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CHEMICAL ENGINEERING SERIES

Unit Operations of Chemical Engineering

SEVENTH EDITION

Warren L. McCabe
Julian C. Smith
Peter Harriott

Unit Operations Chemical Engineering McCabe Smith

Frank Lees



Unit Operations Chemical Engineering McCabe Smith:

Unit Operations of Chemical Engineering Warren Lee McCabe, Julian Cleveland Smith, 1967 **Unit Operations of Chemical Engineering** Julian Smith, Warren McCabe, Peter Harriott, emeritus, 2004-10-27 Recently Published Unit Operations of Chemical Engineering 7th edition continues its lengthy successful tradition of being one of McGraw Hill's oldest texts in the Chemical Engineering Series. Since 1956 this text has been the most comprehensive of the introductory undergraduate chemical engineering titles available. Separate chapters are devoted to each of the principle unit operations grouped into four sections: fluid mechanics, heat transfer, mass transfer, and equilibrium stages and operations involving particulate solids. Now in its seventh edition, the text still contains its balanced treatment of theory and engineering practice with many practical illustrative examples included. Almost 30% of the problems have been revised or are new, some of which cover modern topics such as food processing and biotechnology. Other unique topics of this text include diafiltration, adsorption, and membrane operations.

Unit Operations of Chemical Engineering Warren L. McCabe, Julian C. Smith, 1965 **PRINCIPLES OF MASS TRANSFER** KAL RENGANATHAN SHARMA, 2007-01-21 This book addresses the specific needs of undergraduate chemical engineering students for the two courses in Mass Transfer I and Mass Transfer II. It is also suitable for a course in Downstream Processing for biotechnology students. This self-contained textbook is designed to provide single volume coverage of the full spectrum of techniques for chemical separations. The operations covered include vapour distillation, fluid adsorption, gas absorption, liquid extraction, solid leaching, gas humidification, solid drying, foam separation, solution crystallization, metal alloying, reverse osmosis, molecular sieves, electrodialysis, and ion exchange. The text also discusses emerging applications such as drug delivery, gel electrophoresis, bleaching, membrane separations, polymer devolatilization, solution crystallization, and gas chromatography. Equipment selection is discussed for different operations. A table of industrial applications for each and every mass transfer unit operation is provided. The worked examples illustrate problems from chemical process and biotechnology industries. Review questions encourage critical thinking, and end-of-chapter problems emphasize grasping of the fundamentals as well as illustrate applications of theory to a wide variety of scenarios.

KEY FEATURES Includes several case studies ranging from manufacture of vitamin C, prilling tower to granulate urea to vanaspati discoloration and wilting of the lettuce. Introduces generalized Fick's law of diffusion. Discusses hollow fibre mass exchangers. Introduces new concepts such as cosolvent factor, Z-step procedure for multistage cross-current extraction.

Lees' Loss Prevention in the Process Industries Frank Lees, 2005-01-10 Over the last three decades the process industries have grown very rapidly with corresponding increases in the quantities of hazardous materials in process, storage, or transport. Plants have become larger and are often situated in or close to densely populated areas. Increased hazard of loss of life or property is continually highlighted with incidents such as Flixborough, Bhopal, Chernobyl, Three Mile Island, the Phillips 66 incident, and Piper Alpha, to name but a few. The field of Loss Prevention is and continues to be of supreme

importance to countless companies municipalities and governments around the world because of the trend for processing plants to become larger and often be situated in or close to densely populated areas thus increasing the hazard of loss of life or property This book is a detailed guidebook to defending against these and many other hazards It could without exaggeration be referred to as the bible for the process industries This is THE standard reference work for chemical and process engineering safety professionals For years it has been the most complete collection of information on the theory practice design elements equipment regulations and laws covering the field of process safety An entire library of alternative books and cross referencing systems would be needed to replace or improve upon it but everything of importance to safety professionals engineers and managers can be found in this all encompassing reference instead Frank Lees world renowned work has been fully revised and expanded by a team of leading chemical and process engineers working under the guidance of one of the world s chief experts in this field Sam Mannan is professor of chemical engineering at Texas A principles practice codes standards data and references needed by those practicing in the field

