

## Carnot Cycle Numerical Problems With Solutions

Books in this series have been specially designed to meet the requirements of a large spectrum of engineering students of WBUT-those who find learning the concepts difficult and want to study through solved examples and those who wish to study in the traditional way. Modern-day engineers constantly encounter applications of thermodynamics and fluid mechanics while working with engineering designs and structures, converting the power of heat and fluid into mechanical work-from early steam engines to hydroelectricity and supersonic jets. Equipping budding engineers with state-of-the-art technology, Engineering Thermodynamics and Fluid Mechanics provides an in-depth study of the two disciplines.

**Key Features**

1. Summary at the end of each chapter for quick recapitulation
2. Large number of MCQs, review questions and numerical problem sets for self-assessment
3. Five model test papers for practice
4. Solution to past ten years' university papers

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

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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 Physics of Energy provides a comprehensive and systematic introduction to the scientific principles governing energy sources, uses, and systems. This definitive textbook traces the flow of energy from sources such as solar power, nuclear power, wind power, water power, and fossil fuels through its transformation in devices such as heat engines and electrical generators, to its uses including transportation, heating, cooling, and other applications. The flow of energy through the Earth's atmosphere and oceans, and systems issues including storage, electric grids, and efficiency and conservation are presented in a scientific context along with topics such as radiation from nuclear power and climate change from the use of fossil fuels. Students, scientists, engineers, energy industry professionals, and concerned citizens with some mathematical and scientific background who wish to understand energy systems and issues quantitatively will find this textbook of great interest.

Deals with the availability method and its application to power plant system design and energy conversion. The first part of the book describes the development and the formulation of the availability method. The second part presents its applications to energy conversion

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processes. Examples for each energy conversion system are introduced and there are practice problems throughout the text.

This eminently readable introductory text provides a sound foundation to understand the abstract concepts used to express the laws of thermodynamics. The emphasis is on the fundamentals rather than spoon-feeding the subject matter. The concepts are explained with utmost clarity in simple and elegant language. It provides the background material needed for students to solve practical problems related to thermodynamics. Answers to all problems are provided.

Worked Problems in Heat, Thermodynamics and Kinetic Theory for Physics Students is a complementary to textbooks in physics. This book is a collection of exercise problems that have been part of tutorial classes in heat and thermodynamics at the University of London. This collection of exercise problems, with answers that are fully worked out, deals with various topics. This book poses problems covering the definition of temperature such as calculating the assigned value of the temperature of boiling water under specific conditions. This text also gives example of problems dealing with the first law of thermodynamics and with the definition of thermal capacities. Some practical questions such as problems dealing with thermal engines are presented. This book then discusses problems using the energy equation, as well as asking the student to derive a general equation of state of a material satisfying a specific condition. This text challenges the student to use a T-S diagram to calculate the efficiency of a reversible

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cycle under certain conditions. Several other problems concern the Joule and Joule-Kelvin effects, low temperature physics, and heat conduction. This review material can be helpful for students of physics, thermodynamics, and related subjects. It can also be used by teachers of physics.

Energy-its discovery, its availability, its use-concerns all of us in general and the engineers of today and tomorrow in particular. The study of thermodynamics-the science of energy-is a critical element in the education of all types of engineers. Engineering Thermodynamics provides a thorough introduction to the art and science of engineering thermodynamics. It describes in a straightforward fashion the basic tools necessary to obtain quantitative solutions to common engineering applications involving energy and its conversion, conservation, and transfer. This book is directed toward sophomore, junior, and senior students who have studied elementary physics and calculus and who are majoring in mechanical engineering; it serves as a convenient reference for other engineering disciplines as well. The first part of the book is devoted to basic thermodynamic principles, essentially presented in the classic way; the second part applies these principles to many situations, including air conditioning and the interpretation of statistical phenomena.

This book contains a modern selection of about 200 solved problems and examples arranged in a didactic way for hands-on experience with course work in a standard advanced undergraduate/first-year graduate class in thermodynamics and statistical physics. The principles of thermodynamics and

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equilibrium statistical physics are few and simple, but their application often proves more involved than it may seem at first sight. This book is a comprehensive complement to any textbook in the field, emphasizing the analogies between the different systems, and paves the way for an in-depth study of solid state physics, soft matter physics, and field theory.

A much-needed, up-to-date guide on conventional and alternative power generation This book goes beyond the traditional methods of power generation. It introduces the many recent innovations on the production of electricity and the way they play a major role in combating global warming and improving the efficiency of generation. It contains a strong analytical approach to underpin the theory of power plants—for those using conventional fuels, as well as those using renewable fuels—and looks at the problems from a unique environmental engineering perspective. The book also includes numerous worked examples and case studies to demonstrate the working principles of these systems.

Conventional and Alternative Power Generation:

Thermodynamics, Mitigation and Sustainability is divided into 8 chapters that comprehensively cover: thermodynamic systems; vapor power cycles, gas power cycles, combustion; control of particulates; carbon capture and storage; air pollution dispersal; and renewable energy and power plants.

Features an abundance of worked examples and tutorials

Examines the problems of generating power from an environmental engineering perspective Includes all of the latest information, technology, theories, and principles on power generation

Conventional and Alternative Power Generation: Thermodynamics, Mitigation and Sustainability is an ideal text for courses on mechanical, chemical, and electrical engineering.

