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 Fundamentals Of Heat And Mass Transfer, 5Th Ed
 Heat and Mass Transfer Data Book
 Mass Transfer
 Multicomponent Mass Transfer
 Heat and Mass Transfer in Packed Beds
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 Mass-transfer Operations
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 Mass Transfer Operations
 Heat and Mass Transfer in Capillary-Porous Bodies
 Mass Transfer
 PRINCIPLES OF MASS TRANSFER AND SEPERATION PROCESSES
 A Heat Transfer Textbook
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 Transport Phenomena
 Heat and Mass Transfer for Chemical Engineers: Principles and Applications
 Mass Transfer
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 Mass-transfer Operations
 Transport Phenomena in Heat and Mass Transfer
 Diffusion
 Mass Transfer
 A Textbook of Heat and Mass Transfer
 Mass Transfer and Separation Processes
 Advanced Heat and Mass Transfer
 Fluid Mechanics, Heat Transfer, and Mass Transfer
 Mass Transfer and Absorbers
 Momentum, Energy, and Mass Transfer in Continua
 Fundamentals of Heat and Mass Transfer
 A Textbook of Heat and Mass Transfer [Concise Edition]

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Nanofluids for Heat and Mass Transfer Academic Press
 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.

Heat And Mass Transfer, 6th Edition, Si Units PHI Learning Pvt. Ltd.

This substantially revised text represents a broader based biological engineering title. It includes medicine and other applications that are desired in curricula supported by the American Society of Agricultural and Biological Engineers, as well as many bioengineering departments in both U.S. and worldwide departments. This new edition will focus on a significant number of biological applications, problem-solving techniques, and solved examples. Specifically there will be 160+ interesting application problems over an extended biological base (biomedical, bioenvironmental, etc.) that were originally developed by the author throughout his 13 years of teaching this course at Cornell. *Diffusion and Mass Transfer* McGraw-Hill Science, Engineering & Mathematics

[A Textbook of Heat and Mass Transfer] is a comprehensive textbook for the students of Mechanical Engineering and a must-

buy for the aspirants of different entrance examinations including GATE and UPSC. Divided into 4 parts, the book delves into the subject beginning from Basic Concepts and goes on to discuss Heat Transfer (by Convection and Radiation) and Mass Transfer. The book also becomes useful as a question bank for students as it offers university as well as entrance exam questions with solutions.

Heat and Mass Transfer Elsevier

Mass Transfer and Absorbers deals with absorption and mass transfer processes and the factors to consider in designing absorbers. Calculations are supported by a uniform, generalized process driving force, complying with Maxwell's equation, and the coefficients are made as independent as possible in terms of the kind of diffusion and of the values of the concentrations. This volume is comprised of seven chapters and begins with an overview of the general principles of diffusional mass transfer, absorption and stripping, and equilibrium between gas and liquid phases. Steady-state mass transfer by diffusion is then discussed, along with mass transfer in a single phase (forced flow and unforced flow). Subsequent chapters explore design considerations for mass transfer equipment and related problems; adsorption accompanied by a chemical reaction; and problems relating to hydrodynamics. The final chapter is devoted to some practical issues, including economic flow velocity and mechanical features of packed, plate, and spray tower designs. This book is intended for practicing designers and engineers.

Mass and Heat Transfer McGraw-Hill Science, Engineering & Mathematics

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.

Fundamentals of Momentum, Heat, and Mass Transfer Global Digital Press

This didactic approach to the principles and modeling of mass transfer as it is needed in modern industrial processes is unique in combining a step-by-step introduction to all important fundamentals with the most recent applications. Based upon the renowned author's successful new modeling method as used for the O-18 process, the exemplary exercises included in the text are fact-proven, taken directly from existing chemical plants. Fascinating reading for chemists, graduate students, chemical and process engineers, as well as thermodynamics physicists.

