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Conduction of Heat in Solids Oxford University Press

This classic account describes the known exact solutions of problems of heat flow, with detailed discussion of all the most important boundary value problems.

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Conduction of Heat in Solids, By H.S. Carslaw and J.C. Jaeger

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Introduction to the Mathematical Theory of the Conduction of Heat in Solids

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The Conduction of Heat in Solids

CONDUCTION OF HEAT IN SOLIDS

CONDUCTION OF HEAT IN SOLIDS. 2ND ED.

Conduction of Heat from Solids to Fluids

Heat and Mass Transfer Springer Nature

This textbook presents the classical treatment of the problems of heat transfer in an exhaustive manner with due emphasis on understanding of the physics of the problems. This emphasis will be especially visible in the chapters on convective heat transfer. Emphasis is also laid on the solution of steady and unsteady two-dimensional heat conduction problems. Another special feature of the book is a chapter on introduction to design of heat exchangers and their illustrative design problems. A simple and understandable treatment of gaseous radiation has been presented. A special chapter on flat plate solar air heater has been incorporated that covers mathematical modeling of the air heater. The chapter on mass transfer has been written looking specifically at the needs of the students of mechanical engineering. The book includes a large number and variety of solved problems with supporting line diagrams. A number of application-based examples have been incorporated where applicable. The end-of-chapter exercise problems are supplemented with stepwise answers. Though the book has been primarily designed to serve as a complete textbook for undergraduate and graduate students of mechanical engineering, it will also be useful for students of chemical, aerospace, automobile, production, and industrial engineering streams. The book fully covers the topics of heat transfer coursework and can also be used as an excellent reference for students preparing for competitive graduate examinations.

Heat Conduction John Wiley & Sons

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.

The Conduction of Heat in Solids Having Temperature-dependent Properties

Transport Phenomena in Materials Processing Springer

This text provides a teachable and readable approach to transport phenomena (momentum, heat, and mass transport) by providing numerous examples and applications, which are particularly important to metallurgical, ceramic, and materials engineers. Because the authors feel that it is important for students and practicing engineers to visualize the physical situations, they have attempted to lead the reader through the development and solution of the relevant differential equations by applying the familiar principles of conservation to numerous situations and by including many worked examples in each chapter. The book is organized in a manner characteristic of other texts in transport phenomena. Section I deals with the properties and mechanics of fluid motion; Section II with thermal properties and heat transfer; and Section III with diffusion and mass transfer. The authors depart from tradition by building on a presumed understanding of the relationships between the structure and properties of matter, particularly in the chapters devoted to the transport properties (viscosity, thermal conductivity, and the diffusion coefficients). In addition, generous portions of the text, numerous examples, and many problems at the ends of the chapters apply transport phenomena to materials processing.

Conduction of Heat in Solids

By H. S. Sarlslaw and J. C. Jaeger

Introduction to the Mathematical Theory of the Conduction of Heat in Solids *Hardpress Publishing*

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SFPE Handbook of Fire Protection Engineering *National Fire Protection Association (NFPA)*

Conduction of Heat in Solids ... Second Edition

Parameter Estimation in Engineering and Science *James Beck*

Introduction to and survey of parameter estimation; Probability; Introduction to statistics; Parameter estimation methods; Introduction to linear estimation; Matrix analysis for linear parameter estimation; Minimization of sum of squares functions for models nonlinear in parameters; Design of optimal experiments.

Conduction Heat Transfer

This introduction to conduction heat transfer blends a description of the necessary mathematics with contemporary engineering applications. Examples include: heat transfer in manufacturing processes, the cooling of electronic equipment and heat transfer in various applications.

Differences of Conduction, Convection, and Radiation | Introduction to Heat Transfer Grade 6 | Children's Physics Books *Speedy Publishing LLC*

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A HEAT TRANSFER TEXTBOOK *Phlogiston Press*

Heat Transfer Principles and Applications *Academic Press*

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.

