Principles Of Heat Transfer And Mass Transfer

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Heat and Mass Transfer - Yunus A. Çengel 2011
With complete coverage of the basic principles of heat transfer and a broad range of applications in a flexible format, 'Heat and Mass Transfer' provides a blend of fundamental concepts and practical applications.
Principles of Heat and Mass Transfer - Frank P. Incropera 2013
Completely updated, the seventh edition provides engineers with an in-depth look at the key concepts in the field. It incorporates new discussions on emerging areas of heat transfer, discussing technologies that are related to nanotechnology, biomedical engineering and alternative energy.
Basic Heat and Mass Transfer - Anthony F. Mills 1999
Heat Transfer has been written for undergraduate students in mechanical, nuclear, and chemical engineering programs. The success of Anthony Mill's Basic Heat and Mass Transfer and Heat Transfer continues with two new editions for 1999. The careful ordering of topics in each chapter leads students gradually from introductory concepts to advanced material, eliminating road blocks to developing solid engineering problem-solving skills. Mathematical concepts, from earlier courses, are reviewed on as needed basis refreshing students' memories, and the computational software integrated with the text allows them to obtain reliable numerical results. The integrated coverage of design principles and the wide variety of exercises based on current heat and mass transfer technologies encourages students to think like engineers, better preparing them for the engineering workplace.
Fundamental Principles of Heat Transfer - Stephen Whitaker 2013-10-22
Fundamental Principles of Heat Transfer introduces the fundamental concepts of heat transfer: conduction, convection, and radiation. It presents theoretical developments and example and design problems and illustrates the practical applications of fundamental principles. The chapters in this book cover various topics such as one-dimensional and transient heat conduction, energy and turbulent transport, forced convection, thermal radiation, and radiant energy exchange. There are example problems and solutions at the end of every chapter dealing with design problems. This book is a valuable introductory course in heat transfer for engineering students.
Principles of Heat and Mass Transfer - Annika Brayan 2019-06-24
Heat transfer is a sub-field of thermal engineering, which deals with the generation, conversion, use and exchange of thermal energy between physical systems. The fundamental mechanisms of heat transfer are conduction, convection, advection and radiation. It is crucial for phase transition in a thermodynamic system from one state of matter to the other. Heat transfer has wide applications in insulation, thermal management of electronic devices and systems, materials processing, etc. Mass transfer refers to the net movement of mass from one location to another. It may occur due to the processes of precipitation, absorption, evaporation, distillation, etc. Mass transfer is used widely in separations engineering, reaction engineering, heat transfer engineering, etc. This book is a valuable compilation of topics, ranging from the basic to the most complex theories and principles in the field of heat and mass transfer. Different approaches, evaluations, methodologies and studies have been included in this book. It aims to serve as a resource guide for students and experts alike and contribute to the growth of the discipline.
Fundamentals of Heat and Mass Transfer - Frank P. Incropera 1990-03-06
An updated and refined edition of one of the standard works on heat transfer. The Third Edition offers better development of the physical principles underlying heat transfer, improved treatment of numerical methods and heat transfer with phase change as well as consideration of a broader range of technically important problems. The scope of applications has been expanded and there are nearly 300 new problems.
Principles of Gas-Solid Flows - Liang-Shih Fan 2005-10-13
Gas-solid flows are involved in numerous industrial processes and occur in various natural phenomena. This authoritative book addresses the fundamental principles that govern gas-solid flows and the application of these principles to various gas-solid flow systems. The book is arranged in two parts: Part I deals with basic relationships and phenomena, including particle size and properties, collision mechanics, momentum transfer, heat and mass transfer, basic equations, and intrinsic phenomena in gas-solid flows. Part II discusses gas-solid flow systems of industrial interest such as gas-solid separators, hoppers and standpipes, dense-phase fluidized beds, fluidized beds, pneumatic conveying systems, and heat and mass transfer in fluidization systems. As a comprehensive text on gas-solid flows, which includes end-of-chapter problems, this book is aimed at students, but will also be useful to a broad range of engineers and applied scientists. Solutions manual available.
