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André B. de Haan, H. Burak Eral, Boelo Schuur

INDUSTRIAL SEPARATION PROCESSES

FUNDAMENTALS

2ND EDITION

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Industrial Separation Processes Fundamentals

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Industrial Separation Processes André B. de Haan, H. Burak Eral, Boelo Schuur, 2020-07-06 Separation processes on an industrial scale account for well over half of the capital and operating costs in the chemical industry Knowledge of these processes is key for every student of chemical or process engineering This book is ideally suited to university teaching thanks to its wealth of exercises and solutions The second edition boasts an even greater number of applied examples and case studies as well as references for further reading

Industrial Separation Processes André B. de Haan, Hans Bosch, 2013-07-15 Separation operations are crucial throughout the process industry with respect to energy consumption contribution to investments and ability to achieve the desired product with the right specifications Our main objective in creating this graduate level textbook is to present an overview of the fundamentals underlying the most frequently used industrial separation methods We focus on their physical principles and the basic computation methods that are required to assess their technical and economical feasibility The textbook is organized into three main parts Separation processes for homogeneous mixtures are treated in the parts on equilibrium based molecular separations and rate controlled molecular separations The part on mechanical separation technology presents an overview of the most important techniques for heterogeneous mixture separation Each chapter provides a condensed overview of the most commonly used equipment types The textbook is concluded with a final chapter on the main considerations in selecting an appropriate separation process for a separation task As the design of separation processes can only be learned by doing we have included exercises at the end of each chapter Short answers are given at the end of this book detailed solutions are given in a separate solution manual

Integrated Membrane Operations Alfredo Cassano, Enrico Drioli, 2013-12-12 This comprehensive reference work describes in an instructive manner the combination of different membrane operations such as enzyme membrane reactors EMR s microfiltration MF ultrafiltration UF reverse osmosis RO nanofiltration NF and osmotic distillation OD is studied in order to identify their synergistic effects on the optimization of processes in agro food productions fruit juices wines milk and vegetable beverages and wastewater treatments within the process intensification strategy The introduction to integrated membrane operations is followed by applications in the several industries of the food sector such as valorization of food processing streams biocatalytic membrane reactors and membrane emulsification

Engineering Risk Management Thierry Meyer, Genserik Reniers, 2013-05-28 The book presents risk management from an engineering perspective Both a systemic and analytic viewpoint are important in this regard The introduction to the concept of risk is followed by risk management principles risk diagnostic analysis and treatment event analysis crisis management economic issues risk governance followed by examples of practical implementation in chemistry physics and emerging technologies such as nanoparticles Finally also a number of well known major industrial accidents are discussed and how one can learn from accidents The book is aimed at anyone faced with risk and safety issues The target audience can be as diverse as students

engineers scientists sociologists psychologists or actually all practitioners and academics interested in the matter

Bioprocess Engineering Pau Loke Show, Chien Wei Ooi, Tau Chuan Ling, 2019-05-24 Bioprocess Engineering Downstream Processing is the first book to present the principles of bioprocess engineering focusing on downstream bioprocessing It aims to provide the latest bioprocess technology and explain process analysis from an engineering point of view using worked examples related to biological systems This book introduces the commonly used technologies for downstream processing of biobased products The covered topics include centrifugation filtration membrane separation reverse osmosis chromatography biosorption liquid liquid separation and drying The basic principles and mechanism of separation are covered in each of the topics wherein the engineering concept and design are emphasized This book is aimed at bioprocess engineers and professionals who wish to perform downstream processing for their feedstock as well as students

