

Seader Henley Solutions Manual 3rd Ed

Pressure Vessel Design Manual
Java Software Solutions for Ap Computer
Science
Process Dynamics and Control
Fundamentals of Machine Elements
Mass Transport Phenomena
ENGINEERING MECHANICS: DYNAMICS, 6TH ED
Transport Phenomena in Biological Systems
Diffusion
Sailing Fundamentals
Separation Process Engineering
Principles of Water Treatment
Statistics for the Behavioral and Social Sciences
The ChemSep Book
Separation Process Essentials
Fluid Mechanics for Chemical Engineers
Inherently Safer Chemical Processes
Human Resource Selection
Process Systems Analysis and Control
Unit Operations of Chemical Engineering
Principles and Modern Applications of Mass Transfer Operations
Optimal Control
Engineering Electromagnetics
Theory and Practice of Water and Wastewater Treatment
Product and Process Design Principles
Mass-transfer Operations
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Electrical Engineering
SEPARATION PROCESS PRINCIPLES, 2ND ED
Multicomponent Mass Transfer
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Equilibrium-Stage Separation Operations in Chemical Engineering
Introductory Chemistry: An Atoms First Approach
Separation Process Principles with Applications Using Process Simulators, 4th Edition
PRINCIPLES OF MASS TRANSFER AND SEPERATION PROCESSES
Fundamentals of Machine Component Design
Engineering and Chemical Thermodynamics
Hands-On Microsoft Windows Server 2016
MODERN DIGITAL ELECTRONICS 4E
System Engineering Management
Separation Process Principles

Pressure Vessel Design Manual

Market_Desc: Engineers and Students of Engineering
Special Features: · Provides new problems that produce forces as functions of time and that integrate to project trajectories for particles and rigid bodies.· Presents new Statics sample problems in frames and machines, methods of joints for simple trusses, 2D moment calculations, and moments and couples.· Adopts the 'time order of occurrence' display of key equations: work-energy, conservation of energy, and impulse-momentum.· Includes new Dynamics sample problems in angular impulse and momentum, graphing the path of a particle, polar coordinates, and more.· Continues to offer comprehensive coverage of drawing free body diagrams. About The Book: Over the past 50 years, Meriam & Kraige's Engineering Mechanics has established a highly respected tradition of excellence. Readers turn to this book because of its emphasis on accuracy, rigor, clarity, and applications. The new sixth edition continues this tradition while also improving the accessibility of the material. The explanations of concepts are now easier to understand and more worked examples have been incorporated throughout the pages.

Java Software Solutions for Ap Computer Science

Process Dynamics and Control

HANDS-ON MICROSOFT WINDOWS SERVER 2016 is the perfect resource for learning Windows Server 2016 from the ground up. Designed to build a foundation in basic server administration, this book requires no previous server experience. It covers all of the critical Windows Server 2016 features, including the advantages unique to this new server operating system. Readers learn how to choose the right server edition for their needs. They also learn to install, configure, customize, manage, and troubleshoot today's servers most effectively. If the reader is new to server administration, this book provides the background and knowledge needed to manage servers on small to large networks. If the reader is an experienced server administrator, this book provides a fast way to get up to speed on new Windows Server 2016 administration. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Fundamentals of Machine Elements

The fourth edition enhanced eBook update of Product and Process Design Principles contains many new resources and supplements including new videos, quiz questions with answer-specific feedback, and real-world case studies to

support student comprehension. Product and Process Design Principles covers material for process design courses in the chemical engineering curriculum—demonstrating how process design and product design are interlinked and their importance for modern applications. Presenting a systematic approach, this fully-updated new edition describes modern strategies for the design of chemical products and processes. The text presents two parallel tracks—product design and process design—which enables instructors to easily show how product designs lead to new chemical processes and, alternatively, teach product design as separate course. Divided into five parts, the fourth edition begins with a broad introduction to product design followed by a comprehensive introduction to process synthesis and analysis. Succeeding chapters cover the products and processes of design synthesis, design analysis, and design reports. The final part of the book presents ten case studies which look at product and process designs such as for Vitamin C tablets, conductive ink for printed electronics, and home hemodialysis devices. Effective pedagogical tools are thoroughly and consistently implemented throughout the text.