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 and Mass 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. Key: Text covers the standard topics of heat transfer with an emphasis on physics and real-world every day applications, while de-emphasizing the intimidating heavy mathematical aspects. This approach is designed to take advantage of students' intuition, making the learning process easier and more engaging. Key: The new edition will add helpful web-links for students. Key: 50% of the Homework Problems including design, computer, essay, lab-type, and FE problems are new or revised to this edition. 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.
Heat Transfer - Yunus A. Cengel 2002-10
CD-ROM contains: the limited academic version of Engineering equation solver(EES) with homework problems.
Fundamentals of Momentum, Heat, and Mass Transfer - James Welty 2020-06-23
The field's essential standard for more than three decades, Fundamentals of Momentum, Heat and Mass Transfer offers a systematic introduction to transport phenomena and rate processes. Thorough coverage of central principles helps students build a foundational knowledge base while developing vital analysis and problem solving skills. Momentum, heat, and mass transfer are introduced sequentially for clarity of concept and logical organization of processes, while examples of modern applications illustrate real-world practices and strengthen student comprehension. Designed to keep the focus on concept over content, this text uses accessible language and efficient pedagogy to streamline student mastery and facilitate further exploration. Abundant examples, practice problems, and illustrations reinforce basic principles, while extensive tables simplify comparisons of the various states of matter. Detailed coverage of topics including dimensional analysis, viscous flow, conduction, convection, and molecular diffusion provide broadly-relevant guidance for undergraduates at the sophomore or junior level, with special significance to students of chemical, mechanical, environmental, and biochemical engineering.
Fundamentals of Heat and Mass Transfer - C. P. Kothandaraman 2006
About the Book: Salient features: A number of Complex problems along with the solutions are provided Objective type questions for self-evaluation and better understanding of the subject Problems related to the practical aspects of the subject have been worked out Checking the authenticity of dimensional homogeneity in case of all derived equations Validation of numerical solutions by cross checking Plenty of graded exercise problems from simple to complex situations are included Variety of questions have been included for the clear grasping of the basic principles Redrawing of all the figures for more clarity and understanding Radiation shape factor charts and Heisler charts have also been included Essential tables are included The basic topics have been elaborately discussed Presented in a more better and fresher way Contents: An Overview of Heat Transfer Steady State Conduction Conduction with Heat Generation Heat Transfer with Extended Surfaces (FINS) Two Dimensional Steady Heat Conduction Transient Heat Conduction Convection Convective Heat Transfer Practical Correlation Flow Over Surfaces Forced Convection Natural Convection Phase Change Processes Boiling, Condensation, Freezing and Melting Heat Exchangers Thermal Radiation Mass Transfer
Heat Transfer Physics - Massoud Kaviany 2014-02-10
This graduate textbook describes atomic-level kinetics of thermal energy storage, transport, and transformation by principal energy carriers. The second edition includes applications in energy conversion, expanded examples of size effects, inclusion of junction quantum transport, and discussion of graphene and its phonon and electronic conductances. Numerous examples, illustrations, and homework problems with answers to enhance learning are included.
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: Principles and Applications presents a highly thoughtful and instructive introduction to this sophisticated material by teaching mass transfer and separation processes as unique though related entities. In an ever increasing effort to demystify the subject, with this edition, the author— Avoids more complex separation processes Places a greater emphasis on the art of simplifying assumptions Conveys a greater sense of scale with the inclusion of numerous photos of actual installations Makes the math only as complicated as necessary while reviewing fundamental principles that may have been forgotten The book explores essential principles and reinforces the concepts with classical and contemporary illustrations drawn from the engineering, environmental, and biological sciences. The theories of heat conduction and transfer are utilized not so much to draw analogies but rather to make fruitful use of existing solutions not seen in other texts on the subject. Both an introductory resource and a reference, this important text serves

