

MASS-TRANSFER OPERATIONS

Robert E. Treybal



Treybal Mass Transfer Operations 3rd Ed

Louis Theodore, Francesco Ricci



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Mass-transfer Operations Robert Ewald Treybal, 1955 Handbook of Separation Process Technology Ronald W.

Rousseau, 1987-05-13 Surveys the selection design and operation of most of the industrially important separation processes. Discusses the underlying principles on which the processes are based and provides illustrative examples of the use of the processes in a modern context. Features thorough treatment of newer separation processes based on membranes, adsorption, chromatography, ion exchange, and chemical complexation. Includes a review of historically important separation processes such as distillation, absorption, extraction, leaching, and crystallization and considers these techniques in light of recent developments affecting them. **Principles and Modern Applications of Mass Transfer Operations** Jaime

Benitez, 2016-12-27 A staple in any chemical engineering curriculum. New edition has a stronger emphasis on membrane separations, chromatography, and other adsorptive processes, ion exchange. Discusses many developing topics in more depth in mass transfer operations, especially in the biological engineering area. Covers in more detail phase equilibrium since distillation calculations are completely dependent on this principle. Integrates computational software and problems using Mathcad. Features 25-30 problems per chapter. **Principles and Applications of Mass Transfer** Jaime

Benitez, 2022-12-13 Principles and Applications of Mass Transfer. Core textbook teaching mass transfer fundamentals and applications for the design of separation processes in chemical, biochemical, and environmental engineering. Principles and Applications of Mass Transfer teaches the subject of mass transfer fundamentals and their applications to the design of separation processes with enough depth of coverage to guarantee that students using the book will at the end of the course be able to specify preliminary designs of the most common separation process equipment. Reflecting the growth of biochemical applications in the field of chemical engineering, the fourth edition expands biochemical coverage including transient diffusion, environmental applications, electrophoresis, and bioseparations. Also new to the fourth edition is the integration of Python programs which complement the Mathcad programs of the previous edition. On the accompanying instructor's website, the online appendices contain a downloadable library of Python and Mathcad programs for the example problems in each chapter. A complete solution manual for all end-of-chapter problems, both in Mathcad and Python, is also provided. Some of the topics covered in Principles and Applications of Mass Transfer include: Molecular mass transfer covering concentrations, velocities, and fluxes; the Maxwell-Stefan relations and Fick's first law for binary mixtures; The diffusion coefficient covering diffusion coefficients for binary ideal gas systems, dilute liquids, and concentrated liquids; Convective mass transfer covering mass transfer coefficients, dimensional analysis, boundary layer theory, and mass and heat transfer analogies; Interphase mass transfer covering diffusion between phases, material balances, and equilibrium stage operations; Gas-dispersed gas-liquid operations covering sparged vessels, tray towers, diameter, and gas pressure drop and weeping and entrainment. Principles and Applications of Mass Transfer is an essential textbook for undergraduate chemical

biochemical mechanical and environmental engineering students taking a core course on Separation Processes or Mass Transfer Operations along with mechanical engineers and mechanical engineering students starting to get involved in combined heat and mass transfer applications

Mass Transfer Operations for the Practicing Engineer Louis Theodore, Francesco Ricci, 2011-12-06 An invaluable guide for problem solving in mass transfer operations This book takes a highly pragmatic approach to providing the principles and applications of mass transfer operations by offering a valuable easily accessible guide to solving engineering problems Both traditional and novel mass transfer processes receive treatment As with all of the books in this series emphasis is placed on an example based approach to illustrating key engineering concepts The book is divided into two major parts It starts with the principles underlying engineering problems showing readers how to apply general engineering principles to the topic of mass transfer operations It then goes on to provide step by step guidance for traditional mass transfer operations including distillation absorption and stripping and adsorption plus novel mass transfer processes Essential topics for professional engineering exams are also covered Geared towards chemical environmental civil and mechanical engineers working on real world industrial applications Mass Transfer Operations for the Practicing Engineer features Numerous sample problems and solutions with real world applications Clear precise explanations on how to carry out the basic calculations associated with mass transfer operations Coverage of topics from the ground up for readers without prior knowledge of the subject Overview of topics relevant to the ABET Accreditation Board for Engineering and Technology for those taking the Professional Engineering PE exams Appendix containing relevant mass transfer operation charts and tables