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Retardation and Diffraction Aspects of the Conduction of Heat in Solids

Heat Transfer in Structures

Introduction to the Mathetmatical Theory of the Conduction of Heat in Solids

Measurements, Mechanisms, and Models of Heat Transport *Elsevier*

Measurements, Mechanisms, and Models of Heat Transport offers an interdisciplinary approach to the dynamic response of matter to energy input. Using a combination of fundamental principles of physics, recent developments in measuring time-dependent heat conduction, and analytical mathematics, this timely reference summarizes the relative advantages of currently used methods, and remediates flaws in modern models and their historical precursors. Geophysicists, physical chemists, and engineers will find the book to be a valuable resource for its discussions of radiative transfer models and the kinetic theory of gas, amended to account for atomic collisions being inelastic. This book is a prelude to a companion volume on the thermal state, formation, and evolution of planets. Covering both microscopic and mesoscopic phenomena of heat transport, Measurements, Mechanisms, and Models of Heat Transport offers both the fundamental knowledge and up-to-date measurements and models to encourage further improvem Combines state-of-the-art measurements with core principles to lead to a better understanding of heat conduction and of radiative diffusion, and how these processes are linked Focuses on macroscopic models of heat transport and the underlying physical principles, providing the tools needed to solve many different problems in heat transport Connects thermodynamics with behavior of light in revising the kinetic theory of gas, which underlies all models of heat transport, and uses such links to re-derive formulae for blackbody emissions Explores all states of matter, with an

emphasis on crystalline and amorphous solids

Introduction to the Mathematical Theory of the Conduction of Heat in Solids

The Physics of Thermoelectric Energy Conversion *Morgan & Claypool Publishers*

This book outlines the principles of thermoelectric generation and refrigeration from the discovery of the Seebeck and Peltier effects in the nineteenth century through the introduction of semiconductor thermoelements in the mid-twentieth century to the more recent development of nanostructured materials. It is shown that the efficiency of a thermoelectric generator and the coefficient of performance of a thermoelectric refrigerator can be related to a quantity known as the figure of merit. The figure of merit depends on the Seebeck coefficient and the ratio of the electrical to thermal conductivity. It is shown that expressions for these parameters can be derived from the band theory of solids. The conditions for favourable electronic properties are discussed. The methods for selecting materials with a low lattice thermal conductivity are outlined and the ways in which the scattering of phonons can be enhanced are described. The application of these principles is demonstrated for specific materials including the bismuth telluride alloys, bismuth antimony, alloys based on lead telluride, silicon-germanium and materials described as phonon-glass electron-crystals. It is shown that there can be advantages in using the less familiar transverse thermoelectric effects and the transverse thermomagnetic effects. Finally, practical aspects of thermoelectric generation and refrigeration are discussed. The book is aimed at readers who do not have a specialised knowledge of solid state physics.

Introduction to the Mathematical Theory of the Conduction of Heat in Solids - Primary Source Edition *Nabu Press*

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Conduction of Heat and Electricity in Solids

Introduction to the Mathematical Theory of the Conduction of Heat in Solids (Classic Reprint) *Forgotten Books*

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Introduction to the Mathematical Theory of the Conduction of Heat in Solids *Alpha Edition*

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Basic Heat Transfer *Elsevier*

Basic Heat Transfer aims to help readers use a computer to solve heat transfer problems and to promote greater understanding by changing data values and observing the effects, which are necessary in design and optimization calculations. The book is concerned with applications including insulation and heating in buildings and pipes, temperature distributions in solids for steady state and transient conditions, the determination of surface heat transfer coefficients for convection in various situations, radiation heat transfer in grey body problems, the use of finned surfaces, and simple heat exchanger design calculations. The text also includes a review of the BASIC computing required and some mathematical programs to solve heat transfer problems. The book will be useful to mechanical engineers, students of engineering, and designers.

Introduction to the Mathematical Theory of the Conduction of Heat in Solids ... Second Edition, Completely Revised

Thermal Conductivity

Theory, Properties, and Applications *Springer Science & Business Media*

It has been almost thirty years since the publication of a book that is entirely dedicated to the theory, description, characterization and measurement of the thermal conductivity of solids. The recent discovery of new materials which possess more complex crystal structures and thus more complicated phonon scattering mechanisms have brought innovative challenges to the theory and experimental understanding of these new materials. With the development of new and novel solid materials and new measurement techniques, this book will serve as a current and extensive resource to the next generation researchers in the field of thermal conductivity. This book is a valuable resource for research groups and special

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Semi-discretized Treatment of the Equation of Conduction of Heat in Solids

One-dimensional Linear Flow of Heat