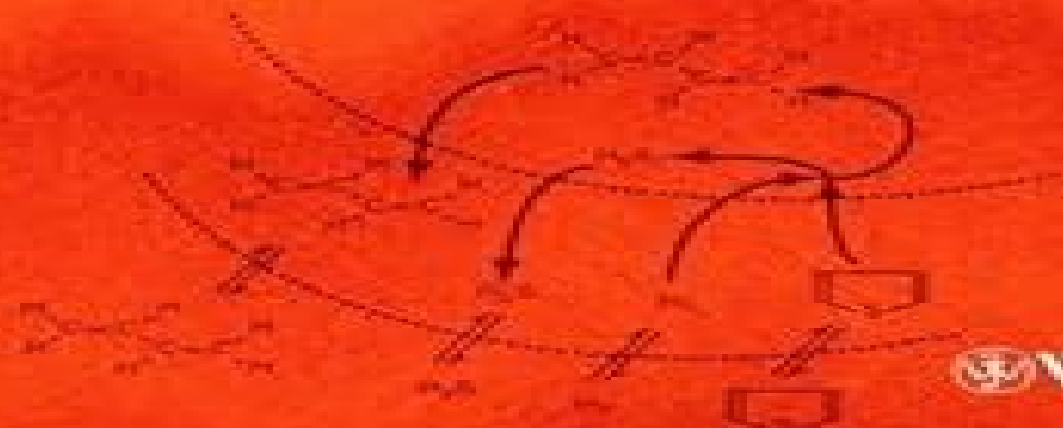


Chemical Process Technology



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Chemical Process Technology Jacob A. Moulijn, Michiel Makkee, Annelies E. van Diepen, 2013-03-21 With a focus on actual industrial processes e.g. the production of light alkenes, synthesis gas, fine chemicals, polyethylene, it encourages the reader to think out of the box and invent and develop novel unit operations and processes. Reflecting today's emphasis on sustainability, this edition contains new coverage of biomass as an alternative to fossil fuels and process intensification. The second edition includes new chapters on Process Intensification and Processes for the Conversion of Biomass. Updated and expanded chapters throughout with 35% new material overall. Text boxes containing case studies and examples from various different industries e.g. synthesis loop designs, Sasol I Plant, Kaminsky catalysts, production of Ibuprofen, click chemistry, ammonia synthesis, fluid catalytic cracking. Questions throughout to stimulate debate and keep students awake. Richly illustrated chapters with improved figures and flow diagrams. **Chemical Process Technology Second Edition** is a comprehensive introduction linking the fundamental theory and concepts to the applied nature of the subject. It will be invaluable to students of chemical engineering, biotechnology and industrial chemistry as well as practising chemical engineers. From reviews of the first edition: 'The authors have blended process technology, chemistry and thermodynamics in an elegant manner. Overall, this is a welcome addition to books on chemical technology.' *The Chemist*. Impressively wide ranging and comprehensive, an excellent textbook for students with a combination of fundamental knowledge and technology.

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novel unit operations and processes Reflecting today's emphasis on sustainability this edition contains new coverage of biomass as an alternative to fossil fuels and process intensification The second edition includes New chapters on Process Intensification and Processes for the Conversion of Biomass Updated and expanded chapters throughout with 35% new material overall Text boxes containing case studies and examples from various different industries e.g. synthesis loop designs Sasol I Plant Kaminsky catalysts production of Ibuprofen click chemistry ammonia synthesis fluid catalytic cracking Questions throughout to stimulate debate and keep students awake Richly illustrated chapters with improved figures and flow diagrams Chemical Process Technology Second Edition is a comprehensive introduction linking the fundamental theory and concepts to the applied nature of the subject It will be invaluable to students of chemical engineering biotechnology and industrial chemistry as well as practising chemical engineers From reviews of the first edition The authors have blended process technology chemistry and thermodynamics in an elegant manner Overall this is a welcome addition to books on chemical technology The Chemist Impressively wide ranging and comprehensive an excellent textbook for students with a combination of fundamental knowledge and technology Chemistry in Britain now Chemistry World Chemical Engineering and Chemical Process Technology - Volume II Ryszard 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

Introduction to Chemical Process Technology P.J. van den Berg, W.A. DeJong, 1980-07-31 **Chemical Engineering and Chemical Process Technology - Volume V** Ryszard 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

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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

Catalysis for Alternative Energy Generation László Guczi, András Erdôhelyi, 2012-04-17 The increase of greenhouse gases in the atmosphere and the decrease of the available amount of fossil fuels necessitate finding new alternative and sustainable energy sources in the near future This book summarizes the role and the possibilities of catalysis in the production of new energy carriers and in the utilization of different energy sources The main goal of this work is to go beyond those results discussed in recent literature by identifying new developments that may lead to breakthroughs in the production of alternative energy The book discusses the use of biomass or biomass derived materials as energy sources hydrogen formation in methanol and ethanol reforming biodiesel production and the utilization of biogases Separate sections also deal with fuel cells photocatalysis and solar cells which are all promising processes for energy production that depend heavily on catalysts

