

Chemical Micro Process Engineering

Processing and Plants



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Thomas Dietrich

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Chemical Micro Process Engineering Volker Hessel, Steffen Hardt, Holger Löwe, 2006-03-06 Micro process engineering is approaching both academia and industry With the provision of micro devices and systems by commercial suppliers one main barrier for using these units has been eliminated More and more they become familiar thereby being one facet of the upheaval in chemical industry This book focuses on processes rather than on devices what is before and behind micro device fabrication A comprehensive and detailed overview is given on A multi faceted hierarchic analysis of chemical micro process technology Modelling and simulation of micro reactors Liquid and liquid liquid phase reactions Gas liquid reactions Gas phase reactions heterogeneous catalysis **Chemical Micro Process Engineering** Volker Hessel, Holger Löwe, Andreas Muller, Gunther Kolb, 2006-03-06 Micro process engineering is approaching both academia and industry With the provision of micro devices systems and whole plants by commercial suppliers one main barrier for using these units has been eliminated This book focuses on processes and their plants rather than on devices what is before behind and around micro device fabrication and gives a comprehensive and detailed overview on the micro reactor plants and three topic class applications which are mixing fuel processing and catalyst screening Thus the book reflects the current level of development from micro reactor design to micro reactor process design Micro Process Engineering Norbert Kockmann, 2013-03-26 This edition of Micro Process Engineering was originally published in the successful series Advanced Micro Nanosystems Authors from leading industrial players and research institutions present a concise and didactical introduction to Micro Process Engineering the combination of microtechnology and process engineering into a most promising and powerful tool for revolutionizing chemical processes and industrial mass production of bulk materials fine chemicals pharmaceuticals and many other products The book takes the readers from the fundamentals of engineering methods transport processes and fluid dynamics to device conception simulation and modelling control interfaces and issues of modularity and compatibility Fabrication strategies and techniques are examined next focused on the fabrication of suitable microcomponents from various materials such as metals polymers silicon ceramics and glass The book concludes with actual applications and operational aspects of micro process systems giving broad coverage to industrial efforts in America Europe and Asia as well as laboratory equipment and education Micro Process Engineering, 3 Volume Set Volker Hessel, Albert Renken, Jaap C. Schouten, Jun-Ichi Yoshida, 2009-03-23 This three volume handbook provides an overview of the key aspects of micro process engineering Volume 1 covers the fundamentals operations and catalysts volume 2 examines devices reactions and applications with volume 3 rounding off the trilogy with system process and plant engineering Fluid dynamics mixing heat mass transfer purification and separation microstructured devices and microstructured reactors are explained in the first volume Volume 2 segments microreactor design fabrication and assembly bulk and fine chemistry polymerisation fuel processing and functional materials into understandable parts The final volume of the handbook addresses microreactor

