

# Thermodynamics An Engineering Approach 6th Ed Mcgraw Hill

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**Refrigeration Systems and Applications** Ibrahim Dincer  
2011-08-10 Refrigeration Systems and Applications, 2nd edition offers a comprehensive treatise that addresses real-life technical and operational problems, enabling the reader to gain an understanding of the fundamental principles and the practical applications of refrigeration technology. New and unique analysis techniques (including exergy as a potential tool), models, correlations, procedures and applications are covered, and recent developments in the field are included - many of which are taken from the author's own research activities in this area. The book also includes some discussion of global warming issues and its potential solutions. Enables the reader to gain an understanding of the fundamental principles and the practical applications of refrigeration technologies. Discusses crucial industrial technical and operational problems, as well as new performance improvement techniques and tools for better design and analysis. Includes fundamental aspects of thermodynamics, fluid

flow, and heat transfer; refrigerants; refrigeration cycles and systems; advanced refrigeration cycles and systems, including some novel applications; heat pumps; heat pipes; and many more. Provides easy to follow explanations, numerous new chapter-end problems and worked-out examples as learning aids for students and instructors. Refrigeration is extensively used in a variety of thermal engineering applications ranging from the cooling of electronic devices to food cooling processes. Its wide-ranging implications and applications mean that this industry plays a key role in national and international economies, and it continues to be an area of active research and development. Refrigeration Systems and Applications, 2nd edition forms a useful reference source for graduate and postgraduate students and researchers in academia and as well as practicing engineers working in this important field who are interested in refrigeration systems and applications and the methods and analysis tools for their analysis, design and performance improvement. *Basic Thermodynamics* B. K. VENKANNA, SWATI B. V.

2010-07-01 This book provides an in-depth discussion of the principles of thermodynamics. It focuses on engineering applications of theory and sound techniques for solving thermodynamic problems. The book presents the fundamental concepts of thermodynamics and describes the theory of work and heat. The text covers in detail the first law and the second law of thermodynamics with their applications. It also explains the concepts of entropy and availability and irreversibility. In addition, the book presents thermodynamic properties of pure substances, ideal gases and mixtures of ideal gases, as well as real gases. This book is designed for undergraduate students of mechanical engineering, industrial and production engineering, automobile engineering and aeronautical engineering for their courses in thermodynamics.

**Introduction to Chemical Engineering Thermodynamics** J. M. Smith 2021-02

Engineering Thermodynamics and 21st Century Energy Problems Donna Riley 2022-05-31 Energy is a basic human need; technologies for energy conversion and use are fundamental to human survival. As energy technology evolves to meet demands for development and ecological sustainability in the 21st century, engineers need to have up-to-date skills and knowledge to meet the creative challenges posed by current and future energy problems. Further, engineers need to cultivate a commitment to and passion for lifelong learning which will enable us to actively engage new developments in the field. This undergraduate textbook companion seeks to develop these capacities in tomorrow's engineers in order to provide for future energy needs around the world. This book is designed to complement traditional texts in engineering thermodynamics, and thus is

organized to accompany explorations of the First and Second Laws, fundamental property relations, and various applications across engineering disciplines. It contains twenty modules targeted toward meeting five often-neglected ABET outcomes: ethics, communication, lifelong learning, social context, and contemporary issues. The modules are based on pedagogies of liberation, used for decades in the humanities and social sciences for instilling critical thinking and reflective action in students by bringing attention to power relations in the classroom and in the world. This book is intended to produce a conversation and creative exploration around how to teach and learn thermodynamics differently. Because liberative pedagogies are at their heart relational, it is important to maintain spaces for discussing classroom practices with these modules, and for sharing ideas for implementing critical pedagogies in engineering contexts. The reader is therefore encouraged to visit the book's blog. Table of Contents: What and Why? / The First Law: Making Theory Relevant / The Second Law and Property Relations / Thinking Big Picture about Energy and Sustainability

**Buletin Poltanesa Vol. 23 No. 1 Juni 2022** Politeknik Pertanian Negeri Samarinda 2022-06-20 Buletin Poltanesa is a collection of research articles, scientific works, and dedication from all academic community in order to integrate information. Buletin Poltanesa provides open publication services for all members of the public, both in all tertiary educational and teacher environments and other research institutions, with the freedom to exchange information that is dedicated to facilitating collaboration between researchers, writers and readers through information exchange. Buletin Poltanesa was introduced and developed in Research Department of

Politeknik Pertanian Negeri Samarinda Buletin Poltanesa is published periodically twice a year, in June and December, this bulletin contains the results of research activities, discoveries and ideas in the field all multidisciplinary sciences. Hopefully with the articles in cultivation researchers can share knowledge in order to advance Indonesia, especially East and North Borneo.

