

Emerging Separation and Separative Reaction Technologies for Process Waste Reduction

Absorption and Membrane Systems



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Emerging Separation and Separative Reaction Technologies for Process Waste Reduction Peter P. Radecki, 1999 Findings from a workshop on process waste reduction via separation technologies and separative reactors The book focuses primarily on adsorption and membrane separation technologies outlines the fundamental concepts important to each of the technologies describes state of the art processes using technologies and highlights broad areas of need for each technology

European Symposium on Computer Aided Process Engineering - 11 R. Gani, S.B. Jørgensen, 2001-04-30 This book contains papers presented at the 11th Symposium of Computer Aided Process Engineering ESCAPE 11 held in Kolding Denmark from May 27 30 2001 The objective of ESCAPE 11 is to highlight the use of computers and information technology tools that is the traditional CAPE topics as well as the new CAPE topics of current and future interests The main theme for ESCAPE 11 is process and tools integration with emphasis on hybrid processing cleaner and efficient technologies process integration computer aided systems for modelling design synthesis control tools integration and industrial case studies application of integrated strategies The papers are arranged in terms of the following themes computer aided control operations computer aided manufacturing process and tools integration and new frontiers in CAPE A total of 188 papers consisting of 5 keynote and 183 contributed papers are included in this book

Introduction to Green Chemistry John Andraos, Albert S. Matlack, 2002-03-10 Interest in green chemistry and clean processes has grown so much in recent years that topics such as fluorous biphasic catalysis metal organic frameworks and process intensification which were barely mentioned in the First Edition have become major areas of research In addition government funding has ramped up the development of fuel cells and biofuels This reflects the evolving focus from pollution remediation to pollution prevention Copiously illustrated with more than 800 figures the Third Edition provides an update from the frontiers of the field It features supplementary exercises at the end of each chapter relevant to the chemical examples introduced in each chapter Particular attention is paid to a new concluding chapter on the use of green metrics as an objective tool to demonstrate proof of synthesis plan efficiency and to identify where further improvements can be made through fully worked examples relevant to the chemical industry

NEW AND EXPANDED RESEARCH TOPICS Metal organic frameworks Metrics Solid acids for alkylation of isobutene by butanes Carbon molecular sieves Mixed micro and mesoporous solids Organocatalysis Process intensification and gas phase enzymatic reactions Hydrogen storage for fuel cells Reactive distillation Catalysts in action on an atomic scale

UPDATED AND EXPANDED CURRENT EVENTS TOPICS Industry resistance to inherently safer chemistry Nuclear power Removal of mercury from vaccines Removal of mercury and lead from primary explosives Biofuels Uses for surplus glycerol New hard materials to reduce wear Electronic waste Smart growth The book covers traditional green chemistry topics including catalysis benign solvents and alternative feedstocks It also discusses relevant but less frequently

covered topics with chapters such as Chemistry of Long Wear and Population and the Environment This coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society *Toward Zero Discharge* Tapas K. Das,2005-04-08 This book discusses pathways to achieve pollution prevention and waste minimization at the sources leading toward zero discharge Coverage includes life cycle assessment industrial ecology eco industrial parks green engineering and sustainable chemical and allied processes and products development The pulp and paper industry is introduced as a case study in demonstrating how this industry is achieving pollution prevention goals by various techniques and how this industry has become a minimum impact industry moving towards achieving zero discharge status in most process areas Featuring a collection of expert authors this book is essential reading for industrial ecologists and engineers material scientists and state and federal officials *Introduction to Green Chemistry* Albert Matlack,2010-04-05 The book covers traditional green chemistry topics including catalysis benign solvents and alternative feedstocks It also discusses relevant but less frequently covered topics with chapters such as Chemistry of Longer Wear and Population and the Environment This coverage highlights the importance of chemistry to everyday life and demonstrates the benefits the expanded exploitation of green chemistry can have for society Copiously illustrated with over 800 figures this second edition provides an update from the frontiers of the field **Zeolites in Catalysis** Jiří Čejka,Russell E Morris,Petr Nachtigall,2017-06-01 Covering the breadth of zeolite chemistry and catalysis this book provides the reader with a complete introduction to field covering synthesis structure characterisation and applications Beginning with the history of natural and synthetic zeolites the reader will learn how zeolite structures are formed synthetic routes and experimental and theoretical structure determination techniques Their industrial applications are covered in depth from their use in the petrochemical industry through to fine chemicals and more specialised clinical applications Novel zeolite materials are covered including hierarchical zeolites and two dimensional zeolites showcasing modern developments in the field This book is ideal for newcomers who need to get up to speed with zeolite chemistry and also experienced researchers who will find this a modern up to date guide **Separation Technologies for the Industries of the Future** National Research Council,Division on Engineering and Physical Sciences,National Materials Advisory Board,Commission on Engineering and Technical Systems,Committee on Industrial Technology Assessments,Panel on Separation Technology for Industrial Reuse and Recycling,1999-01-08 Separation processes or processes that use physical chemical or electrical forces to isolate or concentrate selected constituents of a mixture are essential to the chemical petroleum refining and materials processing industries In this volume an expert panel reviews the separation process needs of seven industries and identifies technologies that hold promise for meeting these needs as well as key technologies that could enable separations In addition the book recommends criteria for the selection of separations research projects for the Department of Energy s Office of Industrial Technology **Sci-tech News** ,1999 *Chemistry and Industry* ,2000 **Process Intensification Technologies for**