Mass Transport Phenomena

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.

ENGINEERING MECHANICS: DYNAMICS, 6TH ED

ALERT: Before you purchase, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. Packages Access codes for Pearson's MyLab & Mastering products may not be included when purchasing or renting from companies other than Pearson; check with the seller before completing your purchase. Used or rental books If you rent or purchase a used book with an access

code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase. -- For undergraduate introductory or survey courses in electrical engineering A clear introduction to electrical engineering fundamentals Electrical Engineering: Principles and Applications, 6e helps students learn electrical-engineering fundamentals with minimal frustration. Its goals are to present basic concepts in a general setting, to show students how the principles of electrical engineering apply to specific problems in their own fields, and to enhance the overall learning process. Circuit analysis, digital systems, electronics, and electromechanics are covered. A wide variety of pedagogical features stimulate student interest and engender awareness of the material's relevance to their chosen profession. NEW: This edition is now available with MasteringEngineering, an innovative online program created to emulate the instructor's office--hour environment, guiding students through engineering concepts from Electrical Engineering with self-paced individualized coaching. Note: If you are purchasing the standalone text or electronic version, MasteringEngineering does not come automatically packaged with the text. To purchase MasteringEngineering, please visit: masteringengineering.com or you can purchase a package of the physical text + MasteringEngineering by searching the Pearson Higher Education website. Mastering is not a self-paced technology and should only be purchased when

required by an instructor.

Transport Phenomena in Biological Systems

Separation Process Essentials provides an interactive approach for students to learn the main separation processes (distillation, absorption, stripping, and solvent extraction) using material and energy balances with equilibrium relationships, while referring readers to other more complete works when needed. Membrane separations are included as an example of non-equilibrium processes. This book reviews and builds on material learned in the first chemical engineering courses such as Material and Energy Balances and Thermodynamics as applied to separations. It relies heavily on example problems, including completely worked and explained problems followed by "Try This At Home" guided examples. Most examples have accompanying downloadable Excel spreadsheet simulations. The book also offers a complementary website, <http://separationsbook.com>, with supplementary material such as links to YouTube tutorials, practice problems, and the Excel simulations. This book is aimed at second and third year undergraduate students in Chemical engineering, as well as professionals in the field of Chemical engineering, and can be used for a one semester course in separation processes and unit operations.

Diffusion

Separation Process Principles with Applications Using Process Simulator, 4th Edition is the most comprehensive and up-to-date treatment of the major separation operations in the chemical industry. The 4th edition focuses on using process simulators to design separation processes and prepares readers for professional practice. Completely rewritten to enhance clarity, this fourth edition provides engineers with a strong understanding of the field. With the help of an additional co-author, the text presents new information on bioseparations throughout the chapters. A new chapter on mechanical separations covers settling, filtration and centrifugation including mechanical separations in biotechnology and cell lysis. Boxes help highlight fundamental equations. Numerous new examples and exercises are integrated throughout as well.

Sailing Fundamentals

Chemical engineers face the challenge of learning the difficult concept and application of entropy and the 2nd Law of Thermodynamics. By following a visual approach and offering qualitative discussions of the role of molecular interactions, Koretsky helps them understand and visualize thermodynamics. Highlighted examples show how the material is applied in the real world. Expanded coverage

includes biological content and examples, the Equation of State approach for both liquid and vapor phases in VLE, and the practical side of the 2nd Law. Engineers will then be able to use this resource as the basis for more advanced concepts.

Separation Process Engineering

A practical, step-by-step guide to total systems management Systems Engineering Management, Fifth Edition is a practical guide to the tools and methodologies used in the field. Using a "total systems management" approach, this book covers everything from initial establishment to system retirement, including design and development, testing, production, operations, maintenance, and support. This new edition has been fully updated to reflect the latest tools and best practices, and includes rich discussion on computer-based modeling and hardware and software systems integration. New case studies illustrate real-world application on both large- and small-scale systems in a variety of industries, and the companion website provides access to bonus case studies and helpful review checklists. The provided instructor's manual eases classroom integration, and updated end-of-chapter questions help reinforce the material. The challenges faced by system engineers are candidly addressed, with full guidance toward the tools they use daily to reduce costs and increase efficiency. System Engineering Management integrates industrial engineering, project management, and leadership skills into a unique emerging field. This book unifies these different skill sets into a single step-