**Thermodynamics and the Destruction of Resources** Bhavik R. Bakshi 2011-04-11 This book is a unique, multidisciplinary effort to apply rigorous thermodynamics fundamentals, a disciplined scholarly approach, to problems of sustainability, energy, and resource uses. Applying thermodynamic thinking to problems of sustainable behavior is a significant advantage in bringing order to ill-defined questions with a great variety of proposed solutions, some of which are more destructive than the original problem. The articles are pitched at a level accessible to advanced undergraduates and graduate students in courses on sustainability, sustainable engineering, industrial ecology, sustainable manufacturing, and green engineering. The timeliness of the topic, and the urgent need for solutions make this book attractive to general readers and specialist researchers as well. Top international figures from many disciplines, including engineers, ecologists, economists, physicists, chemists, policy experts and industrial ecologists among others make up the impressive list of contributors.

**PEM Fuel Cells** Yun Wang 2013-04-06 Polymer Electrolyte Membrane (PEM) fuel cells convert chemical energy in hydrogen into electrical energy with water as the only by-product. Thus, PEM fuel cells hold great promise to reduce both pollutant emissions and dependency on fossil fuels, especially for transportation—passenger cars,

utility vehicles, and buses—and small-scale stationary and portable power generators. But one of the greatest challenges to realizing the high efficiency and zero emissions potential of PEM fuel cells technology is heat and water management. This book provides an introduction to the essential concepts for effective thermal and water management in PEM fuel cells and an assessment on the current status of fundamental research in this field. The book offers you: • An overview of current energy and environmental challenges and their imperatives for the development of renewable energy resources, including discussion of the role of PEM fuel cells in addressing these issues; • Reviews of basic principles pertaining to PEM fuel cells, including thermodynamics, electrochemical reaction kinetics, flow, heat and mass transfer; and • Descriptions and discussions of water transport and management within a PEM fuel cell, including vapor- and liquid-phase water removal from the electrodes, the effects of two-phase flow, and solid water or ice dynamics and removal, particularly the specialized case of starting a PEM fuel cell at sub-freezing temperatures (cold start) and the various processes related to ice formation.

Thermodynamics Yunus A. Çengel 2018-01-23

*Thermodynamics, An Engineering Approach*, covers the basic principles of thermodynamics while presenting a wealth of real-world engineering examples, so students get a feel for how thermodynamics is applied in engineering practice. This text helps students develop an intuitive understanding by emphasizing the physics and physical arguments. Çengel and Boles explore the various facets of thermodynamics through careful explanations of concepts and use of numerous practical examples and figures, having students develop necessary

skills to bridge the gap between knowledge, and the confidence to properly apply their knowledge. The 9th edition offers new video and applet tools inside Connect. McGraw-Hill's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty.

**Qpedia Thermal Management – Electronics Cooling Book, Volume 3** Advanced Thermal Solutions 2009-01-01 The complete editorial contents of Qpedia Thermal eMagazine, Volume 3, Issues 1 - 12 features in-depth, technical articles covering the most critical areas of electronics cooling.

