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part of the renowned braunwald family of references clinical arrhythmology and electrophysiology a companion to braunwald's heart disease provides today's clinicians with clear authoritative guidance on every aspect of the latest diagnosis and management options for patients with arrhythmias this comprehensive reference on cardiac arrhythmias lays a solid foundation of the underlying mechanisms of cardiac electrophysiology with an emphasis on identifying understanding and treating individual arrhythmias now fully updated from cover to cover and carefully written to provide continuity and a consistent message throughout the 4th edition offers unparalleled coverage of cardiac arrhythmias in an accessible and user friendly manner grounds clinical techniques in basic science for managing patients with complex arrhythmia disorders offers increased clinical content with complete diagnostic and management options including the latest drug based device based and device drug therapies covers new tools and techniques for atrial transseptal and percutaneous pericardial access new ablation energies and tools and new acc hrs guidelines for bradyarrhythmias contains a new chapter on stroke prevention in atrial arrhythmias includes significant content updates on macro reentrant atrial tachycardias in an era of ultra high resolution mapping new mapping and ablation technologies for ventricular tachycardia new genetic mechanisms underlying arrhythmia syndromes and much more provides access to dozens of videos depicting key mapping techniques and fluoroscopy images illustrating techniques for electrophysiologic catheter positioning and atrial septal puncture as well as pericardial access cryoablation and left atrial appendage exclusion procedures uses a consistent format throughout showing every arrhythmia in a similar manner for quick reference an ebook version is included with purchase the ebook allows you to access all of the text figures and references with the ability to search customize your content make notes and highlights and have content read aloud

effectively diagnose and treat a wide range of skin conditions with the latest edition of the highly

regarded andrews diseases of the skin clinical dermatology the 12th edition of this classic reference by esteemed authors william d james md timothy g berger md and dirk m elston md provides state of the art information on newly recognized diseases new conditions and unusual variants of well known diseases as well as new uses for tried and true medications and unique drugs for diseases as disparate as melanoma and rosacea it s your ideal go to resource for clinical dermatology at every stage of your career consult this title on your favorite e reader still the only one volume go to dermatology text practice with confidence through the valued authorship of seasoned professionals dr william d james dr timothy g berger and dr dirk m elston rapidly improve your knowledge of skin conditions through a concise clinically focused user friendly format obtain thorough guidance on clinical presentation and therapy for a full range of common and rare skin diseases ensure that you re up to speed with the hottest topics in dermatology including drug eruptions from new medications new therapeutics for melanoma as well as viral infections biologic agents and newly described gene targets for treatment broaden your knowledge with updated information on serological diagnosis of pemphigus tnfi for hidradenitis suppurativa the use of immunosuppressives for atopic dermatitis excimer laser for the treatment of vitiligo and much more quickly access hundreds of new images depicting a wide variety of skin conditions stay up to date with recent society guidelines including the latest from the american academy of dermatology covering a variety of conditions such as melanoma and atopic dermatitis expand your clinical repertoire and meet your patients expectations with coverage of the most recent cosmetic agents their indications and possible complications

this revised and updated seventh edition continues to provide the most accessible and readable approach to the study of all the vital topics and issues associated with gas dynamic processes at every stage the physics governing the process its applications and limitations are discussed in detail with a strong emphasis on the basic concepts and problem solving skills this text is suitable for a course on gas dynamics compressible flows high speed aerodynamics at both undergraduate and postgraduate levels in aerospace engineering mechanical engineering chemical engineering and applied physics the elegant and concise style of the book along with illustrations and worked out examples makes it eminently suitable for self study by students and also for scientists and engineers working in the field of gas dynamics in industries and research laboratories the computer program to calculate the coordinates of contoured nozzle with the method of characteristics has been given in c language the program listing along with a sample output is given in the appendix new to the edition a new chapter on the power of compressible bernoulli equation extra chapter end examples in chapter 5 additional exercise problems in chapters 5 6 7 and 8 key features concise coverage of the thermodynamic concepts to serve as a revision of the background material introduction to measurements in compressible flows and optical flow visualization techniques introduction to rarefied gas dynamics and high temperature gas dynamics solutions manual for instructors containing the complete worked out solutions to chapter end problems in depth presentation of potential equations for compressible flows similarity rule and two dimensional compressible flows logical and systematic treatment of fundamental aspects of gas dynamics waves in the supersonic regime and gas dynamic processes target audience be b tech mechanical engineering aeronautical engineering me m tech thermal engineering aeronautical engineering