Unit Operations of Chemical Engineering McCabe W. L.,1980 **Transport Phenomena and Unit Operations** Richard G. Griskey,2005-01-14 The subject of transport phenomena has long been thoroughly and expertly addressed on the graduate and theoretical levels Now Transport Phenomena and Unit Operations A Combined Approach endeavors not only to introduce the fundamentals of the discipline to a broader undergraduate level audience but also to apply itself to the concerns of practicing engineers as they design analyze and construct industrial equipment Richard Griskey s innovative text combines the often separated but intimately related disciplines of transport phenomena and unit operations into one cohesive treatment While the latter was an academic precursor to the former undergraduate students are often exposed to one at the expense of the other Transport Phenomena and Unit Operations bridges the gap between theory and practice with a focus on advancing the concept of the engineer as practitioner Chapters in this comprehensive volume include Transport Processes and Coefficients Frictional Flow in Conduits Free and Forced Convective Heat Transfer Heat Exchangers Mass Transfer Molecular Diffusion Equilibrium Staged Operations Mechanical Separations Each chapter contains a set of comprehensive problem sets with real world quantitative data affording students the opportunity to test their knowledge in practical situations Transport Phenomena and Unit Operations is an ideal text for undergraduate engineering students as well as for engineering professionals

Unit operations of chemical engineering series (third edition). Warren L. | Smith McCabe (Julian C.),1956 **Unit operations of chemical engineering** Warren L. McCabe,1976 **Fuel Cell Handbook (Sixth Edition)** , **Transport Phenomena** Robert S. Brodkey,Harry C. Hershey,2003-02 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

Unit Operations in Environmental Engineering Louis Theodore,R. Ryan Dupont,Kumar Ganesan,2017-09-18 The book presents the principles of unit operations as well as the application of these principles to real world problems The authors have written a practical

introductory text exploring the theory and applications of unit operations for environmental engineers that is a comprehensive update to Linvil Rich's 1961 classic work *Unit Operations in Sanitary Engineering*. The book is designed to serve as a training tool for those individuals pursuing degrees that include courses on unit operations. Although the literature is inundated with publications in this area emphasizing theory and theoretical derivations, the goal of this book is to present the subject from a strictly pragmatic introductory point of view, particularly for those individuals involved with environmental engineering. This book is concerned with unit operations: fluid flow, heat transfer, and mass transfer. Unit operations, by definition, are physical processes, although there are some that include chemical and biological reactions. The unit operations approach allows both the practicing engineer and student to compartmentalize the various operations that constitute a process and emphasizes introductory engineering principles so that the reader can then satisfactorily predict the performance of the various unit operations equipment. This is a definitive work on Unit Operations, one of the most important subjects in environmental engineering today. It is an excellent reference, well written, easily read, and comprehensive. I believe the book will serve well those working in engineering disciplines including those beyond just environmental and chemical engineering. Bottom line: A must for any technical library. Kenneth J. Skipka, CCM

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.

Unit Operations in Food Engineering Albert Ibarz, Gustavo V. Barbosa-Canovas, 2002-10-29 In order to successfully produce food products with maximum quality, each stage of processing must be well designed. *Unit Operations in Food Engineering* systematically presents the basic information necessary to design food processes and the equipment needed to carry them out. It covers the most common food

