

Principles of Chemical Separations with Environmental Applications



Richard D. Noble and Patricia A. Terry

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Principles Of Chemical Separations With Environmental Applications

Fedor Macášek, James D. Navratil



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Chemical separations are of central importance in many areas of environmental science whether it is the clean up of polluted water or soil the treatment of discharge streams from chemical processes or modification of a specific process to decrease its environmental impact This book is an introduction to chemical separations focusing on their use in environmental applications The authors first discuss the general aspects of separation technology as a unit operation They also describe how property differences are used to generate separations the use of separating agents and the selection criteria for particular separation techniques The general approach for each technology is to present the chemical and or physical basis for the process and explain how to evaluate it for design and analysis The book contains many worked examples and homework problems It is an ideal textbook for undergraduate and graduate students taking courses on environmental separations or environmental engineering

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Carlos A. M. Afonso, João Pedro G. Crespo, 2006-05-12 This timely book is the first to provide a comprehensive overview of all important aspects of this modern technology with the focus on the green aspect The expert authors present everything from reactions without solvents to nanostructures for separation methods from combinatorial chemistry on solid phase to dendrimers The result is a ready reference packed full of valuable facts on the latest developments in the field high quality information otherwise widely

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Chromatographic Processes Roger-Marc Nicoud,2015-04-20 Addressing all aspects of the design modeling and simulation of chromatographic processes this result oriented primer provides a practical guide to all the necessary approaches methodologies and tools Beginning with key definitions and concepts it builds up from the most simple to the most complex situations including multicomponent systems non uniform velocity profiles bed instability particle size distributions and the influence of complex environments on chromatographic process design In addition to covering classical approaches it introduces efficient tools for investigating chromatographic processes such as the Russian Lego approach for linear systems phenomenological models and specific shortcuts for deriving the key properties of industrial processes With an emphasis on real world problems and applications step by step modeling design guidelines and detailed exercises for self assessment this is a must have guide for practitioners and researchers working in chemical biochemical food and pharmaceutical engineering *Thermodynamics and Statistical Mechanics* M. Scott Shell,2015-04-16 Learn classical thermodynamics alongside statistical mechanics and how macroscopic and microscopic ideas interweave with this fresh approach to the subjects **Separations Chemistry** Fedor Macášek,James D. Navratil,2016-06-06 Separation of chemical species is a gate to final success of synthesis and preparation of compounds in pure and defined state Variability of natural

and artificial mixtures to be treated is enormous Task of chemistry is to separate components of homogeneous mixtures the gaseous and liquid solutions The book concentrates on understanding the basic philosophies of both equilibrium and nonequilibrium chemical thermodynamics and engineering performance that lay in principle of separation technique such as distillation crystallization centrifugation sorption membrane separations chromatography and liquid liquid extraction Specific phenomena connected with photochemical separation isotope composition and radioactivity are discussed as well The book is written for advanced students of chemistry having the knowledge of physical chemistry Calculation examples are based on the international system of units Unique list of over 1 300 full references covers scientific literature of the eighteenth to the twenty first centuries

Introduction to Chemical Engineering Fluid Mechanics William M. Deen, 2016-08-15 Presents the fundamentals of chemical engineering fluid mechanics with an emphasis on valid and practical approximations in modeling

Handbook of Water and Energy Management in Food Processing Jiri Klemes, Robin Smith, Jin-Kuk Kim, 2008-06-30 Effective water and energy use in food processing is essential not least for legislative compliance and cost reduction This major volume reviews techniques for improvements in the efficiency of water and energy use as well as wastewater treatment in the food industry Opening chapters provide an overview of key drivers for better management Part two is concerned with assessing water and energy consumption and designing strategies for their reduction These include auditing energy and water use and modelling and optimisation tools for water minimisation Part three reviews good housekeeping procedures measurement and process control and monitoring and intelligent support systems Part four discusses methods to minimise energy consumption Chapters focus on improvements in specific processes such as refrigeration drying and heat recovery Part five discusses water reuse and wastewater treatment in the food industry Chapters cover water recycling disinfection techniques aerobic and anaerobic systems for treatment of wastewater The final section concentrates on particular industry sectors including fresh meat and poultry cereals sugar soft drinks brewing and winemaking With its distinguished editors and international team of contributors Handbook of water and energy management in food processing is a standard reference for the food industry Provides an overview of key drivers for better management Reviews techniques for improvements in efficiency of water and energy use and waste water treatment Examines house keeping procedures and measurement and process control

Metropolitan Sustainability F Zeman, 2012-09-11 Global populations have grown rapidly in recent decades leading to ever increasing demands for shelter resources energy and utilities Coupled with the worldwide need to achieve lower impact buildings and conservation of resources the need to achieve sustainability in urban environments has never been more acute This book critically reviews the fundamental issues and applied science engineering and technology that will enable all cities to achieve a greater level of metropolitan sustainability and assist nations in meeting the needs of their growing urban populations Part one introduces key issues related to metropolitan sustainability including the use of both urban metabolism and benefit cost analysis Part

two focuses on urban land use and the environmental impact of the built environment The urban heat island effect redevelopment of brownfield sites and urban agriculture are discussed in depth before part three goes on to explore urban air pollution and emissions control Urban water resources reuse and management are explored in part four followed by a study of urban energy supply and management in part five Solar wind and bioenergy the role of waste to energy systems in the urban infrastructure and smart energy for cities are investigated Finally part six considers sustainable urban development transport and planning With its distinguished editor and international team of expert contributors Metropolitan sustainability is an essential resource for low impact building engineers sustainability consultants and architects town and city planners local municipal authorities and national and non governmental bodies and provides a thorough overview for academics of all levels in this field Critically reviews the fundamental issues and applied science engineering and technology that will enable all cities to achieve a greater level of metropolitan sustainability Will assist nations in meeting the needs of their growing urban populations Chapters discuss urban land use the environmental impact of the build environment the urban heat island effect urban air pollution and emissions control among other topics *Green Catalysis and Reaction Engineering* Bala Subramaniam, 2022-09-29 Discover tools to perform Life Cycle Analysis LCA and develop sustainable chemical technologies in this valuable guide for chemists engineers and practitioners Tackling one of the key challenges of modern industrial chemical engineering this book introduces tools to assess the environmental footprint and economics of key chemical processes that make the ingredients of everyday products such as plastics synthetic fibers detergents and fuels Describing diverse industrial processes in detail it provides process flow diagrams including raw material sourcing catalytic reactors separation units process equipment and recycle streams The book clearly explains elements of LCA and how various software tools available in the public domain and commercially can be used to perform LCA Supported by real world practical examples and case studies provided by industrial and academic chemists and chemical engineers this is an essential tool for readers involved in implementing LCA and developing next generation sustainable chemical technologies

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Advanced Optimization for Process Systems Engineering Ignacio E. Grossmann, 2021-03-25 A unique text covering basic and advanced concepts of optimization theory and methods for process systems engineers With examples illustrating key concepts and algorithms and exercises involving theoretical derivations numerical problems and modeling systems it is ideal for single semester graduate courses in process systems engineering

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