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

building on the last edition dedicated to exploring alternatives to coal and oil based energy conversion methods and published more than ten years ago thermodynamics and heat power eighth edition updates the status of existing direct energy conversion methods as described in the previous work offering a systems approach to the analysis of energy conversion methods this text focuses on the fundamentals involved in thermodynamics and further explores concepts in the areas of ideal gas flow engine analysis air conditioning and heat transfer it examines energy heat and work in relation to thermodynamics and also explores the properties of temperature and pressures the book emphasizes practical mechanical systems and incorporates problems at the end of the chapters to advance the application of the material what's new in the eighth edition an emphasis on a systems approach to problems more discussion of the types of heat and of entropy added explanations for understanding pound mass and the mole analysis of steady flow gas processes replacing the compressible flow section the concept of paddle work to illustrate how frictional effects can be analyzed a clearer discussion of the psychrometric chart and its usage in analyzing air conditioning systems updates of the status of direct energy conversion systems a description of how the cooling tower is utilized in high rise buildings practical automotive engine analysis expanded brayton cycle analysis including intercooling reheat and regeneration and their effect on gas turbine efficiency a description of fins and how they improve heat transfer rates added illustrative problems and new homework problems availability of a publisher's website for fluid properties and other reference materials properties of the latest in commercial refrigerants this text presents an understanding of basic concepts on the subject of thermodynamics and is a definitive resource for undergraduate students in engineering programs most specifically students studying engineering technology

updated and enhanced with numerous worked out examples and exercises this second edition continues to present a thorough concise and accurate discussion of fundamentals and principles of thermodynamics it focuses on practical applications of theory and equips students with sound techniques for solving engineering problems the treatment of the subject matter emphasizes the phenomena which are associated with the various thermodynamic processes the topics covered are supported by an extensive set of example problems to enhance the student's understanding of the concepts introduced the end of chapter problems serve to aid the learning process and extend the material covered in the text by including problems characteristic of engineering design the book is designed to serve as a text for undergraduate engineering students for a course in thermodynamics

the ninth edition of thermodynamics and heat power contains a revised sequence of thermodynamics concepts including physical properties processes and energy systems to enable the attainment of learning outcomes by engineering and engineering technology students taking an introductory course in thermodynamics built around an easily understandable approach this updated text focuses on thermodynamics fundamentals and explores renewable energy generation ic engines power plants hvac and applied heat transfer energy heat and work are examined in relation to thermodynamics cycles and the effects of fluid properties on system performance are explained numerous step by step examples and problems make this text ideal for undergraduate students this new edition introduces physics based mathematical formulations and examples in a way that enables problem solving contains extensive learning features within each chapter and basic computational exercises for in class and laboratory activities includes a straightforward review of applicable calculus concepts uses everyday examples to foster a better understanding of thermal science and engineering concepts this book is suitable for undergraduate students in engineering and engineering technology

this book is designed for a first course in refrigeration and air conditioning the subject matter has been developed in a logical and coherent manner with neat illustrations and a fairly large number of solved examples and unsolved problems the text developed from the author's teaching experience of many years is suitable for the senior level undergraduate and first year postgraduate students of mechanical engineering automobile engineering as well as chemical engineering the text commences with an introduction to the fundamentals of thermo dynamics and a brief treatment of the various methods of

refrigeration then follows the detailed discussion and analysis of air refrigeration systems vapour compression and vapour absorption refrigeration systems with special emphasis on developing sound physical concepts and gaining problem solving skills refrigerants are exhaustively dealt with in a separate chapter the remainder chapters of the book deal with psychrometry and various processes required for the analysis of air conditioning systems technical descriptions of compressors evaporators condensers expansion devices and ducts are provided along with design practices for cooling and heating load calculations the basic principles of cryogenic systems and applications of cryogenic gases and air liquefaction systems have also been dealt with the second edition incorporates a new sections on vortex tube solar refrigeration and magnetic refrigeration in chapter 2 b additional solved examples on vapour compression refrigeration system using the r134a refrigerant in chapter 4 c new sections on duct arrangement systems and air distribution systems in chapter 15 d a new chapter 17 on food preservation

instrumentation measurements and experiments in fluids second edition is primarily focused on essentials required for experimentation in fluids explaining basic principles and addressing the tools and methods needed for advanced experimentation it also provides insight into the vital topics and issues associated with the devices and instruments used for fluid mechanics and gas dynamics experiments the second edition adds exercise problems with answers along with piv systems of flow visualization water flow channel for flow visualization and pictures with schlieren and shadowgraph from which possible quantitative information can be extracted ancillary materials include detailed solutions manual and lecture slides for the instructors

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