Heterogeneous Catalysis and its Industrial Applications Martin Schmal, 2016-09-22 This book aims to introduce the basic concepts involved in industrial catalytic processes It is profusely illustrated with experimental results with the main objective of guiding how to select a suitable catalyst for specific processes The book is divided in two parts In the first part the basic concepts are addressed regarding the existing theories activity patterns and adsorption desorption phenomena In the second part the key experimental methods for the physicochemical characterization of catalysts are presented as well as the currently used catalyst pre and post treatments The last chapter describes some important in situ characterization techniques e g XPS and TEM and surface model patterns related to surface modifications occurring during the reaction Thoroughly illustrated with microscopy images spectroscopy data and schematics of reaction mechanisms the book provides a powerful learning tool for students in undergraduate and graduate level courses on the field of catalysis Exercises and resolved problems are provided as well as experimental procedures to support laboratory classes Furthermore the content is presented in a carefully chosen sequence reflecting the 30 year teaching experience of the author The author Professor Martin Schmal sees the present book as a way of conveying basic knowledge needed for the development of more efficient catalysts i e nanostructured materials and novel industrial chemical processes in the fields of environmental chemistry fine chemistry hydrotreating of heavy oils hydrogen production and biomass processing **Fine Chemicals through**

Heterogeneous Catalysis R. A. Sheldon, Herman van Bekkum, 2008-07-11 Nowadays the chemical industry is under increased pressure to develop cleaner production processes and technologies Much effort is devoted to the development of

heterogeneous catalysts and their application in industrial scale organic synthesis This handbook concentrates on current attempts focusing on fine chemical production With contributions from an impressive array of international experts this is essential reading for everyone interested in the advances in this field *Product-Driven Process Design* Edwin Zondervan,Cristhian Almeida-Rivera,Kyle Vincent Camarda,2020-01-20 Product driven process design from molecule to enterprise provides process engineers and process engineering students with access to a modern and stimulating methodology to process and product design Throughout the book the links between product design and process design become evident while the reader is guided step by step through the different stages of the intertwining product and process design activities Both molecular and enterprise wide considerations in design are introduced and addressed in detail Several examples and case studies in emerging areas such as bio and food systems pharmaceuticals and energy are discussed and presented This book is an excellent guide and companion for undergraduate graduate students as well as professional practitioners Process Intensification David Reay,Colin Ramshaw,Adam Harvey,2011-04-08 Process intensification PI is a chemical and process design approach that leads to substantially smaller cleaner safer and more energy efficient process technology A hot topic across the chemical and process industries this is the first book to provide a practical working guide to understanding and developing successful PI solutions that deliver savings and efficiencies It will appeal to engineers working with leading edge process technologies and those involved research and development of chemical process environmental pharmaceutical and bioscience systems Shows chemical and process engineers how to apply process intensification to their system process or operation A hard working reference and user guide to the technology AND application of PI covering fundamentals industry applications supplemented by a development and implementation guide Leading author team including Professor Colin Ramshaw developer of the HiGee high gravity distillation process at ICI widely credited as the instigator of PI principles *Chemistry and Industry* ,2001 **Sorption Enhanced Reaction Processes** Alirio Egidio Rodrigues,Luis Miguel Madeira,Yi-jiang Wu,Rui Faria,2017-08-16 This book investigates the development of sorption enhanced reaction processes SERPs with detailed modelling and simulation design and operation of units SERPs are processes intensified by combining adsorption and reaction reaction and membranes or reaction adsorption membranes in a single unit in order to overcome thermodynamic limitations of conversion in reversible reactions The focus here is on gas phase and liquid phase processes involving different technologies including pressure swing adsorptive reactors membrane reactors and simulated moving bed reactors Emphasis is also given to presenting data and practical applications of SERP products Sorption Enhanced Reaction Processes provides undergraduate and graduate students of chemistry and chemical engineering researchers and industrial engineers with a clear path towards process development of SERP whatever the area of application **Encyclopedia of Sustainable Technologies** Martin Abraham,2017-07-04 Encyclopedia of Sustainable Technologies Eight Volume Set provides an authoritative assessment of the sustainable technologies that are

currently available or in development Sustainable technology includes the scientific understanding development and application of a wide range of technologies and processes and their environmental implications Systems and lifecycle analyses of energy systems environmental management agriculture manufacturing and digital technologies provide a comprehensive method for understanding the full sustainability of processes In addition the development of clean processes through green chemistry and engineering techniques are also described The book is the first multi volume reference work to employ both Life Cycle Analysis LCA and Triple Bottom Line TBL approaches to assessing the wide range of technologies available and their impact upon the world Both approaches are long established and widely recognized playing a key role in the organizing principles of this valuable work Provides readers with a one stop guide to the most current research in the field Presents a grounding of the fundamentals of the field of sustainable technologies Written by international leaders in the field offering comprehensive coverage of the field and a consistent high quality scientific standard Includes the Life Cycle Analysis and Triple Bottom Line approaches to help users understand and assess sustainable technologies

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Berg, Willem A. de Jong, 1983 **Integrated Chemical Processes** Kai Sundmacher, Achim Kienle, Andreas Seidel-Morgenstern, 2005-06-17 This is the first book dedicated to the entire field of integrated chemical processes covering process design analysis operation and control of these processes Both the editors and authors are internationally recognized experts from different fields in industry and academia and their contributions describe all aspects of intelligent integrations of chemical reactions and physical unit operations such as heat exchange separational operations and mechanical unit operations As a unique feature the book also introduces new concepts for treating different integration concepts on a generalized basis Of great value to a broad audience of researchers and engineers from industry and academia

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