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Fundamentals Of Heat And Mass Transfer, 5Th Ed  
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Fluid Mechanics, Heat Transfer, and Mass Transfer  
Fundamentals of Heat and Mass Transfer  
Fundamentals of Momentum, Heat, and Mass Transfer  
Heat and Mass Transfer in Building Services Design  
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## **OCONNELL JAKOB**

Mass Transfer Springer  
Nature

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.

## **TRANSPORT PHENOMENA (2nd Ed.)**

PHI Learning Pvt. Ltd.  
A thorough introduction to the fundamentals and applications of microscopic and macroscopic mass transfer.

Fundamentals Of Heat  
And Mass Transfer, 5Th  
Ed CRC Press

This bestselling book in the field provides a complete introduction to the physical origins of heat and mass transfer. Noted for its crystal clear presentation and easy-to-follow problem solving methodology, Incropera and Dewitt's systematic approach to the first law develops reader confidence in using this essential tool for thermal analysis. Readers will learn the meaning of the terminology and physical principles of heat transfer as well as how to use requisite inputs for computing heat transfer rates and/or material temperatures.

**Mass Transfer  
Processes** Cambridge  
University Press  
Building design is increasingly geared towards low energy consumption.

Understanding the fundamentals of heat transfer and the behaviour of air and water

movements is more important than ever before. Heat and Mass Transfer in Building Services Design provides an essential underpinning knowledge for the technology subjects of space heating, water services, ventilation and air conditioning. This new text: \*provides core understanding of heat transfer and fluid flow from a building services perspective

\*complements a range of courses in building services engineering  
\*underpins and extends the themes of the author's previous books: Heating and Water Services Design in Buildings; Energy Management and Operational Costs in Buildings Heat and Mass Transfer in Building Services Design combines theory with practical application for building services professional and students. It will also be beneficial to technicians and undergraduate students on courses in construction and mechanical engineering.

**Mass-transfer  
Operations** S. Chand  
Publishing

"Mass Transfer is a derivative version of the mass transfer chapters contained in Heat and Mass Transfer, 1995. New

sections have been added dealing with transport in multicomponent systems and the conservation equations for multicomponent gas mixtures. Elementary Mass Transfer, High Mass Transfer Rate Theory, Mass Exchangers, Property Data." -- Publisher.

*Heat and Mass Transfer in Capillary-Porous Bodies*  
John Wiley & Sons

□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.

**Fluid Mechanics, Heat Transfer, and Mass Transfer** John Wiley & Sons

□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.

*Fundamentals of Heat and Mass Transfer* CRC Press

The All-in-One Guide to Mass Transport Phenomena: From Theory to Examples and Computation Mass transfer processes exist in practically all engineering fields and many biological systems; understanding them is essential for all chemical engineering students, and for practitioners in a broad range of practices, such as biomedical engineering, environmental engineering, material engineering, and the like. Mass Transfer Processes combines a modern, accessible introduction to modeling and computing these processes with demonstrations of their application in designing

reactors and separation systems. P. A. Ramachandran's integrated approach balances all the knowledge readers need to be effective, rather than merely paying lip service to some crucial topics. He covers both analytical and numerical solutions to mass transfer problems, demonstrating numerical problem-solving with widely used software packages, including MATLAB and CHEBFUN. Throughout, he links theory to realistic examples, both traditional and contemporary. Theory, examples, and in-depth coverage of differential, macroscopic, and mesoscopic modeling Physical chemistry aspects of diffusion phenomena Film models for calculating local mass transfer rates and diffusional interaction in gas-solid and gas-liquid reaction systems Application of mass transfer models in rate-based separation processes, and systems with simultaneous heat and mass transfer Convective mass transfer: empirical correlation, internal and external laminar flows, and turbulent flows Heterogeneous systems, from laminar flow

reactors, diffusion-reaction models, reactive membranes, and electrochemical reactors  
 Computations of mass transfer effects in multicomponent systems  
 Solid-gas noncatalytic reactions for chemical, metallurgical, environmental, and electronic processes  
 Applications in electrochemical and biomedical systems  
 Design calculations for humidification, drying, and condensation systems and membrane-based separations  
 Analysis of adsorption, chromatography, electro dialysis, and electrophoresis

**Fundamentals of Momentum, Heat, and Mass Transfer** S. Chand

Publishing

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.