by-step approach that produces a well-rounded systems engineering management framework. Learn the total systems lifecycle with real-world applications Explore cutting edge design methods and technology Integrate software and hardware systems for total SEM Learn the critical IT principles that lead to robust systems Successful systems engineering managers must be capable of leading teams to produce systems that are robust, high-quality, supportable, cost effective, and responsive. Skilled, knowledgeable professionals are in demand across engineering fields, but also in industries as diverse as healthcare and communications. Systems Engineering Management, Fifth Edition provides practical, invaluable guidance for a nuanced field.

Principles of Water Treatment

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

Statistics for the Behavioral and Social Sciences

Completely rewritten to enhance clarity, this third edition provides engineers with a strong understanding of the field. With the help of an additional co-author, the text presents new information on bioseparations throughout the chapters. A new chapter on mechanical separations covers settling, filtration, and centrifugation, including mechanical separations in biotechnology and cell lysis. Boxes help highlight fundamental equations. Numerous new examples and exercises are integrated throughout as well. In addition, frequent references are made to the software products and simulators that will help engineers find the solutions they need.

The ChemSep Book

This overview of diffusion and separation processes brings unsurpassed, engaging clarity to this complex topic. Diffusion is a key part of the undergraduate chemical engineering curriculum and at the core of understanding chemical purification and reaction engineering. This spontaneous mixing process is also central to our daily lives, with importance in phenomena as diverse as the dispersal of pollutants to digestion in the small intestine. For students, Diffusion goes from the basics of mass transfer and diffusion itself, with strong support through worked examples

and a range of student questions. It also takes the reader right through to the cutting edge of our understanding, and the new examples in this third edition will appeal to professional scientists and engineers. Retaining the trademark enthusiastic style, the broad coverage now extends to biology and medicine.

Separation Process Essentials

Fluid Mechanics for Chemical Engineers

Presenting engineering fundamentals and biological applications in a unified way, this book provides learners with the skills necessary to develop and critically analyze models of biological transport and reaction processes. It covers topics in fluid mechanics, mass transport, and biochemical interactions, with engineering concepts motivated by specific biological problems. For researchers in biomedical engineering.

Inherently Safer Chemical Processes

Human Resource Selection

Provides an excellent balance between theory and applications in the ever-evolving field of water and wastewater treatment. Completely updated and expanded, this is the most current and comprehensive textbook available for the areas of water and wastewater treatment, covering the broad spectrum of technologies used in practice today—ranging from commonly used standards to the latest state of the art innovations. The book begins with the fundamentals—applied water chemistry and applied microbiology—and then goes on to cover physical, chemical, and biological unit processes. Both theory and design concepts are developed systematically, combined in a unified way, and are fully supported by comprehensive, illustrative examples. *Theory and Practice of Water and Wastewater Treatment, 2nd Edition*: Addresses physical/chemical treatment, as well as biological treatment, of water and wastewater. Includes a discussion of new technologies, such as membrane processes for water and wastewater treatment, fixed-film biotreatment, and advanced oxidation. Provides detailed coverage of the fundamentals: basic applied water chemistry and applied microbiology. Fully updates chapters on analysis and constituents in water; microbiology; and disinfection. Develops theory and design concepts methodically and combines them in a cohesive manner. Includes a new chapter on life cycle analysis (LCA). *Theory and Practice of Water and Wastewater Treatment, 2nd Edition* is an important text for undergraduate and graduate level courses in water and/or wastewater treatment in Civil, Environmental, and Chemical Engineering.