Mass-transfer Operations Robert Ewald Treybal, 1967

Mass Transfer Operations-I D.C. Sikdar, 2022-11-11 Mass Transfer is the net movement of mass of a chemical species from the region of higher concentration to a region of lower concentration It occurs in many industrial and non industrial processes Mass transfer is used by different scientific communities for different processes and mechanisms Mass Transfer Operation is one of the core courses at the undergraduate level of Chemical Engineering curriculum The chapters are organized in a way that enables the students to acquire an in depth understanding of the subject The emphasis is given to the basic concepts of mass transfer operating molecular diffusion inter phase mass transfer humidification operations drying evaporation crystallization adsorption novel separations and Mass transfer analogy all coming under the realm of mass transfer operations Apart from the numerous illustrations the book includes review questions exercises and aptitude test in chemical engineering which bridge the gap between theory and practical implementation All numerical problems are solved in a systematic manner to reinforce the understanding of the concepts This book demonstrates how to solve the industry related problems in chemical Engineering practice This book is primarily intended as a textbook for the undergraduate students of Chemical Engineering It will also be useful for other allied branches such as Mechanical Engineering Petroleum Engineering Polymer Science and Engineering Bio technology as well as Diploma in Chemical Engineering

Chemical Engineering Design Gavin Towler, R

K Sinnott, 2012-01-13 Bottom line For a holistic view of chemical engineering design this book provides as much if not more than any other book available on the topic Extract from Chemical Engineering Resources review Chemical Engineering Design is a complete course text for students of chemical engineering Written for the Senior Design Course and also suitable for introduction to chemical engineering courses it covers the basics of unit operations and the latest aspects of process design equipment selection plant and operating economics safety and loss prevention It is a textbook that students will want to keep through their undergraduate education and on into their professional lives Process Engineering and Design Using Visual Basic®, Second Edition Arun Datta, 2013-09-20 Software tools are a great aid to process engineers but too much dependence on such tools can often lead to inappropriate and suboptimal designs Reliance on software is also a hindrance without a firm understanding of the principles underlying its operation since users are still responsible for devising the design In Process Engineering and Design Using Visual Basic Arun K Datta provides a unique and versatile suite of programs along with simultaneous development of the underlying concepts principles and mathematics Each chapter details the theory and techniques that provide the basis for design and engineering software and then showcases the development and utility of programs developed using the material outlined in the chapter This all inclusive guide works systematically from basic mathematics to fluid mechanics separators overpressure protection and glycol dehydration providing basic design guidelines based on international codes Worked examples demonstrate the utility of each program while the author also explains problems and limitations associated with the simulations After reading this book you will be able to immediately put these programs into action and have total confidence in the result regardless of your level of experience Companion Visual Basic and Excel files are available for download on under the Downloads Updates tab on this web page **Separation Process Engineering** Phillip C. Wankat, 2006-08-11 The Comprehensive Introduction to Standard and Advanced Separation for Every Chemical Engineer Separation Process Engineering Second Edition helps readers thoroughly master both standard equilibrium staged separations and the latest new processes The author explains key separation process with exceptional clarity realistic examples and end of chapter simulation exercises using Aspen Plus The book starts by reviewing core concepts such as equilibrium and unit operations then introduces a step by step process for solving separation problems Next it introduces each leading processes including advanced processes such as membrane separation adsorption and chromatography For each process the author presents essential principles techniques and equations as well as detailed examples Separation Process Engineering is the new thoroughly updated edition of the author's previous book Equilibrium Staged Separations Enhancements include improved organization extensive new coverage and more than 75% new homework problems all tested in the author's Purdue University classes Coverage includes Detailed problems with real data organized in a common format for easier understanding Modular simulation exercises that support courses taught with simulators without creating confusion in courses that do not use them Extensive new coverage of membrane separations

including gas permeation reverse osmosis ultrafiltration pervaporation and key applications A detailed introduction to adsorption chromatography and ion exchange everything students need to understand advanced work in these areas Discussions of standard equilibrium stage processes including flash distillation continuous column distillation batch distillation absorption stripping and extraction

Hydrometallurgy Michael L. Free, 2021-11-30 This revised new edition retains its class tested coverage of how metals behave in water while updating and expanding information about metals processing methods The book further retains its emphasis on predicting and engineering the way metals are extracted from ore sources separated from unwanted entities recovered as metals and purified using water based processing The transformation of minerals to metals requires hydrometallurgical processing for nearly all of the nonferrous metals we use This book elucidates the associated fundamentals and processing applications as well as related tools to assess processes and performance The new edition further includes additional photographs updated drawings supplementary data updated descriptive information and new detail on rare earth elements processing as well as recycling and byproduct recovery of metals