**PROPERTY TABLES BOOKLET FOR THERMODYNAMICS: AN ENGINEERING APPROACH** MICHAEL. CENGEL BOLES (YUNUS.) 2018-02-24

*Applied Thermodynamics* Onkar Singh 2006-01-01 This Book Presents A Systematic Account Of The Concepts And Principles Of Engineering Thermodynamics And The Concepts And Practices Of Thermal Engineering. The Book Covers Basic Course Of Engineering Thermodynamics And Also Deals With The Advanced Course Of Thermal Engineering. This Book Will Meet The Requirements Of The Undergraduate Students Of Engineering And Technology Undertaking The Compulsory Course Of Engineering Thermodynamics. The Subject Matter Of Book Is Sufficient

For The Students Of Mechanical Engineering/Industrial-Production Engineering, Aeronautical Engineering, Undertaking Advanced Courses In The Name Of Thermal Engineering/Heat Engineering/ Applied Thermodynamics Etc. Presentation Of The Subject Matter Has Been Made In Very Simple And Understandable Language. The Book Is Written In SI System Of Units And Each Chapter Has Been Provided With Sufficient Number Of Typical Numerical Problems Of Solved And Unsolved Questions With Answers.

**Thermodynamics** Stephen R. Turns 2006-03-06 The focus of Thermodynamics: Concepts and Applications is on traditional thermodynamics topics, but structurally the book introduces the thermal-fluid sciences. Chapter 2 includes essentially all material related to thermodynamic properties clearly showing the hierarchy of thermodynamic state relationships. Element conservation is considered in Chapter 3 as a way of expressing conservation of mass. Constant-pressure and volume combustion are considered in Chapter 5 - Energy Conservation. Chemical and phase equilibria are treated as a consequence of the 2nd law in Chapter 6. 2nd law topics are introduced hierarchically in one chapter, important structure for a beginner. The book is designed for the instructor to select topics and combine them with material from other chapters seamlessly. Pedagogical devices include: learning objectives, chapter overviews and summaries, historical perspectives, and numerous examples, questions and problems and lavish illustrations. Students are encouraged to use the National Institute of Science and Technology (NIST) online properties database.

*Biothermodynamics* Mustafa Ozilgen 2016-11-18 Over the past several decades there has been increasing research interest in thermodynamics as applied to biological

systems. This concerns topics such as muscle work and internal energy such as fat and starch. Applications of the first and second laws of thermodynamics to the human body are important to dieticians and health science experts, and applications of these concepts to the animal body are a major concern of animal scientists. This book covers these key topics, which are typically not covered in classic or traditional thermodynamics texts used in mechanical and chemical engineering.

Global Warming Ibrahim Dincer 2009-12-03 Global Warming: Engineering Solutions goes beyond the discussion of what global warming is, and offers complete concrete solutions that can be used to help prevent global warming. Innovative engineering solutions are needed to reduce the effects of global warming. Discussed here are proposed engineering solutions for reducing global warming resulting from carbon dioxide pollution, poor energy and environment policies and emission pollution. Solutions discussed include but are not limited to: energy conversion technologies and their advantages, energy management and conservation, energy saving and energy security, renewable and sustainable energy technologies, emission reduction, sustainable development; pollution control and measures, policy development, global energy stability and sustainability.

**Liquid Vapor Phase Change Phenomena** Van P. Carey 2018-05-02 Liquid-Vapor Phase-Change Phenomena presents the basic thermophysics and transport principles that underlie the mechanisms of condensation and vaporization processes. The text has been thoroughly updated to reflect recent innovations in research and to strengthen the fundamental focus of the first edition. Starting with an integrated presentation of the nonequilibrium thermodynamics and interfacial phenomena associated with

vaporization and condensation, coverage follows of the heat transfer and fluid flow mechanisms in such processes. The second edition includes significant new material on the nanoscale and microscale thermophysics of boiling and condensation phenomena and the use of advanced computational tools to create new models of phase-change events. The importance of basic phenomena to a wide variety of applications is emphasized and illustrated throughout using examples and problems. Suitable for senior undergraduate and first-year graduate students in mechanical or chemical engineering, the book can also be a helpful reference for practicing engineers or scientists studying the fundamental physics of nucleation, boiling and condensation.