Process Systems Analysis and Control

Unit Operations of Chemical Engineering

Principles and Modern Applications of Mass Transfer Operations

Pressure vessels are closed containers designed to hold gases or liquids at a pressure substantially different from the ambient pressure. They have a variety of applications in industry, including in oil refineries, nuclear reactors, vehicle airbrake reservoirs, and more. The pressure differential with such vessels is dangerous, and due to the risk of accident and fatality around their use, the design, manufacture, operation and inspection of pressure vessels is regulated by engineering authorities and guided by legal codes and standards. Pressure Vessel Design Manual is a solutions-focused guide to the many problems and technical challenges involved in the design of pressure vessels to match stringent standards and codes. It brings together otherwise scattered information and explanations into one easy-to-use resource to minimize research and take readers from problem to solution in the most direct manner possible. Covers almost all problems that a

working pressure vessel designer can expect to face, with 50+ step-by-step design procedures including a wealth of equations, explanations and data Internationally recognized, widely referenced and trusted, with 20+ years of use in over 30 countries making it an accepted industry standard guide Now revised with up-to-date ASME, ASCE and API regulatory code information, and dual unit coverage for increased ease of international use

Optimal Control

The latest edition of Juvinall/Marshek's Fundamentals of Machine Component Design focuses on sound problem solving strategies and skills needed to navigate through large amounts of information. Revisions in the text include coverage of Fatigue in addition to a continued concentration on the fundamentals of component design. Several other new features include new learning objectives added at the beginning of all chapters; updated end-of-chapter problems, the elimination of weak problems and addition of new problems; updated applications for currency and relevance and new ones where appropriate; new system analysis problems and examples; improved sections dealing with Fatigue; expanded coverage of failure theory; and updated references.

Engineering Electromagnetics

A NEW EDITION OF THE CLASSIC TEXT ON OPTIMAL CONTROL THEORY As a superb introductory text and an indispensable reference, this new edition of Optimal Control will serve the needs of both the professional engineer and the advanced student in mechanical, electrical, and aerospace engineering. Its coverage encompasses all the fundamental topics as well as the major changes that have occurred in recent years. An abundance of computer simulations using MATLAB and relevant Toolboxes is included to give the reader the actual experience of applying the theory to real-world situations. Major topics covered include: Static Optimization Optimal Control of Discrete-Time Systems Optimal Control of Continuous-Time Systems The Tracking Problem and Other LQR Extensions Final-Time-Free and Constrained Input Control Dynamic Programming Optimal Control for Polynomial Systems Output Feedback and Structured Control Robustness and Multivariable Frequency-Domain Techniques Differential Games Reinforcement Learning and Optimal Adaptive Control

Theory and Practice of Water and Wastewater Treatment

The official learn-to-sail manual of the American Sailing Association and the United States Coast Guard Auxiliary, with over 150 line drawings and photographs. Written by America's foremost instructional authority, the new edition of Sailing Fundamentals combines the training programs of the American Sailing Association and the United States Coast Guard Auxiliary. The official learn-to-sail manual of the

American Sailing Association, it is also used in the programs of many yacht clubs, colleges, and sailing groups. Unlike most introductory sailing books, which reflect the biases and idiosyncrasies of their authors, *Sailing Fundamentals* has been extensively pretested by ASA professional instructors to ensure that it offers the fastest, easiest, most systematic way to learn basic sailing and basic coastal cruising. This book covers every aspect of beginning sailing—from hoisting sail to docking and anchoring—and specifically prepares the learner to qualify for sailing certification according to international standards. Widely acclaimed author Gary Jobson has won several major races, including the 1977 America's Cup victory as tactician aboard *Courageous*. He was head sailing coach at the US Naval Academy, and has conducted sailing clinics across the country.

Product and Process Design Principles

A modern approach to payroll accounting, *Payroll Accounting 2020* provides a practitioners' view of this highly specialised area of accounting. *Payroll Accounting 2020* incorporates examples of real-world companies and highlights the relevance of the course in its coverage of issues that students will face in their careers. *Connect*: An easy-to-use homework and learning management solution that embeds learning science and award-winning adaptive tools to improve student results.

