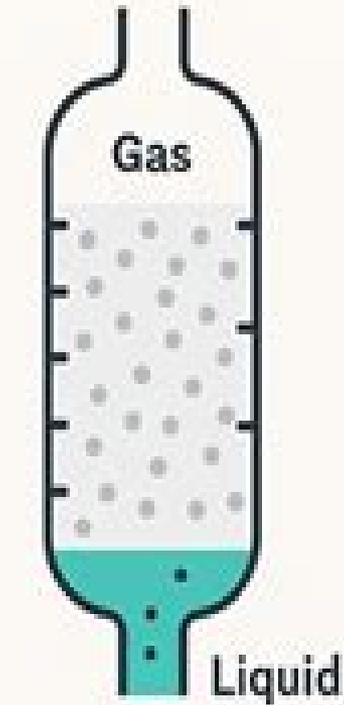


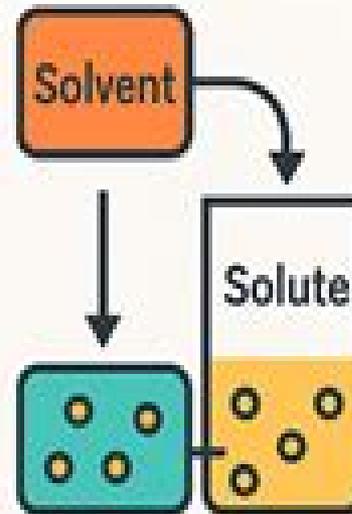
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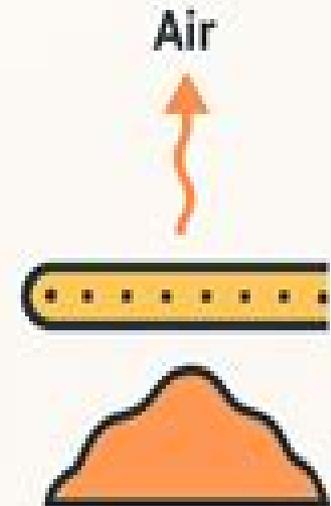
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Absorption



Extraction



Drying

Mass Transfer In Engineering Practice

Hemming Lindberg

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Mass Transfer In Engineering Practice:

Mass Transfer in Engineering Practice Aksel Lydersen,1983-01-01 **Mass Transfer in Engineering Practice** Aksel Lydersen,1983 **Fluid Mechanics, Heat Transfer, and Mass Transfer** K. S. Raju,2011-04-20 This broad based book covers the three major areas of Chemical Engineering Most of the books in the market involve one of the individual areas namely Fluid Mechanics Heat Transfer or Mass Transfer rather than all the three This book presents this material in a single source This avoids the user having to refer to a number of books to obtain information Most published books covering all the three areas in a single source emphasize theory rather than practical issues This book is written with emphasis on practice with brief theoretical concepts in the form of questions and answers not adopting stereo typed question answer approach practiced in certain books in the market bridging the two areas of theory and practice with respect to the core areas of chemical engineering Most parts of the book are easily understandable by those who are not experts in the field Fluid Mechanics chapters include basics on non Newtonian systems which for instance find importance in polymer and food processing flow through piping flow measurement pumps mixing technology and fluidization and two phase flow For example it covers types of pumps and valves membranes and areas of their use different equipment commonly used in chemical industry and their merits and drawbacks Heat Transfer chapters cover the basics involved in conduction convection and radiation with emphasis on insulation heat exchangers evaporators condensers reboilers and fired heaters Design methods performance operational issues and maintenance problems are highlighted Topics such as heat pipes heat pumps heat tracing steam traps refrigeration cooling of electronic devices NOx control find place in the book Mass transfer chapters cover basics such as diffusion theories analogies mass transfer coefficients and mass transfer with chemical reaction equipment such as tray and packed columns column internals including structural packings design operational and installation issues drums and separators are discussed in good detail Absorption distillation extraction and leaching with applications and design methods including emerging practices involving Divided Wall and Petluk column arrangements multicomponent separations supercritical solvent extraction find place in the book **Mass Transfer in Engineering Practice** Lydersen AL.,1983 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

