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Heat Transfer: A Practical Approach Schaum's outline series in mechanical engineering Schaum's outline series: Author: Yunus A. Çengel: Edition: illustrated: Publisher: WBC McGraw-Hill, 1998: Original from: the University of California: Digitized: 23 Nov 2010: ISBN: 0070115052, 9780070115057: Length: 1006 pages : Export Citation: BiBTeX EndNote RefMan

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A practical approach is used in these chapters and the thermal resistance concept is emphasized. Extensive discussions are given on thermal insulations and the optimum thickness of insulation because of the widespread use of insulations in industry and the key role they play in any energy conservation project.

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Heat Transfer: A Practical Approach. Part 1 Fundamentals: basic concepts of thermodynamics and heat transfer heat conduction steady heat conduction transient heat conduction numerical methods in heat transfer forced convection natural convection boiling and condensation radiation heat transfer heat exchangers mass transfer.

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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.

CD-ROM contains: the limited academic version of Engineering equation solver(EES) with homework problems.

The book provides an easy way to understand the fundamentals of heat transfer. The reader will acquire the ability to design and analyze heat exchangers. Without extensive derivation of the fundamentals, the latest correlations for heat

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transfer coefficients and their application are discussed. The following topics are presented - Steady state and transient heat conduction - Free and forced convection - Finned surfaces - Condensation and boiling - Radiation - Heat exchanger design - Problem-solving After introducing the basic terminology, the reader is made familiar with the different mechanisms of heat transfer. Their practical application is demonstrated in examples, which are available in the Internet as MathCad files for further use. Tables of material properties and formulas for their use in programs are included in the appendix. This book will serve as a valuable resource for both students and engineers in the industry. The author's experience indicates that students, after 40 lectures and exercises of 45 minutes based on this textbook, have proved capable of designing independently complex heat exchangers such as for cooling of rocket propulsion chambers, condensers and evaporators for heat pumps.

With complete coverage of the basic principles of heat transfer along with a broad range of applications in a flexible format, Heat 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. 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.

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