

Fundamentals Of Heat And Mass Transfer 7th Edition

Bergman Lavine Incropera Dewitt

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this comprehensive text on the basics of heat and mass transfer provides a well balanced treatment of theory and mathematical and empirical methods used for solving a variety of engineering problems the book helps students develop an intuitive and practical understanding of the processes by emphasizing the underlying physical phenomena involved focusing on the requirement to clearly explain the essential fundamentals and impart the art of problem solving the text is written to meet the needs of undergraduate students in mechanical engineering production engineering industrial engineering auto mobile engineering aeronautical engineering chemical engineering and biotechnology

written with the third year engineering students of undergraduate level in mind this well set out textbook explains the fundamentals of heat and mass transfer written in question answer form the book is precise and easy to understand the book presents an exhaustive coverage of the theory definitions formulae and examples which are well supported by plenty of diagrams and problems in order to make the underlying principles more comprehensive in the present second edition the book has been thoroughly revised and enlarged the chapter on steady state one dimensional heat conduction has been modified to include problems on two dimensional heat conduction finite heat difference method of solving such problems has been covered modification has also been included in the text as per the suggestions obtained from various sources additional typical problems based on the examination papers of various technical universities have been included with solutions for easy understanding by the students

fundamentals of heat and mass transfer 7th edition is the gold standard of heat transfer pedagogy for more than 30 years with a commitment to continuous improvement by four authors having more than 150 years of combined experience in heat transfer education research and practice using a rigorous and systematic problem solving methodology pioneered by this text it is abundantly filled with examples and problems that reveal the richness and beauty of the discipline this edition maintains its foundation in the four central learning objectives for students and also makes heat and mass transfer more approachable with an additional emphasis on the fundamental concepts as well as highlighting the relevance of those ideas with exciting applications to the most critical issues of today and the coming decades energy and the environment an updated version of interactive heat transfer iht software makes it even easier to efficiently and accurately solve problems

heat and mass transfer is the core science for many industrial processes as well as technical and scientific devices automotive aerospace power generation both by conventional and renewable energies industrial equipment and rotating machinery materials and chemical processing and many other industries are requiring heat and mass transfer processes since the early studies in the seventeenth and eighteenth centuries there has been tremendous technical progress and scientific advances in the knowledge of heat and mass transfer where modeling and simulation developments are increasingly contributing to the current state of the art heat and mass transfer advances in science and technology applications aims at providing researchers and practitioners with a valuable compendium of significant advances in the field

this book provides a complete introduction to the physical origins of heat and mass transfer contains hundred of problems and examples dealing with real engineering processes and systems new open ended problems add to the increased emphasis on design plus incropera dewitts systematic approach to the first law develops readers confidence in using this essential tool for thermal analysis

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 5 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

in recent years the subject of mass transfer has been treated as a minor player in the larger field of transport phenomena and taken a back seat to its more mature brother heat transfer yet mass transfer is sufficiently mature as a discipline and sufficiently distinct from other transport processes to merit a separate treatment particularly one that does not overwhelm readers with an abundance of high level mathematics mass transfer principles and applications takes an integrated approach that uses a wealth of real world examples organizes the material according to mode of operation and highlights the importance of modeling the author begins by introducing diffusion rates fick s law film theory and mass transfer coefficients then develops these concepts in complementary stages the treatment of phase equilibria covers topics generally not addressed in thermodynamics courses and these concepts are then used to analyze compartmental models and staged processes as well as continuous contact operations the final chapter offers a concise survey of simultaneous mass and heat transfer throughout the book discussions transition smoothly between theory and practice and clearly reflect the author s many years of engineering experience and the breadth of mass transfer applications mass transfer principles and applications is a unique and accessible treatment of this relatively complicated topic that will fill a significant gap as both a textbook and professional reference

this text provides a complete coverage of the basic principles of heat transfer and a broad range of applications heat and mass transfer fundamentals and applications by yunus Çengel and afshin ghajar provide 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 this text covers the standard topics of heat transfer with an emphasis on physics and real world every day applications while de emphasizing the intimidating mathematical aspects this approach is designed to take advantage of students intuition making the learning process easier and more engaging this text includes more than 1 000 illustrations with a sensational visual appeal that highlight its key learning features approximately 2 000 homework problems in design computer essay and laboratory type problems

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easier and more engaging 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

this complete reference book covers topics in heat and mass transfer containing extensive information in the form of interesting and realistic examples problems charts tables illustrations and more heat and mass transfer emphasizes practical processes and provides the resources necessary for performing accurate and efficient calculations this excellent reference comes with a complete set of fully integrated software available for download at crcpress.com consisting of 21 computer programs that facilitate calculations using procedures developed in the text easy to follow instructions for software implementation make this a valuable tool for effective problem solving

a unique feature of basic heat and mass transfer is that it has a fully integrated package of computer software the software is intended to serve primarily as a tool for the student at college as well as later in engineering practice

the field of multiphase flows has grown by leaps and bounds in the last thirty years and is now regarded as a major discipline engineering applications products and processes with particles bubbles and drops have consistently grown in number and importance an increasing number of conferences scientific fora and archived journals are dedicated to the dissemination of information on flow heat and mass transfer of fluids with particles bubbles and drops numerical computations and oc thought experimentsoco have supplemented most physical experiments and a great deal of the product design and testing processes the literature on computational fluid dynamics with particles bubbles and drops has grown at an exponential rate giving rise to new results theories and better understanding of the transport processes with particles bubbles and drops this book captures and summarizes all these advances in a unified succinct and pedagogical way sample chapter s chapter 1 introduction 600 kb contents fundamental equations and characteristics of particles bubbles and drops low reynolds number flows high reynolds number flows non spherical particles bubbles and drops effects of rotation shear and boundaries effects of turbulence electro kinetic thermo kinetic and porosity effects effects of higher concentration and collisions molecular and statistical modeling numerical methods cfd readership researchers practicing engineers and physicists that deal with any aspects of multiphase flows it will also be of interest to academics and researchers in the general fields of mechanical and chemical engineering

the aim of this book is to present to the students teachers and practising engineers a comprehensive collection of various material property data and formulae in the field of heat and mass transfer the material is organized in such a way that a reader who has gone through the engineering curriculum could easily use the formulae and data presented in heat transfer calculations hence this compilation

is primarily intended as an adjunct to a standard text the data book devotes considerable space to the property values of materials solids liquids and gases that are commonly used in heat transfer situations property values for various materials at different temperatures are given for the use of designers the formulae for conduction convection radiation boiling condensation freezing melting heat exchangers and mass transfer are arranged in an easily usable tabular form with symbols and units explained alongside the limitations and restrictions in the use of empirical relationships are also mentioned alongside the empirical formulae and charts have been selected suggestions received since the appearance of the fifth edition have been incorporated as far as possible in the new edition a number of charts and data have been added to enhance the value of the book the presentation on convection has been enlarged taking into account the recent publications this book is a comprehensive collection of heat transfer information in si units for students and practitioners

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