Heat and Mass Transfer Yunus A. Çengel,2007 With complete coverage of the basic principles of heat transfer and a broad range of applications in a flexible format Heat Transfer A Practical Approach provides the perfect blend of fundamentals and applications The text provides a highly intuitive and practical understanding of the material by emphasizing the physics and the underlying physical phenomena involved Using a reader friendly approach and a conversational writing style the book is self instructive and entertains while it teaches It shows that highly technical matter can be communicated effectively in a simple yet precise language

FUNDAMENTALS OF HEAT AND MASS TRANSFER B. K. VENKANNA,2010-01-01 This comprehensive text on the basics of heat and mass transfer provides a well balanced treatment of theory and mathematical and empirical methods used for solving a variety of engineering problems The book helps students develop an intuitive and practical understanding of the processes by emphasizing the underlying physical phenomena involved Focusing on the requirement to clearly explain the essential fundamentals and impart the art of problem solving the text is written to meet the needs of undergraduate students in mechanical engineering production engineering industrial engineering auto mobile engineering aeronautical engineering chemical engineering and biotechnology *Heat and Mass Transfer* Kurt C. Rolle,2016 Mass Transfer in Three-phase Fluidized Beds ,1978

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 Basic Heat and Mass Transfer Anthony F. Mills,1995 A unique feature of Basic Heat and Mass Transfer is that it has a fully integrated package of computer software The software is intended to serve primarily as a tool for the student at college as well as later in engineering practice **Mass Transfer in Three-phase Fluidized Beds** B. W. Wu,F. V. Gay,C. B. Holtman,J. M. Begovich,Norman Fred Sheppard,S. D. Clinton,J. S. Watson,Oak Ridge National Laboratory,Massachusetts Institute of Technology. School of Chemical Engineering Practice. Oak Ridge Station,1978 Mass Transfer Operations Alapati Suryanarayana,2002 In A Simple And Systematic Manner This Book Presents An Exhaustive Account Of Various Mass Transfer Operations Involved In Chemical Engineering Emphasising The Basic Concepts And Techniques The Book Discusses In Detail Material And Energy Balances Distillation Absorption And Stripping And Extraction The Book Also Explains The Relevant Aspects Of Equipment Design Recent Developments Like Permeation Ion Exchange And Froth Flootation Have Also Been Discussed A Large Number Of Digital Computer Programs Are Included To Illustrate Computer Aided Techniques Several Solved Examples And Practice Problems Are Presented In Each Chapter To Illustrate The Theory With All These Features This Is An Ideal Text For Undergraduate Chemical Engineering Students Practising Engineers And Students Of Pharmacy And Metallurgy Would Also Find The Book A Useful Reference Source Fundamentals of Heat and Mass Transfer T. L. Bergman,2011-04-12 Fundamentals of Heat and Mass Transfer 7th Edition is the gold standard of heat transfer pedagogy for more than 30 years with a commitment to continuous improvement by four authors having more than 150 years of combined experience in heat transfer education research and practice Using a rigorous and systematic problem solving methodology pioneered by this text it is abundantly filled with examples and problems that reveal the richness and beauty of the discipline This edition maintains its foundation in the four central learning objectives for students and also makes heat and mass transfer more approachable with an additional emphasis on the fundamental concepts as well as highlighting the relevance of those ideas with exciting applications to the most critical issues of today and the coming decades energy and the environment An updated version of Interactive Heat Transfer IHT software makes it even easier to efficiently and accurately solve problems **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

Heat and Mass Transfer, SI Edition Kurt Rolle,2015-01-20

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Mass Transfer Diran Basmadjian,2003-12-15