*Loose Leaf Version for Thermodynamics: An Engineering Approach 7E* Yunus Cengel 2012-06-22 Thermodynamics Seventh Edition covers the basic principles of thermodynamics while presenting a wealth of real-world engineering examples so students get a feel for how thermodynamics is applied in engineering practice. This text helps students develop an intuitive understanding of thermodynamics by emphasizing the physics and physical arguments. Cengel/Boles explore the various facets of thermodynamics through careful explanations of concepts and its use of numerous practical examples and figures, having students develop necessary skills to bridge the gap between knowledge and the confidence to properly apply knowledge. The media package for this text is extensive, giving users a large variety of supplemental resources to choose from. A Student Resources DVD is packaged with each new copy of the text and contains the popular Engineering Equation Solver (EES) software. McGraw-Hill's new Connect is available to students and instructors. Connect is a powerful, web-

based assignment management system that makes creating and grading assignments easy for instructors and learning convenient for students. It saves time and makes learning for students accessible anytime, anywhere. With Connect, instructors can easily manage assignments, grading, progress, and students receive instant feedback from assignments and practice problems.

Introduction to Thermodynamics and Heat Transfer Yunus A. Cengel 2009-02 This text provides balanced coverage of the basic concepts of thermodynamics and heat transfer. Together with the illustrations, student-friendly writing style, and accessible math, this is an ideal text for an introductory thermal science course for non-mechanical engineering majors.

**Thermodynamics** Yunus A. Çengel 2014-08 "Thermodynamics, An Engineering Approach," eighth edition, covers the basic principles of thermodynamics while presenting a wealth of real-world engineering examples so students get a feel for how thermodynamics is applied in engineering practice. This text helps students develop an intuitive understanding by emphasizing the physics and physical arguments. Cengel and Boles explore the various facets of thermodynamics through careful explanations of concepts and use of numerous practical examples and figures, having students develop necessary skills to bridge the gap between knowledge and the confidence to properly apply their knowledge. McGraw-Hill is proud to offer "Connect" with the eighth edition of Cengel/Boles, "Thermodynamics, An Engineering Approach." This innovative and powerful new system helps your students learn more efficiently and gives you the ability to assign homework problems simply and easily. Problems are graded automatically, and the results are recorded immediately. Track individual student

performance - by question, assignment, or in relation to the class overall with detailed grade reports.

ConnectPlus provides students with all the advantages of Connect, plus 24/7 access to an eBook. Cengel's "Thermodynamics," eighth edition, includes the power of McGraw-Hill's "LearnSmart" a proven adaptive learning system that helps students learn faster, study more efficiently, and retain more knowledge through a series of adaptive questions. This innovative study tool pinpoints concepts the student does not understand and maps out a personalized plan for success.

Efficiency, Performance and Robustness of Gas Turbines

Konstantin Volkov 2012-04-04 A wide range of issues related to analysis of gas turbines and their engineering applications are considered in the book. Analytical and experimental methods are employed to identify failures and quantify operating conditions and efficiency of gas turbines. Gas turbine engine defect diagnostic and condition monitoring systems, operating conditions of open gas turbines, reduction of jet mixing noise, recovery of exhaust heat from gas turbines, appropriate materials and coatings, ultra micro gas turbines and applications of gas turbines are discussed. The open exchange of scientific results and ideas will hopefully lead to improved reliability of gas turbines.

**Turbomachinery** Maneesh Dubey 2018-07-25 Salient Features: - Detailed Coverage of topics with industrial applications like Cavitation, Pumps and Turbines Designs, Installation of Turbines etc. - A dedicated chapter on Fluid Systems - Module based presentation of chapters (Any chapter combined with Chapter 1 forms a module on the former)

Property Tables Booklet for Thermodynamics Yunis A. Cengel 2014

**Thermal Engineering** Mahesh M. Rathore 2010

**Ballistics** Donald E. Carlucci 2018-03-15 With new chapters, homework problems, case studies, figures, and examples, *Ballistics: Theory and Design of Guns and Ammunition*, Third Edition encourages superior design and innovative applications in the field of ballistics. It examines the analytical and computational tools for predicting a weapon's behavior in terms of pressure, stress, and velocity, demonstrating their applications in ammunition and weapons design. New coverage in the Third Edition includes gas-powered guns, and naval ordinance. With its thorough coverage of interior, exterior and terminal ballistics, this new edition continues to be the standard resource for those studying the technology of guns and ammunition.