systems design and scale up sensing analysis and control chemical process engineering economic and eco efficiency analyses as well as microreactor plant case studies in one book Together this 3 volume handbook explains the science behind micro process engineering to the scale up and their real life industrial applications **Chemical Engineering and Chemical** Process Technology - Volume V Ryzhard Pohorecki, John Bridgwater, M. Molzahn. Rafigul 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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Green Process Engineering Martine Poux, Patrick Cognet, Christophe Gourdon, 2015-06-02 This book has been edited by Martine Poux Patrick Cognet and Christophe Gourdon from the Laboratoire de Genie Chimique ENSIACET Toulouse It presents an ensemble of methods and new chemical engineering routes that can be integrated in industrial processing for safer more flexible economical and ecological production processes in the context of Transport Phenomena in Micro **Process Engineering** Norbert Kockmann, 2007-11-12 In this book the fundamentals of chemical engineering are presented aiming to applications in micro system technology microfluidics and transport processes within microstructures After a general overview on both disciplines and common areas recent projects are shortly presented. The combination of different disciplines gives new opportunities in microfluidic devices and process intensification respectively Special features of the book are the state of the art in micro process engineering a detailed treatment of transport phenomena for engineers a design methodology from transport effects to economic considerations a detailed treatment of chemical reaction in continuous flow microstructured reactors an engineering methodology to treat complex processes. The book addresses researchers and graduate students in the field of chemical engineering Microsystems engineering and chemistry 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 Microreactors in Organic Synthesis and Catalysis Thomas Wirth, 2008-05-05 This one stop reference is the first book on this emerging and rapid developing field with a focus on synthesis and catalysis As such it covers all aspects from academia and industry in a clearly structured way Leading experts provide the background information as an initial aid for newcomers to the field while chapters on different reaction types and industrial applications make this an equally vital resource for specialists From the contents Introduction and background Fabrication of microractors Properties and use of microreactors Organic chemistry in microreactors Homogeneous reactions including photochemical and electrochemical reactions Heterogeneous reactions Biphasic reactions liquid liquid gas Bioorganic reactions Industrial applications Thomas Wirth is Professor of Organic Chemistry at Cardiff University in Wales After a postdoctoral stay with Kaoru Fuji at Kyoto University as a JSPS fellow he started his independent research in the group of Bernd Giese in Basel Switzerland He was invited as a visiting professor to various places University of Toronto Canada 1999 Chuo University in Tokyo Japan 2000 Osaka University Japan 2004 He was awarded the Werner Prize from the New Swiss Chemical Society in 2000 He is the author of about 80 publications and has written or edited 4 books **Microchemical Engineering in Practice** Thomas Dietrich, 2011-11-18 Microchemical Engineering in Practice provides the information chemists and engineers need to evaluate the use of microreactors covering the technical operational and economic considerations for various applications It explains the systems needed to use microreactors in production and presents examples of microreactor use in different chemistries including larger scale production processes There are guidelines on calculating the costs and the risks of production using continuous flow microreactors Complete with case studies this is an essential guide for chemists and engineers interested in investigating the advantages of chemical microreactors Handbook of Membrane Reactors Angelo Basile, 2013-04-04 Membrane reactors are increasingly replacing conventional separation process and conversion technologies across a wide range of applications Exploiting advanced membrane materials they offer enhanced efficiency are very adaptable and have great economic potential There has therefore been increasing interest in membrane reactors from both the scientific and industrial communities stimulating research and development The two volumes of the Handbook of membrane reactors draw on this research to provide an authoritative review of this important field Volume 2 reviews reactor types and industrial applications beginning in part one with a discussion of selected types of membrane reactor and integration of the technology with industrial processes Part two goes on to explore the use of membrane reactors in chemical and large scale hydrogen production from fossil fuels Electrochemical devices and transport applications of membrane reactors are the focus of part three before part four considers the use of membrane reactors in environmental engineering

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component of the world's supply of energy and an important source of many bulk chemicals and speciality chemicals It is one of the cleanest safest and most useful of all energy sources and helps to meet the world's rising demand for cleaner energy into the future However exploring producing and bringing gas to the user or converting gas into desired chemicals is a systematical engineering project and every step requires thorough understanding of gas and the surrounding environment Any advances in the process link could make a step change in gas industry. There have been increasing efforts in gas industry in recent years With state of the art contributions by leading experts in the field this book addressed the technology advances in natural gas industry Sustainable Industrial Chemistry Fabrizio Cavani, Gabriele Centi, Siglinda Perathoner, Ferruccio Trifirò, 2009-09-22 In recent years the need for sustainable process design and alternative reaction routes to reduce industry s impact on the environment has gained vital importance The book begins with a general overview of new trends in designing industrial chemical processes which are environmentally friendly and economically feasible Specific examples written by experts from industry cover the possibilities of running industrial chemical processes in a sustainable manner and provide an up to date insight into the main concerns e g the use of renewable raw materials the use of alternative energy sources in chemical processes the design of intrinsically safe processes microreactor and integrated reaction separation technologies process intensification waste reduction new catalytic routes and or solvent and process optimization **Industrial Chemical Separation** Timothy C. Frank, Bruce S. Holden, 2023-08-07 A fresh new treatment written by industry insiders this work gives readers a remarkably clear view into the world of chemical separation The authors review distillation extraction adsorption crystallization and the use of membranes providing historical perspective explaining key features and offering insights from personal experience The book is for engineers and chemists with current or future responsibility for chemical separation on a commercial scale in its design operation or improvement or for anyone wanting to learn more about chemical separation from an industrial point of view The result is a compelling survey of popular technologies and the profession one that brings the art and craft of chemical separation to life Ever wonder how popular separation technologies came about how a particular process functions or how mass transfer units differ from theoretical stages Or perhaps you want some pointers on how to begin solving a separation problem You will find clear explanations and valuable insights into these and other aspects of industrial practice in this refreshing new survey Chemical Engineering Progress, 2005

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