Water Treatment Unit Processes David W. Hendricks, 2018-10-03 The unit process approach common in the field of chemical engineering was introduced about 1962 to the field of environmental engineering An understanding of unit processes is the foundation for continued learning and for designing treatment systems The time is ripe for a new textbook that delineates the role of unit process principles in environmental engineering Suitable for a two semester course Water Treatment Unit Processes Physical and Chemical provides the grounding in the underlying principles of each unit process that students need in order to link theory to practice Bridging the gap between scientific principles and engineering practice the book covers approaches that are common to all unit processes as well as principles that characterize each unit process Integrating theory into algorithms for practice Professor Hendricks emphasizes the fundamentals using simple explanations and avoiding models that are too complex mathematically allowing students to assimilate principles without getting sidelined by excess calculations Applications of unit processes principles are illustrated by example problems in each chapter Student problems are provided at the end of each chapter the solutions manual can be downloaded from the CRC Press Web site Excel spreadsheets are integrated into the text as tables designated by a CD prefix Certain spreadsheets illustrate the idea of scenarios that emphasize the idea that design solutions depend upon assumptions and the interactions between design variables The spreadsheets can be downloaded from the CRC web site The book has been designed so that each unit process topic is self contained with sidebars and examples throughout the text Each chapter has subheadings so that students can scan the pages and identify important topics with little effort Problems references and a glossary are found at the end of each chapter Most chapters contain downloadable Excel spreadsheets integrated into the text and appendices with additional information Appendices at the end of the book provide useful reference material on various topics that support the text This design allows students at different levels to easily navigate through the book and professors to assign pertinent sections in

the order they prefer The book gives your students an understanding of the broader aspects of one of the core areas of the environmental engineering curriculum and knowledge important for the design of treatment systems *Introduction to Analysis and Design of Equilibrium Staged Separation Processes* Prof. Rajinder Pal, 2022-10-31 This book is written with second year chemical engineering undergraduate students in mind Chemical engineering undergraduate students are generally taught Equilibrium Stage Operations in their second year This is the first time they are introduced to equilibrium stage based separation processes The goal is to present the equilibrium stage concepts and operations in a manner comprehensible to second year chemical engineering students with little or no prior exposure to separation processes The book consists of sixteen chapters It covers single stage and multi stage absorption and stripping flash distillation multi stage column distillation batch distillation with and without reflux liquid liquid extraction and solid liquid leaching Although the book is focused on equilibrium staged separation processes the final chapter chapter 16 is devoted to the analysis and design of continuous contacting packed columns as packed columns are becoming increasingly important in practical applications

Environmental Engineering: Review for the Professional Engineering Examination Ashok V. Naimpally, Kirsten Rosselot, 2013-09-11 This book will help the reader expand further into chemical engineering and become a licensed professional engineer PE which can offer a tremendous boost to one's career as there are certain career opportunities available only to licensed engineers Licensure demonstrates high standards of professionalism knowledge and ability Because of the work experience requirement PE examinees have generally been out of school for some time This book summarizes the theoretical background of topics covered in the exam which will help potential examinees refresh their memories on subjects they may not have been exposed to since their undergraduate classes Another advantage of using this book to prepare for the PE exam is that two or three logical distractors answers that result from common mistakes are included among the answer choices for each problem The solutions to the problems also explain why the logical distractors are incorrect Research has shown that this is an efficient teaching tool Thus the inclusion of these logical distractors and their explanations will give individuals a better foundation in the subject matter in a shorter period of time Although this book is intended primarily to help engineers prepare for the PE environmental engineering examination it will also be useful in undergraduate engineering courses that cover environmental engineering topics *Safety and Health in Confined Spaces* Neil McManus, 2018-12-18 Safety and Health in Confined Spaces goes beyond all other resources currently available International in scope the 15 chapters and 10 appendices cover every facet of this important subject A significant addition to the literature this book provides a confined space focus to other health and safety concepts Confined spaces differ from other workspaces because their boundary surfaces amplify the consequences of hazardous conditions The relationship between the individual the boundary surface and the hazardous condition is the critical factor in the onset outcome and severity of accidents in these workspaces The author uses information about causative and other factors from analysis of fatal accidents