Mass, Momentum and Energy Transport Phenomena Harry Van den Akker, Robert F. Mudde, 2023-09-18 A treatment of the transport and transfer processes of heat mass and momentum in terms of their analogy The processes are described with the help of macro and micro balances which in many cases lead to differential equations This way the textbook also prepares for Computational Fluid Dynamics techniques The topics of the five chapters of the textbook are Balances shape and recipe mass balance residence time distribution energy and heat balances Bernoulli equation momentum balances Molecular transport dimensional analysis forces on immersed objects Heat transport steady state and unsteady conduction the general heat transport equation forced and free convective heat transport radiant heat transport Mass transport steady state and unsteady diffusion the general mass transport equation mass transfer across a phase interface convective mass transport wet bulb temperature Fluid mechanics flow meters pressure drop packed beds laminar flow of Newtonian and non Newtonian fluids Navier Stokes equations The leading idea behind this textbook is to train students in solving problems where transport phenomena are key To this end the textbook comprises almost 80 problems with solutions

Membrane Systems in the Food Production Alfredo Cassano, Enrico Drioli, 2021-07-19 The two volume work presents applications of integrated membrane operations in agro food productions with significant focus on product quality recovery of high added value compounds reduction of energy consumption and environmental impact Volume 1 Dairy Wine and Oil Processing Volume 2 Wellness Ingredients and Juice Processing

Membrane Technologies Katarzyna Staszak, Karolina Wieszczycka, Bartosz Tylkowski, 2022-10-03 Membrane techniques are an excellent alternative to traditional methods of purification and separation This book covers issues related to the most recent developments in the field of membrane techniques The latest scientific research and their potential applications in industrial solutions are described In addition currents trends in food beverages technologies and biomedicine are discussed Moreover the book emphasizes recent advancements in design of membrane systems used either for separation or creation of mixtures from the perspective of industry 4.0 and data management

Solid-Liquid Separation Technologies Olayinka I. Ogunsola, Isaac K.

Gamwo,2022-04-19 This book presents recent research and advances in various solid liquid separation technologies and some applications for treating produced water It covers fundamental principles and the importance of produced water in major industrial sectors and compares solid liquid separation technologies In addition this book Presents the results of research studies conducted to evaluate the performance of solid liquid separation technologies Discusses a wide range of technologies including membrane filtration crystallization desalination supercritical fluids coagulation and floatation Includes experimental theoretical modeling and process design studies With its comprehensive coverage this book is an essential reference for chemical researchers scientists and engineers in industry academia and professional laboratories It is also an important resource for graduate and advanced undergraduate students studying solid liquid separations Chemical Reaction Technology Dmitry Yu. Murzin,2022-01-19 The book discusses the sciences of operations converting raw materials into desired products on an industrial scale by applying chemical transformations and other industrial technologies Basics of chemical technology combining chemistry physical transport unit operations and chemical reactors are thoroughly prepared for an easy understanding Handbook of Crystal Growth Peter Rudolph,2014-11-04 Vol 2A Basic TechnologiesHandbook of Crystal Growth Second Edition Volume IIA Basic Technologies presents basic growth technologies and modern crystal cutting methods Particularly the methodical fundamentals and development of technology in the field of bulk crystallization on both industrial and research scales are explored After an introductory chapter on the formation of minerals ruling historically the basic crystal formation parameters advanced basic technologies from melt solution and vapour being applied for research and production of the today most important materials like silicon semiconductor compounds and oxides are presented in detail The interdisciplinary and general importance of crystal growth for human live are illustrated Vol 2B Growth Mechanisms and DynamicsHandbook of Crystal Growth Second Edition Volume IIB Growth Mechanisms and Dynamics deals with characteristic mechanisms and dynamics accompanying each bulk crystal growth method discussed in Volume IIA Before the atoms or molecules pass over from a position in the fluid medium gas melt or solution to their place in the crystalline face they must be transported in the fluid over macroscopic distances by diffusion buoyancy driven convection surface tension driven convection and forced convection rotation acceleration vibration magnetic mixing Further the heat of fusion and the part carried by the species on their way to the crystal by conductive and convective transport must be dissipated in the solid phase by well organized thermal conduction and radiation to maintain a stable propagating interface Additionally segregation and capillary phenomena play a decisional role for chemical composition and crystal shaping respectively Today the increase of high quality crystal yield its size enlargement and reproducibility are imperative conditions to match the strong economy Volume 2A Presents the status and future of Czochralski and float zone growth of dislocation free silicon Examines directional solidification of silicon ingots for photovoltaics vertical gradient freeze of GaAs CdTe for HF electronics and IR imaging as well as antiferromagnetic compounds and super alloys for turbine blades Focuses