**Applied Thermodynamics** B. K. Venkanna 2011

**Engineering Thermodynamics** P. K. Nag 2005

**Physics of Cryogenics** Bahman Zohuri 2017-11-17 *Physics of Cryogenics: An Ultralow Temperature Phenomenon* discusses the significant number of advances that have been made during the last few years in a variety of cryocoolers, such as Brayton, Joule-Thomson, Stirling, pulse tube, Gifford-McMahon and magnetic refrigerators. The book reviews various approaches taken to improve reliability, a major driving force for new research areas. The advantages and disadvantages of different cycles are compared, and the latest improvements in each of these cryocoolers is discussed. The book starts with the thermodynamic fundamentals, followed by the definition of cryogenic and the associated science behind low temperature phenomena and properties. This book is an ideal resource for scientists, engineers and graduate and senior undergraduate students who need a better understanding of the science of cryogenics and

related thermodynamics. Defines the fundamentals of thermodynamics that are associated with cryogenic processes Provides an overview of the history of the development of cryogenic technology Includes new, low temperature tables written by the author Deals with the application of cryogenics to preserve objects at very low temperature Explains how cryogenic phenomena work for human cell and human body preservations and new medical approaches

*Engineering Thermodynamics* 2018

**Chemical Kinetics and Catalysis**

**Whole System Design** Peter Stansinoupolos 2013-01-11

*Whole System Design* is increasingly being seen as one of the most cost-effective ways to both increase the productivity and reduce the negative environmental impacts of an engineered system. A focus on design is critical, as the output from this stage of the project locks in most of the economic and environmental performance of the designed system throughout its life, which can span from a few years to many decades. Indeed, it is now widely acknowledged that all designers - particularly engineers, architects and industrial designers - need to be able to understand and implement a whole system design approach. This book provides a clear design methodology, based on leading efforts in the field, and is supported by worked examples that demonstrate how advances in energy, materials and water productivity can be achieved through applying an integrated approach to sustainable engineering. Chapters 1-5 outline the approach and explain how it can be implemented to enhance the established Systems Engineering framework. Chapters 6-10 demonstrate, through detailed worked examples, the application of the approach to industrial pumping systems, passenger

vehicles, electronics and computer systems, temperature control of buildings, and domestic water systems. Published with The Natural Edge Project, the World Federation of Engineering Organizations, UNESCO and the Australian Government.

Thermodynamics Yunus A. Çengel 2002 The 4th Edition of Çengel & Boles Thermodynamics: An Engineering Approach takes thermodynamics education to the next level through its intuitive and innovative approach. A long-time favorite among students and instructors alike because of its highly engaging, student-oriented conversational writing style, this book is now the most widely adopted thermodynamics text in the U.S. and in the world.

Efficiency and Sustainability in the Energy and Chemical Industries Krishnan Sankaranarayanan 2004-01-21

Translating fundamental principles of irreversible thermodynamics into day-to-day engineering concepts, this reference provides the tools to accurately measure process efficiency and sustainability in the power and chemical industries—helping engineers to recognize why losses occur and how they can be reduced utilizing familiar thermodynamic principles. Compares the present industrial society with an emerging metabolic society in which mass production and consumption are in closer harmony with the natural environment. The first book to utilize classic thermodynamic principles for clear understanding, analysis, and optimization of work flows, environmental resources, and driving forces in the chemical and power industries.

Thermodynamics Yunus A. Çengel 2007 Overview This book moves students toward a clear understanding and a firm grasp of the basic principles of thermodynamics. It communicates directly with tomorrow's engineers in a simple yet precise manner that encourages creative

thinking. Features of this Edition

- An early introduction to the First Law of Thermodynamics (Chapter 2) establishes a general understanding of energy, mechanisms of energy transfer, and the concept of energy balance, thermo-economics, and conversion efficiency.
- Over 700 new homework problems which further enhance the extensive and diverse homework problem sets.
- Physical intuition to help students develop a sense of the underlying physical mechanisms and a mastery of solving practical problems that an engineer is likely to face in the real world.