to develop a hazard assessment and hazard management system He provides a detailed disciplined protocol covering 36 hazardous conditions that addresses all segments of work the undisturbed space entry preparation work activity and emergency preparedness and response and illustrates how to use it Safety and Health in Confined Spaces gives you the tools you need for preventing and responding to accidents *Advanced Physicochemical Treatment Processes* Lawrence K. Wang, Yung-Tse Hung, Nazih K. Shammass, 2007-11-10 The past thirty years have witnessed a growing worldwide desire that positive actions be taken to restore and protect the environment from the degrading effects of all forms of pollution air water soil and noise Because pollution is a direct or indirect consequence of waste the seemingly idealistic demand for zero discharge can be construed as an unrealistic demand for zero waste However as long as waste continues to exist we can only attempt to abate the subsequent pollution by converting it to a less noxious form Three major questions usually arise when a particular type of pollution has been identified 1 How serious is the pollution 2 Is the technology to abate it available and 3 Do the costs of abatement justify the degree of abatement achieved This book is one of the volumes of the Handbook of Environmental Engineering series The principal intention of this series is to help readers formulate answers to the last two questions above The traditional approach of applying tried and true solutions to specific pollution problems has been a major contributing factor to the success of environmental engineering and has accounted in large measure for the establishment of a methodology of pollution control However the realization of the ever increasing complexity and interrelated nature of current environmental problems renders it imperative that intelligent planning of pollution abatement systems be undertaken

Engineering Economics and Economic Design for Process Engineers Thane Brown, 2016-04-19 Engineers often find themselves tasked with the difficult challenge of developing a design that is both technically and economically feasible A sharply focused how to book Engineering Economics and Economic Design for Process Engineers provides the tools and methods to resolve design and economic issues It helps you integrate technical a **Stantec's Water Treatment** John C. Crittenden, R. Rhodes Trussell, David W. Hand, Kerry J. Howe, George Tchobanoglous, 2022-11-08 The updated third edition of the definitive guide to water treatment engineering now with all new online content Stantec's Water Treatment Principles and Design provides comprehensive coverage of the principles theory and practice of water treatment engineering Written by world renowned experts in the field of public water supply this authoritative volume covers all key aspects of water treatment engineering including plant design water chemistry and microbiology water filtration and disinfection residuals management internal corrosion of water conduits regulatory requirements and more The updated third edition of this industry standard reference includes an entirely new chapter on potable reuse the recycling of treated wastewater into the water supply using engineered advanced treatment technologies QR codes embedded throughout the book connect the reader to online resources including case studies and high quality photographs and videos of real world water treatment facilities This edition provides instructors with access to additional resources via a companion website Contains in depth

chapters on processes such as coagulation and flocculation sedimentation ion exchange adsorption and gas transfer Details membrane filtration technologies advanced oxidation and potable reuse Addresses ongoing environmental concerns pharmacological agents in the water supply and treatment strategies Describes reverse osmosis applications for brackish groundwater wastewater and other water sources Includes high quality images and illustrations useful appendices tables of chemical properties and design data and more than 450 exercises with worked solutions Stantec's Water Treatment Principles and Design Updated Third Edition remains an indispensable resource for engineers designing or operating water treatment plants and is an essential textbook for students of civil environmental and water resources engineering Off-Gas Purification Annika Graftschafter,Susanne Lux,Matthäus Siebenhofer,2023-06-06 When doing in the off gas purification business you will pretty soon register that you do not act in an isolated box You have to make yourself familiar with the interplay of your emission problem and the environment and you have to apply a broad view of the subject We can hardly make a forecast on your first steps in this business except that we want you to succeed Therefore we want to offer engineers and graduate students the basic tools for discussing air pollution problems and for deducing strategies for process and equipment design in off gas purification covering the whole span from the basics to dedusting absorption adsorption and redox processes The didactic concept of the work is to attract students with a learning by doing strategy We discuss the problems the solver strategies and the solvers The problem solver proposals address a multitude of pollution control technologies The work is a compact off gas purification guide for practitioners and students by presenting basics as well as numerous applications with many examples and problems with solutions *Liquid Detergents* Kuo-Yann Lai,1996-11-19 Covers all fundamental theories practical applications and manufacturing aspects of liquid detergents from hand dishwashing liquids and liquid laundry detergents to household hard surface cleaners Contains over 1500 up to date references including patents in each product category and nearly 300 helpful figures and tables

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