on growth of dielectric and conducting oxide crystals for lasers and non linear optics Topics on hydrothermal flux and vapour phase growth of III nitrides silicon carbide and diamond are explored Volume 2B Explores capillarity control of the crystal shape at the growth from the melt Highlights modeling of heat and mass transport dynamics Discusses control of convective melt processes by magnetic fields and vibration measures Includes imperative information on the segregation phenomenon and validation of compositional homogeneity Examines crystal defect generation mechanisms and their controllability Illustrates proper automation modes for ensuring constant crystal growth process Exhibits fundamentals of solution growth gel growth of protein crystals growth of superconductor materials and mass crystallization for food and pharmaceutical industries

Chemical Engineering Explained David Shallcross,2017-12-21 Written for those less comfortable with science and mathematics this text introduces the major chemical engineering topics for non chemical engineers With a focus on the practical rather than the theoretical the reader will obtain a foundation in chemical engineering that can be applied directly to the workplace By the end of this book the user will be aware of the major considerations required to safely and efficiently design and operate a chemical processing facility Simplified accounts of traditional chemical engineering topics are covered in the first two thirds of the book and include materials and energy balances heat and mass transport fluid mechanics reaction engineering separation processes process control and process equipment design The latter part details modern topics such as biochemical engineering and sustainable development plus practical topics of safety and process economics providing the reader with a complete guide Case studies are included throughout building a real world connection These case studies form a common thread throughout the book motivating the reader and offering enhanced understanding Further reading directs those wishing for a deeper appreciation of certain topics This book is ideal for professionals working with chemical engineers and decision makers in chemical engineering industries It will also be suitable for chemical engineering courses where a simplified introductory text is desired

Responsible Care Jean Bélanger,Maria Topalovic,Joanne West,2013-12-19 Responsible Care A Case Study is the first book of its kind to provide insight into the development and evolution of Responsible Care and its influence of societal outcomes on the basis of case studies It provides readers in industry government and academia with the principles and innovative thinking associated with the Responsible Care ethic as a means to promote and implement such advanced concepts in their own institution The book is not only a teaching aid for university curriculum it also serves as a practical tool to industrial management and staff to improve industrial policies The last chapter illustrates a practical example of a workshop held at McMaster University Canada which can be used as a model for readers to use this book as an educational tool

Process Intensification Mirko Skiborowski,Andrzej Górak,2022-06-06 Process intensification aims for increasing efficiency and sustainability of biochemical production processes This book presents strategies for the intensification of fluid separation processes such as reactive distillation reactive absorption and membrane assisted separations The authors discuss theoretical fundamentals

model development methods for synthesis and the design as well as scale up and industrial process applications

Handbook Of Porous Materials: Synthesis, Properties, Modeling And Key Applications (In 4 Volumes)