Mass-transfer Operations

The Definitive, Fully Updated Guide to Separation Process Engineering—Now with a Thorough Introduction to Mass Transfer Analysis Separation Process Engineering, Third Edition, is the most comprehensive, accessible guide available on modern separation processes and the fundamentals of mass transfer. Phillip C. Wankat teaches each key concept through detailed, realistic examples using real data—including up-to-date simulation practice and new spreadsheet-based exercises. Wankat thoroughly covers each of today's leading approaches, including flash, column, and batch distillation; exact calculations and shortcut methods for multicomponent distillation; staged and packed column design; absorption; stripping; and more. In this edition, he also presents the latest design methods for liquid-liquid extraction. This edition contains the most detailed coverage available of membrane separations and of sorption separations (adsorption, chromatography, and ion exchange). Updated with new techniques and references throughout, Separation Process Engineering, Third Edition, also contains more than 300 new homework problems, each tested in the author's Purdue University classes. Coverage includes Modular, up-to-date process simulation examples and homework problems, based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion, including both Fickian and Maxwell-Stefan approaches Detailed discussions of liquid-liquid extraction, including McCabe-Thiele, triangle and computer simulation analyses; mixer-settler

design; Karr columns; and related mass transfer analyses Thorough introductions to adsorption, chromatography, and ion exchange—designed to prepare students for advanced work in these areas Complete coverage of membrane separations, including gas permeation, reverse osmosis, ultrafiltration, pervaporation, and key applications A full chapter on economics and energy conservation in distillation Excel spreadsheets offering additional practice with problems in distillation, diffusion, mass transfer, and membrane separation

Principles of Chemical Separations with Environmental Applications

The Chemical Engineer's Practical Guide to Fluid Mechanics: Now Includes COMSOL Multiphysics 5 Since most chemical processing applications are conducted either partially or totally in the fluid phase, chemical engineers need mastery of fluid mechanics. Such knowledge is especially valuable in the biochemical, chemical, energy, fermentation, materials, mining, petroleum, pharmaceuticals, polymer, and waste-processing industries. Fluid Mechanics for Chemical Engineers: with Microfluidics, CFD, and COMSOL Multiphysics 5, Third Edition, systematically introduces fluid mechanics from the perspective of the chemical engineer who must understand actual physical behavior and solve real-world problems. Building on the book that earned Choice Magazine's Outstanding Academic Title award, this

edition also gives a comprehensive introduction to the popular COMSOL Multiphysics 5 software. This third edition contains extensive coverage of both microfluidics and computational fluid dynamics, systematically demonstrating CFD through detailed examples using COMSOL Multiphysics 5 and ANSYS Fluent. The chapter on turbulence now presents valuable CFD techniques to investigate practical situations such as turbulent mixing and recirculating flows. Part I offers a clear, succinct, easy-to-follow introduction to macroscopic fluid mechanics, including physical properties; hydrostatics; basic rate laws; and fundamental principles of flow through equipment. Part II turns to microscopic fluid mechanics: Differential equations of fluid mechanics Viscous-flow problems, some including polymer processing Laplace's equation; irrotational and porous-media flows Nearly unidirectional flows, from boundary layers to lubrication, calendaring, and thin-film applications Turbulent flows, showing how the $k-\epsilon$ method extends conventional mixing-length theory Bubble motion, two-phase flow, and fluidization Non-Newtonian fluids, including inelastic and viscoelastic fluids Microfluidics and electrokinetic flow effects, including electroosmosis, electrophoresis, streaming potentials, and electroosmotic switching Computational fluid mechanics with ANSYS Fluent and COMSOL Multiphysics Nearly 100 completely worked practical examples include 12 new COMSOL 5 examples: boundary layer flow, non-Newtonian flow, jet flow, die flow, lubrication, momentum diffusion, turbulent flow, and others. More than 300 end-of-chapter problems of varying complexity are presented, including several from University of Cambridge exams. The author

covers all material needed for the fluid mechanics portion of the professional engineer's exam. The author's website (fmche.engin.umich.edu) provides additional notes, problem-solving tips, and errata. Register your product at informit.com/register for convenient access to downloads, updates, and corrections as they become available.

Electrical Engineering

Principles of Water Treatment has been developed from the best selling reference work Water Treatment, 3rd edition by the same author team. It maintains the same quality writing, illustrations, and worked examples as the larger book, but in a smaller format which focuses on the treatment processes and not on the design of the facilities.

SEPARATION PROCESS PRINCIPLES, 2ND ED

Uses a large number of industrially-significant problems to convey an in-depth understanding of modern calculation procedures. Includes numerous topical examples and problems, and both conventional and SI units.