Green Chemistry Kamelia Boodhoo,Adam Harvey,2013-01-03 The successful implementation of greener chemical processes relies not only on the development of more efficient catalysts for synthetic chemistry but also and as importantly on the development of reactor and separation technologies which can deliver enhanced processing performance in a safe cost effective and energy efficient manner Process intensification has emerged as a promising field which can effectively tackle the challenges of significant process enhancement whilst also offering the potential to diminish the environmental impact presented by the chemical industry Following an introduction to process intensification and the principles of green chemistry this book presents a number of intensified technologies which have been researched and developed including case studies to illustrate their application to green chemical processes Topics covered include Intensified reactor technologies spinning disc reactors microreactors monolith reactors oscillatory flow reactors cavitation reactors Combined reactor separator systems membrane reactors reactive distillation reactive extraction reactive absorption Membrane separations for green chemistry Industry relevance of process intensification including economics and environmental impact opportunities for energy saving and practical considerations for industrial implementation Process Intensification for Green Chemistry is a valuable resource for practising engineers and chemists alike who are interested in applying intensified reactor and or separator systems in a range of industries to achieve green chemistry principles Precision Process Technology M.P.C. Weijnen,A.A.H.

Drinkenburg,2012-12-06 New process technology strategies are required to cope with the future Fossil feedstocks are losing ground in favour of renewable feedstocks and secondary resources Conventional processing routes using thermal sledgehammer techniques are replaced by highly selective bio catalytic conversions The future process engineer is neither allowed to think in terms of unit operations nor to take for granted the conventional practice of continuous steady state processing Hybrid systems and transient operations are more and more frequently encountered The continuing impressive progress being made in process modelling and control will revolutionize the process industries In the new generation of chemical production processes the keyword is precision Precision in terms of selectivity and of efficiency is required to maximize the utilisation of materials and energy Moreover enhanced precision is needed to exploit the quality of materials and energy to the full extent Only by reducing the squandering of materials energy and quality will a harmonious relationship be established between the process industries the economy and the environment Process integration as well as an integrated effort by the disciplines involved in process technology will be of crucial importance in attaining the goals of precision process technology These emerging strategies involve an active exchange of tools and ideas between a variety of disciplines not only in plant design and operation but even more in the early stages of process development and design By looking from various angles at what the future has in store for the process industries this volume systematically lifts the corners of the veil and may inspire to establish a new tradition of precision in process technology *Green Engineering* David T. Allen,David R. Shonnard,2001-09-06 A chemical engineer s guide to managing and minimizing environmental impact Chemical processes

are invaluable to modern society yet they generate substantial quantities of wastes and emissions and safely managing these wastes costs tens of millions of dollars annually Green Engineering is a complete professional s guide to the cost effective design commercialization and use of chemical processes in ways that minimize pollution at the source and reduce impact on health and the environment This book also offers powerful new insights into environmental risk based considerations in design of processes and products First conceived by the staff of the U S Environmental Protection Agency Green Engineering draws on contributions from many leaders in the field and introduces advanced risk based techniques including some currently in use at the EPA Coverage includes Engineering chemical processes products and systems to reduce environmental impacts Approaches for evaluating emissions and hazards of chemicals and processes Defining effective environmental performance targets Advanced approaches and tools for evaluating environmental fate Early stage design and development techniques that minimize costs and environmental impacts In depth coverage of unit operation and flowsheet analysis The economics of environmental improvement projects Integration of chemical processes with other material processing operations Lifecycle assessments beyond the boundaries of the plant Increasingly chemical engineers are faced with the challenge of integrating environmental objectives into design decisions Green Engineering gives them the technical tools they need to do so

Vision 2020 ,2000 **Research & Development** ,1999 *College & Research Libraries News* ,2000 *Department of the Interior and Related Agencies Appropriations for 1994* United States. Congress. House. Committee on Appropriations. Subcommittee on Department of the Interior and Related Agencies,1993 Handbook of Membrane Separations Anil K. Pabby,Syed S.H. Rizvi,Ana-Maria Sastre,2015-04-09 The Handbook of Membrane Separations Chemical Pharmaceutical Food and Biotechnological Applications Second Edition provides detailed information on membrane separation technologies from an international team of experts The handbook fills an important gap in the current literature by providing a comprehensive discussion of membrane application 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

Department of the Interior and Related Agencies Appropriations for 1994: Justification of the budget estimates: Office of the Secretary United States. Congress. House. Committee on Appropriations. Subcommittee on Department of the Interior and Related Agencies, 1993

Chemical Engineering and Chemical Process Technology - Volume I 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

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