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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

introduction to heat and mass transfer for advanced undergraduate and graduate engineering students used in classrooms for over 38 years and updated regularly topics include conduction convection radiation and phase change 2019 edition

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

written by two recognized experts in the field this introduction to heat and mass transfer for engineering students has been used in the classroom for over 32 years and it has been revised and updated regularly worked examples and end of chapter exercises appear throughout the text and a separate solutions manual is available to instructors upon request

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

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 is especially visible in the chapters on convective heat transfer emphasis is 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 thermo hydraulic modeling and simulation 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 the author has avoided duplicating similar problems while incorporating more application based examples all the end of chapter exercise problems are supplemented with stepwise answers primarily designed to serve as a complete textbook for undergraduate and graduate students of mechanical engineering the book will also be useful for students of chemical automobile production and industrial engineering streams the book fully covers the topics of heat transfer coursework and can also be used as reference for students preparing for competitive graduate examinations

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 automobile engineering aeronautical engineering chemical engineering and biotechnology

this book presents a comprehensive treatment of the essential fundamentals of the topics that should be taught as the first level course in heat transfer to the students of engineering disciplines the book is designed to stimulate student learning through clear concise language the theoretical content is well balanced with the problem solving methodology necessary for developing an orderly approach to solving a variety of engineering problems the book provides adequate mathematical rigour to help students achieve a sound understanding of the physical processes involved key features a well balanced coverage between analytical treatments physical concepts and practical demonstrations analytical descriptions of theories pertaining to different modes of heat transfer by the application of conservation equations to control volume and also by the application of conservation equations in differential form like continuity equation navier stokes equations and energy equation a short description of convective heat transfer based on physical understanding and practical applications without going into mathematical analyses chapter 5 a comprehensive description of the principles of convective heat transfer based on mathematical foundation of fluid mechanics with generalized analytical treatments chapters 6 7 and 8 a separate chapter describing the basic mechanisms and principles of mass transfer showing the development of mathematical formulations and finding the solution of simple mass transfer problems a summary at the end of each chapter to highlight key terminologies and concepts and important formulae developed in that chapter a number of worked out examples throughout the text review questions and exercise problems with answers at the end of each chapter this book is appropriate for a one semester course in heat transfer for undergraduate engineering students pursuing careers in mechanical metallurgical aerospace and chemical disciplines

the book covers various topics of heat transfer it explains and analyzes several techniques and modes of heat transfer such as conduction in stationary media convection in moving media and also by radiation it is primarily a text book useful for undergraduate and postgraduate students the book should also interest practicing engineers who wish to refresh their knowledge in the field the book presents the various topics in a systematic way starting from first principles the topics are developed to a fairly advanced level towards the end of each chapter several worked

examples illustrate the engineering applications of the basic modeling tools developed in the text the exercises at the end of the book are arranged chapter wise and challenge the reader to tackle typical real life problems in heat transfer this book will be of potential use for students of mechanical engineering chemical engineering and metallurgy in most engineering colleges

heat transfer has been written for undergraduate students in mechanical nuclear and chemical engineering programs the success of anthony mill s basic heat and mass transfer and heat transfer continues with two new editions for 1999 the careful ordering of topics in each chapter leads students gradually from introductory concepts to advanced material eliminating road blocks to developing solid engineering problem solving skills mathematical concepts from earlier courses are reviewed on as needed basis refreshing students memories and the computational software integrated with the text allows them to obtain reliable numerical results the integrated coverage of design principles and the wide variety of exercises based on current heat and mass transfer technologies encourages students to think like engineers better preparing them for the engineering workplace

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 its own web site that features real heat transfer problems from the industry as well as actual case studies

about the book salient features a number of complex problems along with the solutions are provided objective type questions for self evaluation and better understanding of the subject problems related to the practical aspects of the subject have been worked out checking the authenticity of dimensional homogeneity in case of all derived equations validation of numerical solutions by cross checking plenty of graded exercise problems from simple to complex situations are included variety of questions have been included for the clear grasping of the basic principles redrawing of all the figures for more clarity and understanding radiation shape factor charts and heisler charts have also been included essential tables are included the basic topics have been elaborately discussed presented in a more better and fresher way contents an overview of heat transfer steady state conduction conduction with heat generation heat transfer with extended surfaces fins two dimensional steady heat conduction transient heat conduction convection convective heat transfer practical correlation flow over surfaces forced convection natural convection phase change processes boiling condensation freezing and melting heat exchangers thermal radiation mass

transfer

this title provides a complete introduction to the physical origins of heat and mass transfer while using problem solving methodology the systematic approach aims to develop readers confidence in using this tool for thermal analysis

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 to the point manner along with coverage of the topics the author provides appropriate numerical examples to clarify theory and concepts exercise problems are presented at the end of each chapter to test the understanding gained within each subject a solutions manual and powerpoint slides accompany the text upon qualification

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

noted for its readability comprehensiveness and relevancy the new fifth edition of this bestselling book provides readers with an accessible examination of the heat transfer field they ll gain a better understanding of the terminology and physical principles for any process or system involving heat transfer and they ll find out how to develop representative models of real processes and systems and draw conclusions concerning process systems design or performance from the attendant analysis publisher summary

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

this textbook provides engineers with the capability tools and confidence to solve real world heat transfer problems it includes many advanced topics such as bessel functions laplace transforms separation of variables duhamel s theorem and complex combination as well as high order explicit and implicit numerical integration algorithms these analytical and numerical solution methods are applied to topics not considered in most textbooks examples include heat exchangers involving fluids with varying specific heats or phase changes heat exchangers in which axial conduction is a concern and regenerators derivations of important results are presented completely without skipping steps which reduces student frustration and improves readability and retention the examples are not trivial textbook exercises they are rather complex and timely real world problems that are inherently interesting this book integrates the computational software packages maple matlab feht and engineering equation solver ees directly with the heat transfer material

this book demonstrates the analytical solution of fundamental problems in heat transfer which covers conduction convection and radiation heat transfer the analytical solution of heat transfer problems is described in a simple way which is easy to understand this book also provides competence of solving fundamental heat transfer problems by analytical method which is particularly important to gain a strong background on heat transfer the book is an interdisciplinary heat transfer book which is useful for all academicians and students from different disciplines with different levels of mathematical knowledge the book can be used as a core or supplementary textbook in undergraduate and graduate bridge courses furthermore it is suitable for professional and vocational coursework for technology and engineering professionals

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