Multicomponent Mass Transfer

Addresses the use of rigorous multicomponent mass transfer models for the simulation and design of process equipment. Deals with the basic equations of diffusion in multicomponent systems. Describes various models and estimations of rates of mass and energy transfer. Covers applications of multicomponent mass transfer models to process design. Includes appendices providing necessary mathematical background. Contains a large number of numerical examples worked out in detail.

Payroll Accounting 2020

Equilibrium-Stage Separation Operations in Chemical Engineering

Provides undergraduates and practicing engineers with an understanding of the theory and applications behind the fundamental concepts of machine elements. This text includes examples and homework problems designed to test student understanding and build their skills in analysis and design.

Introductory Chemistry: An Atoms First Approach

The revised edition of Modern Digital Electronics focuses on rigorous coverage of design and analysis of complex digital circuits and systems through enhanced elucidation of Sequential Logic Design, PLDs, Memories and VHDL implementation codes. Begins with the fundamental concepts of digital electronics, it covers digital design using VHDL supported by plethora of examples.

Separation Process Principles with Applications Using Process Simulators, 4th Edition

PRINCIPLES OF MASS TRANSFER AND SEPERATION PROCESSES

This third edition provides chemical engineers with process control techniques that are used in practice while offering detailed mathematical analysis. Numerous examples and simulations are used to illustrate key theoretical concepts. New exercises are integrated throughout several chapters to reinforce concepts. Up-to-date information is also included on real-time optimization and model predictive control to highlight the significant impact these techniques have on industrial practice. And chemical engineers will find two new chapters on biosystems control to gain the latest perspective in the field.

Fundamentals of Machine Component Design

Key Terms; Example Worked-Out Problems; Practice Problems; Using SPSS; Answers to "How are you doing?"; 2 The Mean, Variance, Standard Deviation, and Z Scores; Representative Values; Bringing Statistics to Life Box 2-1 The Psychology of Statistics and the Tyranny of the Mean; Variability; Z Scores; Mean, Variance, Standard Deviation, and Z Scores in Research Articles; Learning Aids; Summary; Key Terms; Example Worked-Out Problems; Practice Problems; Using SPSS; Answers to "How are you doing?"; 3 Correlation and Prediction; Graphing Correlations; Patterns of Correlation

Engineering and Chemical Thermodynamics

Hands-On Microsoft Windows Server 2016

Content Description #Includes bibliographical references and index.

MODERN DIGITAL ELECTRONICS 4E

System Engineering Management

This textbook is targetted to undergraduate students in chemical engineering, chemical technology, and biochemical engineering for courses in mass transfer, separation processes, transport processes, and unit operations. The principles of mass transfer, both diffusional and convective have been comprehensively discussed. The application of these principles to separation processes is explained. The more common separation processes used in the chemical industries are individually described in separate chapters. The book also provides a good understanding of the construction, the operating principles, and the selection criteria of separation equipment. Recent developments in equipment have been included as far as possible. The procedure of equipment design and sizing has been illustrated by simple examples. An overview of different applications and aspects of membrane separation has also been provided. 'Humidification and water cooling', necessary in every process industry, is also described. Finally, elementary principles of 'unsteady state diffusion' and mass transfer accompanied by a chemical reaction are covered.

SALIENT FEATURES :

- A balanced coverage of theoretical principles and applications.
- Important recent developments in mass transfer equipment and practice are included.
- A large number of solved problems of varying levels of complexities showing the applications of the theory are included.
- Many end-chapter exercises.
- Chapter-wise multiple choice questions.
- An Instructors manual for the teachers.

Separation Process Principles

Market_Desc: · Chemical Engineers · Students of Engineering Special Features: · A new section on Dimensions and Units to facilitate the use of the SI, AE, and CGS systems, which permeate applications to separation processes.· Increased emphasis on the many ways used to express the composition of chemical mixtures.· New material on the thermodynamics of difficult mixtures, including electrolytes, polymer solutions, and mixtures of light gases and polar organic compounds.· New sections on the hybrid systems and membrane cascades.· New section on optimal control as a third mode of operation for batch distillation.· New discussion on concentration polarization and fouling. About The Book: Updated to reflect advances in the field, the second edition of this highly respected text examines rate-based and equilibrium-based approaches to separation operations. It describes the fundamentals of all separation operations of commercial interest, and includes theory and application examples in each chapter, as well as over 600 exercises.

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