,2020-10-20 This four volume handbook gives a state of the art overview of porous materials from synthesis and characterization and simulation all the way to manufacturing and industrial applications The editors coming from academia and industry are known for their didactic skills as well as their technical expertise Coordinating the efforts of 37 expert authors in 14 chapters they construct the story of porous carbons ceramics zeolites and polymers from varied viewpoints surface and colloidal science materials science chemical engineering and energy engineering Volumes 1 and 2 cover the fundamentals of preparation characterisation and simulation of porous materials Working from the fundamentals all the way to the practicalities of industrial production processes the subjects include hierarchical materials in situ and operando characterisation using NMR X Ray scattering and tomography state of the art molecular simulations of adsorption and diffusion in crystalline nanoporous materials as well as the emerging areas of bio artifice and drug delivery Volume 3 focuses on porous materials in industrial separation applications including adsorption separation membrane separation and osmotic distillation Finally and highly relevant to tomorrow s energy challenges Volume 4 explains the energy engineering aspects of applying porous materials in supercapacitors fuel cells batteries electrolyzers and sub surface energy applications The text contains many high quality colourful illustrations and examples as well as thousands of up to date references to peer reviewed articles reports and websites for further reading This comprehensive and well written handbook is a must have reference for universities research groups and companies working with porous materials Related Link s [Advances in Natural Gas: Formation, Processing, and Applications. Volume 8: Natural Gas Process Modelling and Simulation](#) Mohammad Reza Rahimpour,Mohammad Amin Makarem,Maryam Meshksar,2024-05-11 Advances in Natural Gas Formation Processing and Applications is a comprehensive eight volume set of books that discusses in detail the theoretical basics and practical methods of various aspects of natural gas from exploration and extraction to synthesizing processing and purifying producing valuable chemicals and energy The volumes introduce transportation and storage challenges as well as hydrates formation extraction and prevention Volume 8 titled Process Modelling and Simulation discusses various aspects of natural gas related processes from modelling and simulation point of view This includes modelling of natural gas sweetening dehydration and other impurities removal processes and apparatus as well as simulation of processes and apparatus dealt with producing chemicals and energy from natural gas The book introduces modelling and simulation of natural gas hydrate related processes and covers modelling basics numerical approaches and optimization techniques which provides a deeper understanding of the subject Introduces modelling and simulation methods for natural gas sweetening and purification Describes modelling and simulation procedures of producing chemicals and energy from natural gas Discusses theoretical basics and models of natural gas hydrates **Process Safety** Pol Hoorelbeke,2021-05-10 The author describes the history

of industrial safety and the emergence of process safety as an engineering discipline in the 20th century The book sheds light on the difference between employers and workers *Zeolites in Industrial Separation and Catalysis* Santi

Kulprathipanja,2010-01-26 This first book to offer a practical overview of zeolites and their commercial applications provides a practical examination of zeolites in three capacities Edited by a globally recognized and acclaimed leader in the field with contributions from major industry experts this handbook and ready reference introduces such novel separators as zeolite membranes and mixed matrix membranes The first part of the book discusses the history and chemistry of zeolites while the second section focuses on separation processes The third and final section treats zeolites in the field of catalysis The three sections are unified by an examination of how the unique properties of zeolites allow them to function in different capacities as an adsorbent a membrane and as a catalyst while also discussing their impact within the industry *Food Analysis* Dieter

W. Gruenwedel,John R. Whitaker,1986-11-07 With advances in techniques and technology coupled with the growing need to deal with the problems associated with quality assurance product development and food safety the science of food analysis has developed rapidly in recent years *Food Analysis Principles and Techniques* provides an unparalleled source of information for all aspects of this field filling your needs for up to date detailed treatment of the methods of food analysis Volume 2 of this important 8 volume treatise focuses on essential physicochemical techniques ranging from the measurement of physical parameters such as temperature solubility and viscosity to the determination of food components at the supramolecular and atomic levels Incorporating the latest developments in instrumentation that facilitate rapid quantitative analysis *Physicochemical Techniques* assures you comprehensive accurate coverage that you can turn to time and time again Consolidating the expertise of renowned international authorities *Food Analysis Principles and Techniques* serves as the complete state of the art reference and the basis for continuing development For all food analysts in industry government and academia including food scientists chemists biochemists nutritionists environmental chemists and microbiologists this major resource will be the standard by which other works are compared Also graduate students in food science and nutrition will find each volume of this work indispensable in their study **Catalysis in Biomass Conversion** ,2021-04-16 Catalysis in

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