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Heat and Mass Transfer
Nanofluids for Heat and Mass Transfer
Heat and Mass Transfer
Heat Transfer
Fundamentals, Sustainable Manufacturing and Applications
Heat And Mass Transfer , Second Edition
FUNDAMENTALS OF HEAT AND MASS TRANSFER
Fundamentals of Momentum, Heat, and Mass Transfer
Fundamentals of Heat and Mass Transfer 5th Edition with IHT2.0/FEHT with Users Guides
Fundamentals of Heat and Mass Transfer
A Practical Approach
Fundamentals of Heat and Mass Transfer
Fundamentals of Heat and Mass Transfer
With Introduction to Mass and Heat Transfer
Fundamentals of Heat Transfer
Problem Supplement and Software to Accompany Fundamentals of Heat and Mass Transfer, 4th Edition & Introduction to Heat Transfer, 3rd Edition
Heat and Mass Transfer in Particulate Suspensions
Heat and Mass Transfer
Fundamentals of Heat and Mass Transfer
Fundamentals of Convective Heat Transfer
Fundamentals of Heat and Mass Transfer
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Fundamentals of Momentum, Heat and Mass Transfer
Momentum, Heat, and Mass Transfer Fundamentals
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Conjugate Heat and Mass Transfer in Heat Mass Exchanger Ducts
Fundamentals of Heat and Mass Transfer
A HEAT TRANSFER TEXTBOOK
Fundamentals of Heat and Mass Transfer
Introduction to Heat Transfer and Interactive Heat Transfer V1.5
Fundamentals Of Momentum, Heat, And Mass Transfer, 5Th Ed
Heat and Mass Transfer: Fundamentals and Applications
Fundamentals Of Heat And Mass Transfer, 5Th Ed
Fundamentals of Momentum, Heat, and Mass Transfer
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CARLO LOGAN

Heat and Mass Transfer Springer Science & Business Media
"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"--
McGraw-Hill Science, Engineering & Mathematics
The First edition of HEAT AND MASS TRANSFER has been published to serve undergraduate students concerning with this extremely important domain of engineering science. The book is written to gradually build up the concepts and inculcate mathematical abilities in students to solve real life problems in Heat and Mass Transfer analysis. Book has been designed to make it student friendly, interesting and engaging with special focus to provide a meaningful, correct and lucid explanation of the underlying concepts. Features: -Building up stepwise concepts with proper interlinking and apt illustrations. -Exhaustive and In-depth coverage of subject. -Plethora of Solved Examples, Multiple Choice Questions and Review Questions. -Coverage of Competitive and University Exam questions. Table of Contents: Chapter 1) Introduction to Heat Transfer Chapter 2) Fundamentals of Conduction and Governing Equations Chapter 3) Unsteady State Conduction Chapter 4) Numerical Approach for Solving Heat Conduction Problems Chapter 5) Heat Transfer from Extended Surfaces Chapter 6) Fundamentals of Convection Chapter 7) Heat Transfer by Forced Convection Chapter 8) Heat Transfer by Free Convection Chapter 9) Boiling and Condensation Chapter 10) Heat Exchangers Chapter 11) Mass Transfer Chapter 12) Thermal Radiations: Process and Properties Chapter 13) Radiation Heat Exchange Between Surfaces
Nanofluids for Heat and Mass Transfer CRC Press
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.
Heat and Mass Transfer John Wiley & Sons
Fundamentals of Momentum, Heat and Mass Transfer, Revised, 6th Edition provides a unified treatment of momentum transfer (fluid mechanics), heat transfer and mass transfer. The new edition has been updated to include more modern examples, problems, and illustrations with real world applications. The treatment of the three areas of

transport phenomena is done sequentially. The subjects of momentum, heat, and mass transfer are introduced, in that order, and appropriate analysis tools are developed.

Heat Transfer John Wiley & Sons
Heat and Mass Transfer in Particulate Suspensions is a critical review of the subject of heat and mass transfer related to particulate Suspensions, which include both fluid-particles and fluid-droplet Suspensions. Fundamentals, recent advances and industrial applications are examined. The subject of particulate heat and mass transfer is currently driven by two significant applications: energy transformations –primarily combustion – and heat transfer equipment. The first includes particle and droplet combustion processes in engineering Suspensions as diverse as the Fluidized Bed Reactors (FBR's) and Internal Combustion Engines (ICE's). On the heat transfer side, cooling with nanofluids, which include nanoparticles, has attracted a great deal of attention in the last decade both from the fundamental and the applied side and has produced several scientific publications. A monograph that combines the fundamentals of heat transfer with particulates as well as the modern applications of the subject would be welcomed by both academia and industry.

Fundamentals, Sustainable Manufacturing and Applications I. K. International Pvt Ltd
This title provides a complete introduction to the physical origins of heat and mass transfer while using problem solving methodology. The systematic approach aims to develop readers confidence in using this tool for thermal analysis.

Heat And Mass Transfer , Second Edition John Wiley & Sons
CD-ROM contains: the limited academic version of Engineering equation solver(EES) with homework problems.

FUNDAMENTALS OF HEAT AND MASS TRANSFER Pearson Education India
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.

Fundamentals of Momentum, Heat, and Mass Transfer John Wiley & Sons Incorporated
"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.

Fundamentals of Heat and Mass Transfer 5th Edition with IHT2.0/FEHT with Users Guides Global Digital Press
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.

Fundamentals of Heat and Mass Transfer Fundamentals of Heat and Mass Transfer 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.

