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Introduction to Heat TransferHeat TransferPrinciples of Heat TransferElements of Heat TransferA Textbook on Heat TransferFundamental Principles of Heat TransferA Textbook of Heat and Mass Transfer [Concise Edition]Heat TransferPrinciples of Heat TransferPrinciples Of Heat TransferHeat TransferFundamentals of Heat TransferBasic Heat TransferIntroduction to Heat TransferHeat TransferHeat TransferHeat TransferHeat TransferBasic Heat TransferIndustrial Heat Transfer Theodore L. Bergman V. P. Isachenko Frank Kreith Ethirajan Rathakrishnan S.P. Sukhatme Stephen Whitaker RK Rajput Y.V. Rao Massoud Kaviany D. Srinivasan Frederick John Bayley Lindon C. Thomas Frank Kreith Frank P. Incropera Frank M. White Tariq Muneer Alan T. Morpew Jack Philip Holman M. Necati Özişik Alfred Schack

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completely updated the sixth 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

frank kreith and mark bohn s principles of heat transfer is known and respected as a classic in the field the sixth edition has new homework problems and the authors have added new mathcad problems that show readers how to use computational software to solve heat transfer problems this new edition features own web site that features real heat transfer problems from industry as well as actual case studies

written for chemical mechanical and aerospace engineering students taking courses on heat and mass transfer this textbook presents the basics and proceeds to the required theory and its application aspects major topics covered include conduction convection radiation boiling heat exchangers and mass transfer and are

explained in a detailed

this classic text deals with the elementary aspects of heat transfer with special emphasis on the fundamental laws so that the subject is perceived by the students as both a science and an art the text is supported by a large number of solved examples

fundamental principles of heat transfer introduces the fundamental concepts of heat transfer conduction convection and radiation it presents theoretical developments and example and design problems and illustrates the practical applications of fundamental principles the chapters in this book cover various topics such as one dimensional and transient heat conduction energy and turbulent transport forced convection thermal radiation and radiant energy exchange there are example problems and solutions at the end of every chapter dealing with design problems this book is a valuable introductory course in heat transfer for engineering students

a textbook of heat and mass transfer is a comprehensive textbook for the students of mechanical engineering and a must buy for the aspirants of different entrance examinations including gate and upsc divided into 4 parts the book delves into the subject beginning from basic concepts and goes on to discuss heat transfer by convection and radiation and mass transfer the book also becomes useful as a question bank for students as it offers university as well as entrance exam questions with solutions

heat transfer is a compulsory core course in the curriculum of almost all branches of engineering in several engineering and technical institutions and universities an outcome of the lecture notes prepared by the author this book has been prepared primarily for an introductory course in heat and mass transfer

cd rom contains equations and relations models for thermal circuit modeling

the presentation adopted in the preparation endeavors to convey to the student in a simple manner a physical understanding of the processes by which heat is transmitted and provide him or her with the tools necessary to get quantitative solutions to engineering problems involving one or more of the basic modes of heat flow sufficient material has been included in the text to cater to the requirements of the undergraduate curriculum illustrations pertaining to the different modes of heat transfer and the design calculations of heat exchangers have been liberally included in the text the purpose of this book is to present a basic introduction to the field of engineering heat transfer the book begins with a brief presentation of the importance of heat transfer in chemical and processing industry and the modes of heat transfer chapter 2 dealing with conduction includes a few aspects of conduction phenomenon analogy between heat flow and electricity flow critical thickness and conduction with internal generation of heat in chapter 3 the concept of film coefficients is presented and the relationship between the individual and overall heat transfer coefficients are dealt with the phenomenon of unsteady state heat transfer and the methods of solving one dimensional transient heat conduction problems have been discussed in chapter 4 which is on unsteady state heat conduction also the application of molecular transport theory to the unsteady state heat conduction is included in chapter 5 which is on convection a general basic concept the application of dimensional analysis in the case of forced

and free convection the heat transfer from fins the heat transfer to fluids in laminar flow inside tubes heat transfer from condensed vapours and boiling heat transfer are included the various types of heat exchangers the concept of capacity ratios the effectiveness of heat exchanger the log mean temperature difference the number of transfer units ntu and calculations pertaining to heat exchanger design and the effectiveness ntu relationship have been discussed in chapter 6 which bears the title industrial heat exchange equipment in chapter 7 which is on thermal energy transfer by radiation the basic concepts and theory of radiation are presented in chapter 8 which deals with evaporation the basic concepts and definitions boiling point elevation types of evaporators single and multiple effect evaporation the occurrence of heat transfer in evaporators and the analysis of performance calculations of multiple effect evaporators are discussed at some length chapter 9 the final chapter presents a brief review of heat transfer principles

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