**Heat and Mass Transfer in Building Services Design**

Routledge

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.

[Convective Heat & Mass Transfer W/ Engineering Subscription Card](#)

McGraw-Hill Science, Engineering & Mathematics

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.

*Mass Transfer and Absorbers* Springer Science & Business Media With Wiley's Enhanced E-Text, you get all the benefits of a downloadable, reflowable eBook with added resources to make your study time more effective. *Fundamentals of Heat and Mass Transfer* 8th Edition has been the gold standard of heat transfer pedagogy for many decades, with a commitment to continuous improvement by four authors' with more than 150 years of combined experience in heat transfer education, research and practice.

Applying the rigorous and systematic problem-solving methodology that this text pioneered an abundance of examples and problems reveal the richness and beauty of the discipline. This edition makes heat and mass transfer more approachable by giving additional emphasis to fundamental concepts, while highlighting the relevance of two of today's most critical issues: energy and the environment.

**Heat and Mass Transfer in Packed Beds** Elsevier

Published April 2004 The 4th edition *Convective Heat and Mass Transfer* continues the trend of encouraging the use of a numerically based, computational approach to solving convective heat and mass transfer problems, in addition to classical problem-solving approaches. This best-selling text also presents a strong theoretical basis for the subject of convective heat and mass transfer by focusing on boundary layer theory and provides optional coverage of the software teaching tool TEXSTAN.

*Heat transfer* John Wiley & Sons

This textbook is targeted 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** Pearson

Education India  
Fundamentals of Heat and Mass Transfer is written as a text book for senior undergraduates in engineering colleges of Indian universities, in the departments of Mechanical, Automobile, Production, Chemical, Nuclear and Aerospace Engineering. The book should also be useful as a reference book for practising engineers for whom thermal calculations and understanding of heat transfer are necessary, for example, in the areas of Thermal Engineering, Metallurgy, Refrigeration and Airconditioning,

Insulation etc.

### **A Textbook of Heat and Mass Transfer [Concise Edition]** Elsevier

The book is devoted to investigation of a series of problems of convective heat and mass transfer in rotating-disk systems. Such systems are widespread in scientific and engineering applications. As examples from the practical area, one can mention gas turbine and computer engineering, disk brakes of automobiles, rotating-disk air cleaners, systems of microclimate, extractors, dispensers of liquids, evaporators, circular saws, medical equipment, food process engineering, etc. Among the scientific applications, it is necessary to point out rotating-disk electrodes used for experimental determination of the diffusion coefficient in electrolytes. The system consisting of a fixed disk and a rotating cone that touches the disk by its vertex is widely used for measurement of the viscosity coefficient of liquids. For time being, large volume of experimental and computational data on parameters of fluid flow, heat and mass transfer in different types of rotating-disk systems have been

accumulated, and different theoretical approaches to their simulation have been developed. This obviously causes a need of systematization and generalization of these data in a book form.

### **Diffusion and Mass Transfer** Prentice Hall

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 Floatation 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.

**Diffusion** John Wiley & Sons

Mass Transfer complements the third edition of Heat Transfer by A.F. Mills and C.F.M. Coimbra (Temporal Publishing, 2016). It is a revised, updated and expanded version of the 2nd edition of Mass Transfer by A.F. Mills (Prentice-Hall, 2001). This book is a suitable text for undergraduate or graduate-level courses on mass transfer for engineering.

*Nanofluids for Heat and Mass Transfer* Palgrave Macmillan

Market\_Desc: · Chemical, Mechanical, Nuclear, Industrial Engineers

Special Features: · Careful attention is paid to the presentation of the basic theory· Enhanced sections throughout text provide much firmer foundation than the first edition· Literature citations are given throughout for reference to additional

material About The Book: The long-awaited revision of a classic! This new edition presents a balanced introduction to transport phenomena, which is the foundation of its long-standing success. Topics include mass transport, momentum transport and energy transport, which are presented at three different scales: molecular, microscopic and macroscopic.

*Fundamentals of Heat and Mass Transfer* Prentice Hall

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.

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