environmental, biomedical, and engineering professionals, as well as anyone wishing to gain a grasp on this subject and its increasing relevance across a number of fields. It fills a void in traditional chemical engineering literature by providing access to the principles and working practices that allow mass transfer theory to be applied to separation processes.

Heat Transfer Principles and Applications - Charles H. Forsberg 2020-03

Heat Transfer Principles and Applications is a welcome change from more encyclopedic volumes exploring heat transfer. This shorter text fully explains the fundamentals of heat transfer, including heat conduction, convection, radiation and heat exchangers. The fundamentals are then applied to a variety of engineering examples, including topics of special and current interest like solar collectors, cooling of electronic equipment, and energy conservation in buildings. The text covers both analytical and numerical solutions to heat transfer problems and makes considerable use of Excel and MATLAB(R) in the solutions. Each chapter has several example problems and a large, but not overwhelming, number of end-of-chapter problems.

Principles of Heat Transfer - Frank Kreith 1986

Frank Kreith and Mark Bohn's PRINCIPLES OF HEAT TRANSFER is known and respected as a classic in the field! The sixth edition has new homework problems, and the authors have added new Mathcad problems that show readers how to use computational software to solve heat transfer problems. This new edition features own web site that features real heat transfer problems from industry, as well as actual case studies.

An Introduction to Heat Transfer Principles and Calculations - A. J. Ede 2013-10-22

An Introduction to Heat Transfer Principles and Calculations is an introductory text to the principles and calculations of heat transfer. The theory underlying heat transfer is described, and the principal results and formulae are presented. Available techniques for obtaining rapid, approximate solutions to complicated problems are also considered. This book is comprised of 12 chapters and begins with a brief account of some of the concepts, methods, nomenclature, and other relevant information about heat transfer. The reader is then introduced to radiation, conduction, convection, and boiling and condensation. Problems involving more than one mode of heat transfer are presented. Some of the factors influencing the selection of heat exchangers are also discussed. The remaining chapters focus on mass transfer and its simultaneous occurrence with heat transfer; the air-water vapor system, with emphasis on humidity and enthalpy as well as wet-bulb temperature, adiabatic saturation temperature, cooling by evaporation, drying, and condensation; and physical properties and other information that must be taken into account before any generalized formula for heat or mass transfer can be applied to a specific problem. This monograph will be of value to mechanical engineers, physicists, and mathematicians.

Fundamentals of Heat and Mass Transfer - Theodore L. Bergman 2012-02-01

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.

Heat and Mass Transfer - Hans Dieter Baehr 2013-04-17

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.

Advances in Industrial Heat Transfer - Alina Adriana Minea 2012-10-02

Advances in Industrial Heat Transfer presents the basic principles of industrial heat transfer enhancement. Serving as a reference and guide for future research, this book presents a complete approach, from redesigning equipment to the use of nanofluids in industry.Based on the latest methods of the experiment and their interpretation, this book pr

Heat and Mass Transfer - Hans Dieter Baehr 2006-08-02

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.

Heat and Mass Transfer for Chemical Engineers: Principles and Applications - Giorgio Carta 2021-08-06

Learn and apply heat and mass transfer principles to real-world chemical engineering problems This hands-on textbook provides a concept-based introduction to heat and mass transfer procedures and lays out the foundation to practical applications in a broad range of fields relevant to chemical and biochemical processing. Written by a recognized academic and experienced author, Heat and Mass Transfer for Chemical Engineers: Principles and Applications contains comprehensive discussions on conductive and diffusive processes and the engineering correlations between momentum, heat, and mass transfer. Readers will get Mathematica workbooks that facilitate calculations and explore trends. The book refers extensively to Perry's Chemical Engineers' Handbook, Ninth Edition for data and correlations. Coverage includes: Introduction to heat and mass transfer Thermal conductivity Steady-state, one-dimensional heat conduction Combined conductive and convective heat transfer Multidimensional and transient heat conduction Convective heat transfer Thermal design of heat exchangers Fick's law and diffusivity One-dimensional, multi-dimensional, and transient diffusion Convective mass transfer Design of packed gas absorption and stripping columns Multicomponent diffusion and coupled mass transfer processes Mass transfer with chemical reaction

Mass Transfer - A. P. SINHA 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.

Principles of Heat Transfer - Massoud Kaviany 2002

CD-ROM contains: Equations and relations (models) for thermal circuit modeling.

Principles of Convective Heat Transfer - Massoud Kaviany 2013-11-21

This concise and unified text reviews recent contributions to the principles of convective heat transfer for single and multi-phase systems. This valuable new edition has been updated throughout and contains new examples and problems.

