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Convective Heat and Mass Transfer, Second Edition, is ideal for the graduate level study of convection heat and mass transfer, with coverage of well-established theory and practice as well as trending topics, such as nanoscale heat transfer and CFD. It is appropriate for both Mechanical and Chemical Engineering courses/modules.

A modern and broad exposition emphasizing heat transfer by convection. This edition contains valuable new information primarily pertaining to flow and heat transfer in porous media and computational fluid dynamics as well as recent advances in turbulence modeling. Problems of a mixed theoretical and practical nature provide an opportunity to test mastery of the material.

Interest in studying the phenomena of convective heat and mass transfer between an ambient fluid and a body which is immersed in it stems both from fundamental considerations, such as the development of better insights into the nature of the underlying physical processes which take place, and from practical considerations, such as the fact that these idealised configurations serve as a launching pad for modelling the analogous transfer processes in more realistic physical systems. Such idealised geometries also provide a test ground for checking the validity of theoretical analyses. Consequently, an immense research effort has been expended in exploring and understanding the convective heat and mass transfer processes between a fluid and submerged objects of various shapes. Among several geometries which have received considerable attention are plates, circular and elliptical cylinders, and spheres, although much information is also available for some other bodies, such as corrugated surfaces or bodies of relatively complicated shapes. The book is a unified progress report which captures the spirit of the work in progress in boundary-layer heat transfer research and also identifies potential difficulties and areas for further study. In addition, this work provides new material on convective heat and mass transfer, as well as a fresh look at basic methods in heat transfer. Extensive references are included in order to stimulate further studies of the problems considered. A state-of-the-art picture of boundary-layer heat transfer today is presented by listing and commenting also upon the most recent successful efforts and identifying the needs for further research.

Illustrates Calculations Using Machine and Technological Processes The conjugate heat transfer (CHT) problem addresses the thermal interaction between a body and fluid flowing over or through it. This is an essential consideration in nature and different areas of engineering, including mechanics, aerospace, nuclear engineering, biology, and meteorology. Advanced conjugate modeling of the heat transfer process is now used extensively in a wide range of applications. Conjugate Problems in Convective Heat Transfer addresses the latest theory, methods, and applications associated with both analytical and numerical methods of solution CHT problems and their exact and approximate solutions. It demonstrates how the true value of a CHT solution is derived by applying these solutions to contemporary engineering design analysis. Assembling cutting-edge information on modern modeling from more than 200 publications, this book presents more than 100 example applications in thermal treatment materials, machinery operation, and technological processes. Creating a practical review of current CHT development, the author includes methods associated with estimating heat transfer, particularly that from arbitrary non-isothermal surfaces in both laminar and turbulent flows. Harnesses the Modeling Power of CHT Unique in its consistent compilation and application of current knowledge, this book presents advanced CHT analysis as a powerful tool for modeling various device operations and technological processes, from relatively simple procedures to complex multistage, nonlinear processes.

From the reviews: "The book has a broad and general coverage of both the mathematics and the numerical methods well suited for graduate students." Applied Mechanics Reviews #1 "This is a very well written book. The topics are developed with separate headings making the matter easily understandable. Computer programs are also included for many problems together with a separate chapter dealing with the application of computer programs to heat transfer problems. This enhances the utility of the book." Zentralblatt für Mathematik #1

This volume is concerned with the transport of thermal energy in flows of practical significance. The temperature distributions which result from convective heat transfer, in contrast to those associated with radiation heat transfer and conduction in solids, are related to velocity characteristics and we have included sufficient information of momentum transfer to make the book self-contained. This is readily achieved because of the close relation ship between the equations which represent conservation of momentum and energy: it is very desirable since convective heat transfer involves flows with large temperature differences, where the equations are coupled through an equation of state, as well as flows with small temperature differences where the energy equation is dependent on the momentum equation but the momentum equation is assumed independent of the energy equation. The equations which represent the conservation of scalar properties, including thermal energy, species concentration and particle number density can be identical in form and solutions obtained in terms of one dependent variable can represent those of another. Thus, although the discussion and arguments of this book are expressed in terms of heat transfer, they are relevant to problems of mass and particle transport. Care is required, however, in making use of these analogies since, for example, identical boundary conditions are not usually achieved in practice and mass transfer can involve more than one dependent variable.

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