Free Student Resources DVD containing

- Limited Academic Version of EES (Engineering Equation Solver) software with scripted solutions to selected text problems
- Physical experiments in thermodynamics with videos and complete write-ups of the experiments, as well as actual data
- Interactive Thermodynamics Tutorial to reinforce student learning of thermodynamics concepts

Thermodynamics - SI Units - Sie Çengel

Commonly Asked Questions in Thermodynamics Marc J. Assael 2011-03-14 Have you ever had a question that keeps persisting and for which you cannot find a clear answer? Is the question seemingly so 'simple that the problem is glossed over in most resources, or skipped entirely? CRC Press/Taylor and Francis is pleased to introduce Commonly Asked Questions in Thermodynamics, the first in a new series of books that address

Thermodynamics Yunus A. Çengel 2011 Accompanying DVD-ROM contains the Limited Academic Version of EES (Engineering Equation Solver) software with scripted solutions to selected text problems.

Engineering Thermodynamics Kavati Venkateswarlu 2020-12-11 This textbook comprehensively covers the fundamentals and advanced concepts of thermodynamics in

a single volume. It provides a detailed discussion of advanced concepts that include energy efficiency, energy sustainability, energy security, organic Rankine cycle, combined cycle power plants, combined cycle power plant integrated with organic Rankine cycle and absorption refrigeration system, integrated coal gasification combined cycle power plants, energy conservation in domestic refrigerators, and next-generation low-global warming potential refrigerants. Pedagogical features include solved problems and unsolved exercises interspersed throughout the text for better understanding. This textbook is primarily written for senior undergraduate students in the fields of mechanical, automobile, chemical, civil, and aerospace engineering for courses on engineering thermodynamics/thermodynamics and for graduate students in thermal engineering and energy engineering for courses on advanced thermodynamics. It is accompanied by teaching resources, including a solutions manual for instructors. FEATURES Provides design and experimental problems for better understanding Comprehensively discusses power cycles and refrigeration cycles and their advancements Explores the design of energy-efficient buildings to reduce energy consumption Property tables, charts, and multiple-choice questions comprise appendices of the book and are available at <https://www.routledge.com/9780367646288>.

**Thermodynamics** Yunus A. Çengel 2018 Accompanying DVD-ROM contains the Limited Academic Version of EES (Engineering Equation Solver) software with scripted solutions to selected text problems.

Application of Compact Heat Exchangers For Combined Cycle Driven Efficiency In Next Generation Nuclear Power Plants Bahman Zohuri 2015-11-19 Covers the fundamentals

of combined-cycle plants to provide background for understanding the progressive design approaches at the heart of the text Discusses the types of compact heat exchanger surfaces, suggesting novel designs that can be considered for optimal cost effectiveness and maximum energy production Undertakes the thermal analysis of these compact heat exchangers throughout the life cycle, from the design perspective through operational and safety assurance stages This book describes the quest to create novel designs for compact heat exchangers in support of emergent combined cycle nuclear plants. The text opens with a concise explanation of the fundamentals of combined cycles, describing their efficiency impacts on electrical power generation systems. It then covers the implementation of these principles in nuclear reactor power systems, focusing on the role of compact heat exchangers in the combined cycle loop and applying them to the challenges facing actual nuclear power systems. The various types of compact heat exchanger surfaces and designs are given thorough consideration before the author turns his attention to discussing current and projected reactor systems, and how the novel design of these compact heat exchangers can be applied to innovative designs, operation and safety analyses to optimize thermal efficiency. The book is written at an undergraduate level, but will be useful to practicing engineers and scientists as well.

**Loose Leaf for Thermodynamics: An Engineering Approach** Yunus A. Çengel, Dr. 2018-01-24 Thermodynamics, An Engineering Approach, covers the basic principles of thermodynamics while presenting a wealth of real-world engineering examples, so students get a feel for how thermodynamics is applied in engineering practice. This

text helps students develop an intuitive understanding by emphasizing the physics and physical arguments. Cengel and Boles explore the various facets of thermodynamics through careful explanations of concepts and use of numerous practical examples and figures, having students develop necessary skills to bridge the gap between knowledge, and the confidence to properly apply their knowledge. The 9th edition offers new video and applet tools inside Connect. McGraw-Hill Education's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect

allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty.

**A Concise Manual Of Engineering Thermodynamics** Radulescu Liviu F 2018-10-19 This book is intended for undergraduate students in mechanical engineering. It covers the fundamentals of applied thermodynamics, including heat transfer and environmental control. A collection of more than 50 carefully tailored problems to promote greater understanding of the subject, supported by relevant property tables and diagrams are included along with a solutions manual.