Fundamentals of Heat and Mass Transfer - T. L Bergman 2011-04-12

Completely updated, the seventh edition provides engineers with an in-depth look at the key concepts in the field. It incorporates new discussions on emerging areas of heat transfer, discussing technologies that are related to nanotechnology, biomedical engineering and alternative energy. The example problems are also updated to better show how to apply the material. And as engineers follow the rigorous and systematic problem-solving methodology, they'll gain an appreciation for the richness and beauty of the discipline.

A HEAT TRANSFER TEXTBOOK - John H. Lienhard 2004

Heat And Mass Transfer, 6th Edition, Si Units - Yunus A. ? engel 2020-09-16

"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"--

HEAT TRANSFER - DUTTA, BINAY K. 2000-01-01

This textbook is intended for courses in heat transfer for undergraduates, not only in chemical engineering and related disciplines of biochemical engineering and chemical technology, but also in mechanical engineering and production engineering. The author provides the reader with a very thorough account of the fundamental principles and their applications to engineering practice, including a survey of the recent developments in heat transfer equipment.The three basic modes of heat transfer - conduction, convection and radiation - have been comprehensively analyzed and elucidated by solving a wide range of practical and design-oriented problems. A whole chapter has been devoted to explain the concept of the heat transfer coefficient to give a feel of its importance in tackling problems of convective heat transfer. The use of the important heat transfer correlations has been illustrated with carefully selected examples.

Heat and Mass Transfer: - Rudramurthy and Mayilswamy

Heat and Mass Transfer is designed for the core paper on Heat and Mass Transfer for the undergraduate students of mechanical engineering, and offers theory in brief, detailed derivations, plenty of examples and numerous exercise problems. This unique approach helps students apply principles to applications.

Principles of Heat Transfer and Mass Transfer (2nd Edition) - Dawande Shrikant D. 2009-01-01

Contents: 1. Steady Heat Conduction, 2. Steady State Heat Conduction with Heat Generation, 3. Thermal Insulation, 4. Extended Surfaces, 5. Unsteady State Heat Transfer, 6. Fluid Flow Over Plate & Heat Transfer, 7. Convection Heat Transfer, 8. Condensation and Boiling, 9. Heat Exchangers, 10. Evaporators, 11. Heat Exchange Equipments, 12. Radiation Heat Transfer, 13. Diffusional Mass Transfer.

Heat Transfer Principles and Applications - Charles H. Forsberg 2020-03-20

Heat Transfer Principles and Applications is a welcome change from more encyclopedic volumes exploring heat transfer. This shorter text fully explains the fundamentals of heat transfer, including heat conduction, convection, radiation and heat exchangers. The fundamentals are then applied to a variety of engineering examples, including topics of special and current interest like solar collectors, cooling of electronic equipment, and energy conservation in buildings. The text covers both analytical and numerical solutions to heat transfer problems and makes considerable use of Excel and MATLAB® in the solutions. Each chapter has several example problems and a large, but not

overwhelming, number of end-of-chapter problems. A medium-sized text providing a thorough treatment of heat transfer fundamentals Includes both analytical and numerical solutions of heat transfer problems Extensive use of Excel and Matlab Includes a chapter on mass transfer Includes a unique chapter of multimode problems to enhance the students problem-solving skills. Minimal information is given in the problem statements. Students must determine the relevant modes of heat transfer (conduction, convection, radiation) and, using the earlier chapters, must determine the appropriate solution technique. For example, they must decide whether the problem is steady-state or transient. They must determine the applicable convection coefficients and material properties. They must decide which solution approach (e. g., analytical or numerical) is appropriate