Heat and Mass Transfer CRC Press

"Heat and mass transfer is a basic science that deals with the rate of transfer of thermal energy. It is an exciting and fascinating subject with unlimited practical applications ranging from biological systems to common household appliances, residential and commercial buildings, industrial processes, electronic devices, and food processing. Students are assumed to have an adequate background in calculus and physics"--

Fundamentals Of Heat And Mass Transfer, 5Th Ed John Wiley & Sons

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

Heat and Mass Transfer Data Book Pearson Education India

This book provides a solid foundation in the principles of heat and

mass transfer and shows how to solve problems by applying modern methods. The basic theory is developed systematically, exploring in detail the solution methods to all important problems. The revised second edition incorporates state-of-the-art findings on heat and mass transfer correlations. The book will be useful not only to upper- and graduate-level students, but also to practicing scientists and engineers. Many worked-out examples and numerous exercises with their solutions will facilitate learning and understanding, and an appendix includes data on key properties of important substances.

Mass Transfer PHI Learning Pvt. Ltd.

First published in 1982. Routledge is an imprint of Taylor & Francis, an informa company.

Multicomponent Mass Transfer PHI Learning Pvt. Ltd.

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.

Heat and Mass Transfer in Packed Beds Springer Science & Business Media

Author's purpose is "to provide a vehicle for teaching, either through a formal course or through self-study, the techniques of, and principles of equipment design for, the mass-transfer operations of chemical engineering." As before, these operations are largely the responsibility of the chemical engineer, but increasingly practitioners of other engineering disciplines are finding them necessary for their work. This is especially true for those engaged in pollution control and environment protection, where separation processes predominate, and in, for example, extractive metallurgy, where more sophisticated and diverse methods of separation are increasingly relied upon.

Mass Transfer New Age International

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, NO_x 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 McGraw Hill Professional

A thorough introduction to the fundamentals and applications of microscopic and macroscopic mass transfer.

Heat and Mass Transfer Springer Nature

Theoretical, numerical and experimental studies of transport phenomena in heat and mass transfer are reported in depth in this volume. Papers are presented which review and discuss the most recent developments in areas such as: Mass transfer; Cooling of electronic components; Phase change processes; Instrumentation techniques; Numerical methods; Heat transfer in rotating machinery; Hypersonic flows; and Industrial applications. Bringing together the experience of specialists in these fields, the volume will be of interest to researchers and practising engineers who wish to enhance their knowledge in these rapidly developing areas.

Mass-transfer Operations Academic Press

All relevant advanced heat and mass transfer topics in heat conduction, convection, radiation, and multi-phase transport phenomena, are covered in a single textbook, and are explained from a fundamental point of view.

Heat and Mass Transfer Data Book Cambridge University Press

CD-ROM contains: the limited academic version of Engineering equation solver(EES) with homework problems.

Mass Transfer Operations Elsevier

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.

Heat and Mass Transfer in Capillary-Porous Bodies CRC Press

Heat and Mass Transfer in Capillary-Porous Bodies describes the modern theory of heat and mass transfer on the basis of the thermodynamics of irreversible processes. This book provides a systematic account of the phenomena of heat and mass transfer in capillary-porous bodies. Organized into 10 chapters, this book begins with an overview of the processes of the transfer of heat and mass of a substance. This text then examines the application of the theory to the investigation of heat and mass exchange in walls and in technological processes for the manufacture of building materials. Other chapters consider the thermal properties of building materials by using the methods of the thermodynamics of mass transfer. The final chapter deals with the method of finite differences, which is applicable to the solution of problems of non-steady heat conduction. This book is a valuable resource for scientists, post-graduate students, engineers, and students in higher educational establishments for architectural engineering.

Mass Transfer McGraw-Hill Companies

Heat and Mass Transfer is a comprehensive textbook for the students of Mechanical Engineering and a must-buy for the aspirants of different entrance examinations including GATE and UPSC. Divided into 5 parts, the book delves into the subject beginning from Basic Concepts and goes on to discuss Heat Transfer (by Convection and Radiation) and Mass Transfer. The book also becomes useful as a question bank for students as it offers university as well as entrance exam questions with solutions.

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