A Practical Approach Elsevier

"Presents the fundamentals of momentum, heat, and mass transfer from both a microscopic and a macroscopic perspective. Features a large number of idealized and real-world examples that we worked out in detail."

Fundamentals of Heat and Mass Transfer Pearson Education India

This best-selling 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 develop readers confidence in using this essential tool for thermal analysis.· Introduction to Conduction· One-Dimensional, Steady-State Conduction· Two-Dimensional, Steady-State Conduction· Transient Conduction· Introduction to Convection· External Flow· Internal Flow· Free Convection· Boiling and Condensation· Heat Exchangers· Radiation: Processes and Properties· Radiation Exchange Between Surfaces· Diffusion Mass Transfer

Fundamentals of Heat and Mass Transfer Academic Press

This text provides a complete coverage of the basic principles of heat transfer and a broad range of applications. Heat and Mass Transfer: Fundamentals and Applications by Yunus Çengel and Afshin Ghajar provide 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. This text covers the standard topics of heat transfer with an emphasis on physics and real-world every day applications, while de-emphasizing the intimidating mathematical aspects. This approach is designed to take advantage of students' intuition, making the learning process easier and more engaging. This text includes: * More than

1,000 illustrations with a sensational visual appeal that highlight its key learning features. * Approximately 2,000 homework problems in design, computer, essay, and laboratory-type problems.

With Introduction to Mass and Heat Transfer John Wiley & Sons

This book provides a complete introduction to the physical origins of heat and mass transfer. Contains hundred of problems and examples dealing with real engineering processes and systems. New open-ended problems add to the increased emphasis on design. Plus, Incropera & DeWitts systematic approach to the first law develops readers confidence in using this essential tool for thermal analysis.

Fundamentals of Heat Transfer John Wiley & Sons Incorporated

Nanofluids for Heat and Mass Transfer: Fundamentals, Sustainable Manufacturing and Applications presents the latest on the performance of nanofluids in heat transfer systems. Dr. Bharat Bhanvase investigates characterization techniques and the various properties of nanofluids to analyze their efficiency and abilities in a variety of settings. The book moves through a presentation of the fundamentals of synthesis and nanofluid characterization to various properties and applications. Aimed at academics and researchers focused on heat transfer in energy and engineering disciplines, this book considers sustainable manufacturing processes within newer energy harvesting technologies to serve as an authoritative and well-rounded reference. Highlights the major elements of nanofluids as an energy harvesting fluid, including their preparation methods, characterization techniques, properties and applications Includes valuable findings and insights from numerical and computational studies Provides nanofluid researchers with research inspiration to discover new applications and further develop technologies

Problem Supplement and Software to Accompany Fundamentals of Heat and Mass Transfer, 4th Edition & Introduction to Heat Transfer, 3rd Edition PHI Learning Pvt. Ltd.

Noted for its crystal clear presentation and easy-to-follow problem solving methodology, this bestselling book in the field provides a complete introduction to the physical origins of heat and mass transfer. Contains hundred of problems and examples dealing with real engineering processes and systems. New open-ended problems add to the increased emphasis on design. Plus, Incropera & DeWitts systematic approach to the first law develops readers confidence in using this essential tool for thermal analysis. New updated edition. A significant number of open-ended problems which the author believes will enhance student interest in heat transfer, have been added. DLC: Heat - Transmission.

Heat and Mass Transfer in Particulate Suspensions CRC Press

Fundamentals of Heat and Mass Transfer is an introductory text elaborating the interface between Heat Transfer and subjects like Thermodynamics or Fluid Mechanics presenting the scientific basis of the equations and their physical explanations in a lucid way. The basic theories such as the Boundary Layer Theory and theories related to bubble growth during phase change have been explained in detail. In two-phase heat transfer, the deviations from standard theories such as the Nusselt s theory of condensation have been discussed. In

the chapter on heat exchangers detailed classification, selection, analysis and design procedures have been enumerated while two chapters on numerical simulation have also been included.

Heat and Mass Transfer CRC Press Conjugate Heat and Mass Transfer in Heat Mass Exchanger Ducts bridges the gap between fundamentals and recent discoveries, making it a valuable tool for anyone looking to expand their knowledge of heat exchangers. The first book on the market to cover conjugate heat and mass transfer in heat exchangers, author Li-Zhi Zhang goes beyond the basics to cover recent advancements in equipment for energy use and environmental control (such as heat and moisture recovery ventilators, hollow fiber membrane modules for humidification/dehumidification, membrane modules for air purification, desiccant wheels for air dehumidification and energy recovery, and honeycomb desiccant beds for heat and moisture control). Explaining the data behind and the applications of conjugated heat and mass transfer allows for the design, analysis, and optimization of heat and mass exchangers. Combining this recently discovered data into one source makes it an invaluable reference for professionals, academics, and other interested parties. A research-based approach emphasizing numerical methods in heat mass transfer Introduces basic data for exchangers' design (such as friction factors and the Nusselt/Sherwood numbers), methods to solve conjugated problems, the modeling of various heat and mass exchangers, and more The first book to include recently discovered advancements of mass transfer and fluid flow in channels comprised of new materials Includes illustrations to visually depict the book's key concepts

Fundamentals of Heat and Mass Transfer Wiley

"Presents the fundamentals of momentum, heat, and mass transfer from both a microscopic and a macroscopic perspective. Features a large number of idealized and real-world examples that we worked out in detail."