engineering unit operations in detail in Profit Maximization Techniques for Operating Chemical Plants Sandip K. Lahiri, 2020-07-13 A systematic approach to profit optimization utilizing strategic solutions and methodologies for the chemical process industry In the ongoing battle to reduce the cost of production and increase profit margin within the chemical process industry leaders are searching for new ways to deploy profit optimization strategies Profit Maximization Techniques For Operating Chemical Plants defines strategic planning and implementation techniques for managers senior executives and technical service consultants to help increase profit margins The book provides in depth insight and practical tools to help readers find new and unique opportunities to implement profit optimization strategies From identifying where the large profit improvement projects are to increasing plant capacity and pushing plant operations towards multiple constraints while maintaining continuous improvements there is a plethora of information to help keep plant operations on budget The book also includes information on Take away methods and techniques for identifying and exploiting potential areas to improve profit within the plant Focus on latest Artificial Intelligence based modeling knowledge discovery and optimization strategies to maximize profit in running plant Describes procedure to develop advance process monitoring and fault diagnosis in running plant Thoughts on engineering design best practices and monitoring to sustain profit improvements Step by step guides to identifying building and deploying improvement applications For leaders and technologists in the industry who want to maximize profit margins this text provides basic concepts guidelines and step by step guides specifically for the chemical plant sector

A Dictionary of Chemical Engineering Carl Schaschke, 2014-01-09 A Dictionary of Chemical Engineering is one of the latest additions to the market leading Oxford Paperback Reference series In over 3 400 concise and authoritative A to Z entries it provides definitions and explanations for chemical engineering terms in areas including materials energy balances reactions separations sustainability safety and ethics Naturally the dictionary also covers many pertinent terms from the fields of chemistry physics biology and mathematics Useful entry level web links are listed and regularly updated on a dedicated companion website to expand the coverage of the dictionary Comprehensively cross referenced and complemented by over 60 line drawings this excellent new volume is the most authoritative dictionary of its kind It is an essential reference source for students of chemical engineering for professionals in this field as well as related disciplines such as applied chemistry chemical technology and process engineering and for anyone with an interest in the subject

Fundamentals and Operations in Food Process Engineering Susanta Kumar Das, Madhusweta Das, 2019-03-08 Fundamentals and Operations in Food Process Engineering deals with the basic engineering principles and transport processes applied to food processing followed by specific unit operations with a large number of worked out examples and problems for practice in each chapter The book is divided into four sections fundamentals in food process engineering mechanical operations in food processing thermal operations in food processing and mass transfer operations in food processing The book is designed for students pursuing courses on food science and food technology including a broader

section of scientific personnel in the food processing and related industries *Introduction to Chemical Engineering Kinetics and Reactor Design* Charles G. Hill, Thatcher W. Root, 2014-05-27 The Second Edition features new problems that engage readers in contemporary reactor design Highly praised by instructors students and chemical engineers Introduction to Chemical Engineering Kinetics Reactor Design has been extensively revised and updated in this Second Edition The text continues to offer a solid background in chemical reaction kinetics as well as in material and energy balances preparing readers with the foundation necessary for success in the design of chemical reactors Moreover it reflects not only the basic engineering science but also the mathematical tools used by today's engineers to solve problems associated with the design of chemical reactors Introduction to Chemical Engineering Kinetics Reactor Design enables readers to progressively build their knowledge and skills by applying the laws of conservation of mass and energy to increasingly more difficult challenges in reactor design The first one third of the text emphasizes general principles of chemical reaction kinetics setting the stage for the subsequent treatment of reactors intended to carry out homogeneous reactions heterogeneous catalytic reactions and biochemical transformations Topics include Thermodynamics of chemical reactions Determination of reaction rate expressions Elements of heterogeneous catalysis Basic concepts in reactor design and ideal reactor models Temperature and energy effects in chemical reactors Basic and applied aspects of biochemical transformations and bioreactors About 70% of the problems in this Second Edition are new These problems frequently based on articles culled from the research literature help readers develop a solid understanding of the material Many of these new problems also offer readers opportunities to use current software applications such as Mathcad and MATLAB By enabling readers to progressively build and apply their knowledge the Second Edition of Introduction to Chemical Engineering Kinetics Reactor Design remains a premier text for students in chemical engineering and a valuable resource for practicing engineers **Catalog of Copyright Entries. Third Series** Library of Congress. Copyright Office, 1971 **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

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