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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.

Chemical Process Equipment is a results-oriented reference for engineers who specify, design, maintain or run chemical and process plants. This book delivers information on the selection, sizing and operation of process equipment in a format that enables quick and accurate decision making on standard process and equipment choices, saving time, improving productivity, and building understanding. Coverage emphasizes common real-world equipment design rather than experimental or esoteric and focuses on maximizing performance. Legacy reference for chemical and related engineers who work with vendors to design, specify and make final equipment selection decisions Copious examples of successful applications, with supporting schematics and data to illustrate the functioning and performance of equipment Provides equipment rating forms and manufacturers data, worked examples, valuable shortcut methods, and rules of thumb to demonstrate and support the design process Heavily illustrated with line drawings and schematics to aid understanding, as well as graphs and tables to illustrate performance data

A problem-solving approach that helps students master new material and put their knowledge into practice The Second Edition of the acclaimed Principles and Modern Applications of Mass Transfer Operations continues to provide a thorough, accessible text that gives students the support and the tools they need to quickly move from theory to application. This latest edition has been thoroughly revised and updated with new discussions of such developing topics as membrane separations, ion exchange, multistage batch distillation, and chromatography and other adsorptive processes. Moreover, the Second Edition now covers mass transfer phenomena in biological systems, making the text appropriate for students in biochemical engineering as well as chemical engineering. Complementing the author's clear discussions are several features that help students quickly master new material and put their knowledge into practice, including: Twenty-five to thirty problems at the end of each chapter that enable students to use their newfound knowledge to solve problems Examples and problems that help students become proficient working with Mathcad Figures and diagrams that illustrate and clarify complex concepts and processes References facilitating further in-depth research into particular topics Ten appendices filled with helpful data and reference materials Ideal for a first course in mass transfer operations, this text has proven to be invaluable to students in chemical and environmental engineering as well as researchers and university faculty.

Written by more than 40 world renowned authorities in the field, this reference presents information on plant design, significant chemical reactions, and processing operations in industrial use - offering shortcut calculation methods wherever possible.

Written for the upper level undergraduate, this updated book is also a solid reference for the graduate food engineering student and professional. This edition features the addition of sections on freezing, pumps, the use of chemical reaction kinetic date for thermal process optimization, and vacuum belt drying. New sections on accurate temperature measurements, microbiological inactivation curves, inactivation of microorganisms and enzymes, pasteurization, and entrainment are included, as are non-linear curve fitting and processes dependent on fluid film thickness. Other sections have been expanded.

Presents comprehensive coverage of the subject of thermodynamics from a chemical engineering viewpoint. This text provides an exposition of the principles of thermodynamics and details their application to chemical processes. It contains problems, examples, and illustrations to help students understand complex concepts.

This book offers a comprehensive presentation of the concepts, properties, and applications of complex materials. Authors of each chapter use a fundamental approach to define the structure and properties of a wide range of solids on the basis of the local chemical bonding and atomic order present in the material. Emphasizing the physical and chemical origins of different material properties, this important volume focuses on the most technologically important materials being utilized and developed by scientists and engineers.

Part II covers applications in greater detail. The three transport phenomena--heat, mass, and momentum transfer--are treated in depth through simultaneous (or parallel) developments.