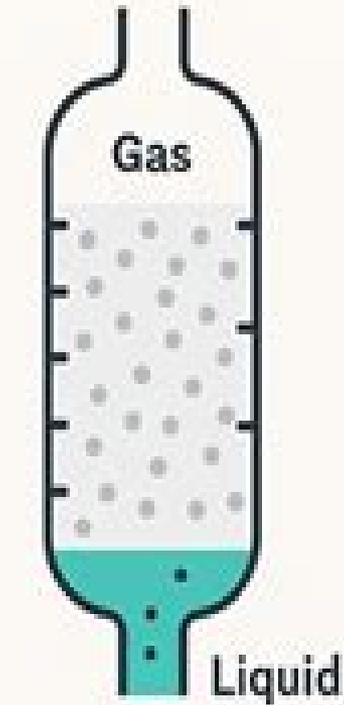


MASS TRANSFER OPERATIONS



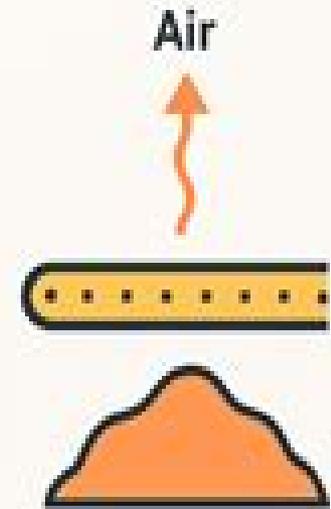
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Absorption



Extraction



Drying

Mass Transfer Operations

Alapati Suryanarayana



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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

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Mass-transfer Operations Robert Ewald Treybal,1967 **Mass-transfer Operations** Robert E. Treybal,1988 Mass-transfer Operations [by] Robert E. Treybal Robert Ewald Treybal,1967 Principles and Modern Applications of Mass Transfer Operations Jaime Benitez,2016-12-16 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 **Mass Transfer** A. P. SINHA, PARAMESWAR DE, 2012-05-09 This book introduces the fundamental principles of the mass transfer phenomenon and its diverse applications in process industry It covers the full spectrum of techniques for chemical separations and extraction Beginning with molecular diffusion in gases liquids and solids within a single phase the mechanism of inter phase mass transfer is explained with the help of several theories The separation operations are explained comprehensively in two distinct ways stage wise contact and continuous differential contact The primary design requirements of gas liquid equipment are discussed The book provides a detailed discussion on all individual gas liquid liquid liquid solid gas and solid liquid separation processes The students are also exposed to the underlying principles of the membrane based separation processes The book is replete with real applications of separation processes and equipment Problems are worked out in each chapter Besides problems with answers short questions multiple choice questions with answers are given at the end of each chapter The text is intended for a course on mass transfer transport and separation processes prescribed for the undergraduate and postgraduate students of chemical engineering Mass-transfer Operations R.E. Treybal, 1986
Mass-transfer Operations Robert E. Treybal, 1968 **MASS TRANSFER** N. Anantharaman, K. M. Meera Sheriffa Begum, 2011-05 Mass transfer operations are of great importance in a process industry as it has a direct impact on the cost of the final product A chemical process engineer therefore should have sound knowledge of the basics of mass transfer and its applications This book is designed to equip the reader with sufficient knowledge of mass transfer operations and face the challenges ahead The objective of this textbook is to teach a budding chemical engineer the principles involved in analyzing a process and apply the desired mass transfer operation to separate the components involved It deals with operations involving diffusion interphase mass transfer humidification drying crystallization absorption distillation extraction leaching and adsorption The principles and equipment used for different mass transfer operations have been lucidly explained Designed for a two semester course this text is primarily intended for the undergraduate students of chemical pharmaceutical petrochemical engineering as well as biotechnology and industrial biotechnology It will also be useful to plant engineers and design professionals **KEY FEATURES** 1 Explains the theoretical concepts with full derivation of equations 2 Illustrates the application of theory through worked out numerical examples 3 Provides exercise problems with answers at the end of each chapter for practice An Introduction to Mass Transfer Operations for Chemical Engineers Cecil Coutinho, 2010 Mass transfer involves the net movement of mass from one location to another due to a driving force such as a difference in concentration gradient It finds extensive application in chemical engineering due to its application in crude oil refining petrochemical separation and extraction processes In general the random motion of molecules causes a net transfer of mass from an area of high concentration to an area of low concentration For separation processes thermodynamics determines the extent of separation while mass transfer determines the rate at which the separation will occur **Principles and Modern**

Applications of Mass Transfer Operations , *Principles and Modern Applications of Mass Transfer Operations* Jaime Benitez, 2011-09-20 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

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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. 2. Ed R.E. Treybal,1968** **PRINCIPLES OF MASS TRANSFER AND SEPERATION PROCESSES** DUTTA, BINAY K.,2007-01-21 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 Mass Transfer and Separation Processes Diran Basmadjian,2007-04-25 Mass transfer along with separation processes is an area that is often quite challenging to master as most volumes currently available complicate the learning by teaching mass transfer linked with heat transfer rather than focusing on more relevant techniques With this thoroughly updated second edition Mass Transfer and Separation Processes Pr Unit Operations-II Ka Gavhane,2014-11 Introduction Conduction Convection Radiation Heat Exchange Equipments Evaporation Diffusion Distillation Gas Absorption Liquid Liquid Extraction Crystallisation Drying Appendix I Try yourself Appendix II Thermal conductivity data Appendix III Steam tables

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