

Fundamentals Of Engineering Heat M Transfer By R C Sachdeva

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An introduction to the engineering profession and ... surface generation, heat transfer, tool life and dynamics. Focuses on practical aspects of design and manufacturing. Covers fundamentals of ...

This text is meant to fill a long felt need for a comprehensive and authoritative book on heat and mass transfer for students of Mechanical/Chemical/Aeronautical/Production/ Metallurgical engineering. The dual objective of understanding the physical phenomena involved and the ability to formulate and solve typical problems by an average student has been kept in mind while writing this book. In this text, an effort has been made to identify the similarities in both qualitative and quantitative approach, between heat transfer and mass transfer. This gives a better understanding of the phenomena of mass transfer. The subject matter has been developed to a sufficiently advanced stage in a logical and coherent manner with neat illustrations along with an adequate number of solved examples. A large number of problems (with answers) at the end of each chapter assist in the pedagogy. The book has been appended with a set of selected MCQs. The role of experimentation in the teaching of Heat and Mass Transfer is well established. Properly designed experiments reinforce the teaching of basic principles more thoroughly. Keeping this in mind one full chapter comprising 12 typical experiments forms another special feature of this text. Contents: Basic Concepts Fundamental Equations of Conduction One-Dimensional Steady State Heat Conduction Multi-Dimensional Steady State Conduction Transient Heat Conduction Fundamentals of Convective Heat Transfer Forced Convection Systems Natural Convection Thermal Radiation - Basic Relations Radiative Heat Exchange Between Surfaces Boiling and Condensation Heat Exchangers Diffusion Mass Transfer Convective Mass Transfer Experiments in Engineering Heat and Mass Transfer.

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.

This book introduces the fundamental concepts of inverse heat transfer problems. It presents in detail the basic steps of four techniques of inverse heat transfer protocol, as a parameter estimation approach and as a function estimation approach. These techniques are then applied to the solution of the problems of practical engineering interest involving conduction, convection, and radiation. The text also introduces a formulation based on generalized coordinates for the solution of inverse heat conduction problems in two-dimensional regions.

Intended as a textbook for undergraduate courses in heat transfer for students of mechanical, chemical, aeronautical, and metallurgical engineering, or as a reference for professionals in industry, this book emphasizes the clear understanding of theoretical concepts followed by practical applications. Treating each subject analytically and then numerically, it provides step-by-step solutions of numerical problems through the use of systematic procedures by a prescribed format. With more than a million users in industry, MATLAB is the most popular computing programming language among engineers. This Second Edition has been updated to include discussions on how to develop programs that solve heat transfer problems using MATLAB, which allows the student to rapidly develop programs that involve complex numerical and engineering heat transfer computations.

The long-awaited revision of the bestseller on heat conduction Heat Conduction, Third Edition is an update of the classic text on heat conduction, replacing some of the coverage of numerical methods with content on micro- and nanoscale heat transfer. With an emphasis on the mathematics and underlying physics, this new edition has considerable depth and analytical rigor, providing a systematic framework for each solution scheme with attention to boundary conditions and energy conservation. Chapter coverage includes: Heat conduction fundamentals Orthogonal functions, boundary value problems, and the Fourier Series The separation of variables in the rectangular coordinate system The separation of variables in the cylindrical coordinate system The separation of variables in the spherical coordinate system Solution of the heat equation for semi-infinite and infinite domains The use of Duhamel's theorem The use of Green's function for solution of heat conduction The use of the Laplace transform One-dimensional composite medium Moving heat source problems Phase-change problems Approximate analytic methods Integral-transform technique Heat conduction in anisotropic solids Introduction to microscale heat conduction In addition, new capstone examples are included in this edition and extensive problems, cases, and examples have been thoroughly updated. A solutions manual is also available. Heat Conduction is appropriate reading for students in mainstream courses of conduction heat transfer, students in mechanical engineering, and engineers in research and design functions throughout industry.

Through analyses, experimental results, and worked-out numerical examples, Microscale and Nanoscale Heat Transfer: Fundamentals and Engineering Applications explores the methods and observations of thermophysical phenomena in size-affected domains. Compiling the most relevant findings from the literature, along with results from their own re

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Written for the upper level undergraduate, this updated book is also a solid reference for the graduate food engineering student and professional. This edition features the addition of sections on freezing, pumps, the use of chemical reaction kinetic data for thermal process optimization, and vacuum belt drying. New sections on accurate temperature measurements, microbiological inactivation curves, inactivation of microorganisms and enzymes, pasteurization, and entrainment are included, as are non-linear curve fitting and processes dependent on fluid film thickness. Other sections have been expanded.

This thorough study guide provides comprehensive review material and practice questions specific to chemical engineering. Two full-length practice tests are designed to prepare students for the FE: PM exam in chemical engineering. Detailed explanations to every question are included. Topics covered include heat transfer, chemical thermodynamics, and more.

Introduction to Thermal and Fluid Engineering combines coverage of basic thermodynamics, fluid mechanics, and heat transfer for a one- or two-term course for a variety of engineering majors. The book covers fundamental concepts, definitions, and models in the context of engineering examples and case studies. It carefully explains the methods used to evaluate changes in equilibrium, mass, energy, and other measurable properties, most notably temperature. It then also discusses techniques used to assess the effects of those changes on large, multi-component systems in areas ranging from mechanical, civil, and environmental engineering to electrical and computer technologies. Includes a motivational student study guide on CD to promote successful evaluation of energy systems This material helps readers optimize problem solving using practices to determine equilibrium limits and entropy, as well as track energy forms and rates of progress for processes in both closed and open thermodynamic systems. Presenting a variety of system examples, tables, and charts to reinforce understanding, the book includes coverage of: How automobile and aircraft engines work Construction of steam power plants and refrigeration systems Gas and vapor power processes and systems Application of fluid statics, buoyancy, and stability, and the flow of fluids in pipes and machinery Heat transfer and thermal control of electronic components Keeping sight of the difference between system synthesis and analysis, this book contains numerous design problems. It would be useful for an intensive course geared toward readers who know basic physics and mathematics through ordinary differential equations but might not concentrate on thermal/fluids science much further. Written by experts in diverse fields ranging from mechanical, chemical, and electrical engineering to applied mathematics, this book is based on the assertion that engineers from all walks absolutely must understand energy processes and be able to quantify them.

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