INTRODUCTION TO HEAT TRANSFER - S. K. SOM 2008-10-24

This book presents a comprehensive treatment of the essential fundamentals of the topics that should be taught as the first-level course in Heat Transfer to the students of engineering disciplines. The book is designed to stimulate student learning through clear, concise language. The theoretical content is well balanced with the problem-solving methodology necessary for developing an orderly approach to solving a variety of engineering problems. The book provides adequate mathematical rigour to help students achieve a sound understanding of the physical processes involved. Key Features : A well-balanced coverage between analytical treatments, physical concepts and practical demonstrations. Analytical descriptions of theories pertaining to different modes of heat transfer by the application of conservation equations to control volume and also by the application of conservation equations in differential form like continuity equation, Navier–Stokes equations and energy equation. A short description of convective heat transfer based on physical understanding and practical applications without going into mathematical analyses (Chapter 5). A comprehensive description of the principles of convective heat transfer based on mathematical foundation of fluid mechanics with generalized analytical treatments (Chapters 6, 7 and 8). A separate chapter describing the basic mechanisms and principles of mass transfer showing the development of mathematical formulations and finding the solution of simple mass transfer problems. A summary at the end of each chapter to highlight key terminologies and concepts and important formulae developed in that chapter. A number of worked-out examples throughout the text, review questions, and exercise problems (with answers) at the end of each chapter. This book is appropriate for a one-semester course in Heat Transfer for undergraduate engineering students pursuing careers in mechanical, metallurgical, aerospace and chemical disciplines.

An Introduction to Mass and Heat Transfer - Stanley Middleman 1997-10-30

This highly recommended book on transport phenomena shows readers how to develop mathematical representations (models) of physical phenomena. The key elements in model development involve assumptions about the physics, the application of basic physical principles, the exploration of the implications of the resulting model, and the evaluation of the degree to which the model mimics reality. This book also expose readers to the wide range of technologies where their skills may be applied.

PRINCIPLES OF MASS TRANSFER AND SEPERATION PROCESSES - BINAY K. DUTTA 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 indus-try, 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.

Principles of Enhanced Heat Transfer - Ralph L. Webb 1994-03-28

Indeed, today "second generation" enhancement concepts are routing in the automotive and refrigeration industries to obtain lower cost, smaller heat exchanger size, and higher energy efficiency in system operation. And the aerospace, process, and power generation industries are not far behind.

- G. S. Sawhney 2013-12-30

Written with the third-year engineering students of undergraduate level in mind, this well set out textbook explains the fundamentals of Heat and Mass Transfer. Written in question-answer form, the book is precise and easy to understand. The book presents an exhaustive coverage of the theory, definitions, formulae and examples which are well supported by plenty of diagrams and problems in order to make the underlying principles more comprehensive. In the present second edition, the book has been thoroughly revised and enlarged. The chapter on steady state one-dimensional heat conduction has been modified to include problems on two-dimensional heat conduction. Finite heat difference method of solving such problems has been covered. Modification has also been included in the text as per the suggestions obtained from various sources. Additional typical problems based on the examination papers of various technical universities have been included with solutions for easy understanding by the students.

Principles of Heat Transfer in Porous Media - M. Kaviany 2012-12-06

Although the empirical treatment of fluid flow and heat transfer in porous media is over a century old, only in the last three decades has the transport in these heterogeneous systems been addressed in detail. So far, single-phase flows in porous media have been treated or at least formulated satisfactorily, while the subject of two-phase flow and the related heat-transfer in porous media is still in its infancy. This book identifies the principles of transport in porous media and compares the avalaible predictions based on theoretical treatments of various transport mechanisms with the existing experimental results. The theoretical treatment is based on the volume-averaging of the momentum and energy equations with the closure conditions necessary for obtaining solutions. While emphasizing a basic understanding of heat transfer in porous media, this book does not ignore the need for predictive tools; whenever a rigorous theoretical treatment of a phenomena is not avaliable, semi-empirical and empirical treatments are given.

Principles of Heat Transfer - Frank Kreith 1965

Incropera's Principles of Heat and Mass Transfer - Theodore L. Bergman 2017-08-18

The presentation is built around four central learning objectives: The reader should internalize the meaning of the terminology and physical principles associated with heat transfer The reader should be able to delineate pertinent transport phenomena for any process or system involving heat transfer The reader should be able to use requisite inputs for computing heat transfer rates and/or material temperatures The reader should be able to develop representative models of real processes and systems and draw conclusions concerning process/system design or performance from the attendant analysis Teaches students the rigorour and systematic problem-solving methodology developed and honed by the authors A wealth of example problems show how to apply the material across various engineering disciplines and fields Identifies problems that are uniquely suited for solving with a computational software tool, both to increase efficiency and to decrease errors

Advanced Heat and Mass Transfer - Amir Faghri 2010

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