In recent years the subject of mass transfer has been treated as a minor player in the larger field of transport phenomena and taken a back seat to its more mature brother heat transfer Yet mass transfer is sufficiently mature as a discipline and sufficiently distinct from other transport processes to merit a separate treatment particularly one that does not overwhelm readers with an abundance of high level mathematics Mass Transfer Principles and Applications takes an integrated approach that uses a wealth of real world examples organizes the material according to mode of operation and highlights the importance of modeling The author begins by introducing diffusion rates Fick s Law film theory and mass transfer coefficients then develops these concepts in complementary stages The treatment of phase equilibria covers topics generally not addressed in thermodynamics courses and these concepts are then used to analyze compartmental models and staged processes as well as continuous contact operations The final chapter offers a concise survey of simultaneous mass and heat transfer Throughout the book discussions transition smoothly between theory and practice and clearly reflect the author s many years of engineering experience and the breadth of mass transfer applications Mass Transfer Principles and Applications is a unique and accessible treatment of this relatively complicated topic that will fill a significant gap as both a textbook and professional reference

Mass Transfer in Chemical Engineering Processes Hemming Lindberg,2016-04-01

Mass transfer describes the net movement of mass from one location usually meaning stream phase fraction or component to

another Mass transfer happens in many processes such as absorption evaporation adsorption drying precipitation membrane filtration and distillation Mass transfer is used by different scientific disciplines for different processes and mechanisms The phrase is commonly used in engineering for physical processes that involve diffusive and convective transport of chemical species within physical systems The theory of mass transfer allows for the computation of mass flux in a system and the distribution of the mass of different species over time and space in such a system also when chemical reactions are present The purpose of such computations is to understand and possibly design or control such a system Some usual phenomenon of mass transfer processes are the evaporation of water from a pond to the atmosphere the purification of blood in the kidneys and liver and the distillation of alcohol In industrial processes mass transfer operations include separation of chemical components in distillation columns Mass transfer is frequently attached to additional transport processes such as in industrial cooling towers These towers combine heat transfer to mass transfer by sanctioning hot water to flow in dealings with hotter air and evaporate as it grips heat from the air This book entitled Mass Transfer in Chemical Engineering Processes compromises several approaches in solving mass transfer problems for different practical chemical engineering applications The book should be of great importance to its readers with interesting ideas and inspirations or direct solutions of their particular problems

Heat and Mass Transfer for Chemical Engineers: Principles and Applications Giorgio Carta, 2021-08-20 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product Learn to solve real world chemical engineering problems by applying heat and mass transfer principles This textbook provides a concept based introduction to heat and mass transfer principles and lays out the foundation to practical applications in a broad range of fields relevant to chemical and biochemical processing Readers will learn about conductive diffusive and convective transport mechanisms and explore the thermal design of heat exchangers and packed gas absorption columns Heat and Mass Transfer for Chemical Engineers emphasizes principles and conceptual understanding of the phenomena that govern transport of heat and mass Readers will get comprehensive discussions on conductive and diffusive processes and the engineering correlations between momentum heat and mass transfer The book refers extensively to Perry's Chemical Engineers Handbook Ninth Edition for data and correlations Provides an in depth introduction to heat and mass transfer principles Mathematica workbooks are provided to facilitate calculations and explore trends Written by a recognized academic and experienced author

Heat and Mass Transfer Hans Dieter Baehr, Karl Stephan, 2013-04-17 This book is the English translation of our German publication which appeared in 1994 with the title Wärme und Stoffübertragung 2nd edition Berlin Springer Verlag 1996 The German version originated from lecture courses in heat and mass transfer which we have held for many years at the Universities of Hannover and Stuttgart respectively Our book is intended for students of mechanical and chemical engineering at universities and engineering schools but will also be of use to students of other subjects such as electrical

engineering physics and chemistry Firstly our book should be used as a textbook alongside the lecture course Its intention is to make the student familiar with the fundamentals of heat and mass transfer and enable him to solve practical problems On the other hand we placed special emphasis on a systematic development of the theory of heat and mass transfer and gave extensive discussions of the essential solution methods for heat and mass transfer problems Therefore the book will also serve in the advanced training of practising engineers and scientists and as a reference work for the solution of their tasks The material is explained with the assistance of a large number of calculated examples and at the end of each chapter a series of exercises is given This should also make self study easier

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