In 1824, Sadi Carnot postulated a monumental theory, which ranks with the greatest of scientific classics. He became

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immortal when he published his technical paper "Reflections on the Motive Power of Heat", which included his famous "Carnot cycle" theory. His theory is included in almost every thermodynamics, engineering, and physics course in colleges worldwide. It defines the maximum thermal efficiency of all heat engines operating within the same temperature range. Now, "The Most Efficient Engine" cycle, using a different approach, defines the maximum thermal efficiency as does the Carnot cycle. In addition, it relates temperature, efficiency, and power in a meaningful way, giving better insight to heat engine operation. This book includes the Carnot cycle, the Stirling cycle, and the "Most Efficient Engine" cycle, along with some relevant thermodynamics. As an interesting, surprising, and amazing sidelight, the "Most Efficient Engine" cycle equation, for efficiency at maximum power, is validated by and validates the widely quoted Chambadal - Novikov - Curzon - Ahlborn equation, giving the exact same results.  $e = 1 - \sqrt{TL/TH}$  The book will appeal to a broad spectrum of readers. It promises to be another classic

Thermal Engineering covers in a comprehensive and coherent manner fundamentals of thermodynamics and their engineering applications. Beginning with elementary ideas of pressure, temperature and heat, it develops the laws of thermodynamics from experimental and engineering backgrounds. Steam turbine is covered in simple and easy methods of drawing velocity triangles. As thermal science is related to heat transfer, a general overview is presented along with a discussion on various power cycles for improving efficiency.

Essentials of Thermodynamics offers a fresh perspective on classical thermodynamics and its explanation of natural phenomena. It combines fundamental principles with applications to offer an integrated resource for students, teachers and experts alike. The essence of classic texts has

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been distilled to give a balanced and in-depth treatment, including a detailed history of ideas which explains how thermodynamics evolved without knowledge of the underlying atomic structure of matter. The principles are illustrated by a vast range of applications, such as osmotic pressure, how solids melt and liquids boil, the incredible race to reach absolute zero, and the modern theme of the renormalization group. Topics are handled using a variety of techniques, which helps readers see how concepts such as entropy and free energy can be applied to many situations, and in diverse ways. The book has a large number of solved examples and problems in each chapter, as well as a carefully selected guide to further reading. The treatment of traditional topics like the three laws of thermodynamics, Carnot cycles, Clapeyron equation, phase equilibria, and dilute solutions is considerably more detailed than usual. For example, the chapter on Carnot cycles discusses exotic cases like the photon cycle along with more practical ones like the Otto, Diesel and Rankine cycles. There is a chapter on critical phenomena that is modern and yet highly pedagogical and contains a first principles calculation of the critical exponents of Van der Waals systems. Topics like entropy constants, surface thermodynamics, and superconducting phase transitions are explained in depth while maintaining accessibility for different readers.

"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

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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.

Publisher's Note: Products purchased from Third Party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entitlements included with the product. Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately, there's Schaum's. More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams. Schaum's is the key to faster learning and higher grades in every subject. Each Outline presents all the essential course information in an easy-to-follow, topic-by-topic format. You also get hundreds of examples, solved problems, and practice exercises to test your skills. Schaum's Outline of Thermodynamics for Engineers, Fourth Edition is packed with four sample tests for the engineering qualifying exam,



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hundreds of examples, solved problems, and practice exercises to test your skills. This updated guide approaches the subject in a more concise, ordered manner than most standard texts, which are often filled with extraneous material. Schaum's Outline of Thermodynamics for Engineers, Fourth Edition features:

- 889 fully-solved problems
- 4 sample tests for the engineering qualifying exam
- An accessible review of thermodynamics
- Chapter on refrigeration cycles
- Nomenclature reflecting current usage
- Support for all the major leading textbooks in thermodynamics
- Content that is appropriate for Thermodynamics, Engineering Thermodynamics, Principles of Thermodynamics, Fundamentals of Thermodynamics, and Thermodynamics I & II courses

PLUS: Access to the revised Schaums.com website and new app, containing 20 problem-solving videos, and more. Schaum's reinforces the main concepts required in your course and offers hundreds of practice exercises to help you succeed. Use Schaum's to shorten your study time--and get your best test scores! Schaum's Outlines – Problem solved.

As the title implies, this book provides an introduction to thermodynamics for students on degree and HND courses in engineering. These courses are placing increased emphasis on business, design, management, and manufacture. As a consequence, the direct class-time for thermodynamics is being reduced and students are encouraged to self learn. This book has been written with this in mind. The text is brief and to the point, with a minimum of mathematical content. Each chapter defines a list of aims and concludes with a short summary. The summary provides an overview of the key words, phrases and equations introduced within the chapter. It is recognized that students see thermodynamics as a problem-solving activity and this is reflected by the emphasis on the modelling of situations. As a guide to problem solving,

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worked examples are included throughout the book. In addition, students are encouraged to work through the problems at the end of each chapter, for which outline solutions are provided. There is a certain timelessness about thermodynamics because the fundamentals do not change. However, there is currently some debate over which sign convention should apply to work entering, or leaving, a thermodynamic system. I have retained the traditional convention of work out of a system being positive. This fits in with the concept of a heat engine as a device that takes in heat and, as a result, produces positive work.

Thermodynamics being one of the basic subjects in all engineering disciplines there are umpteen books on it. The main aim of this one is to make the subject effortless for the students and help them pass the examination with flying colours. For this reason, the text has been kept short and simple and the book provides a heavy dose of solved examples, MCQs, review questions and numerical problems to hone the problem-solving skills. It has been written in such a style that the students of all streams, be it mechanical, chemical, electrical or civil, will find it comprehensible. The book covers the syllabuses of degree classes of most Indian universities. It is designed to serve both levels—the basic as well as applied thermodynamics—to give a new dimension to the learning of thermodynamics.

**Key Features**

- More than 225 Solved Examples
- More than 240 MCQs
- More than 210 Review Questions
- More than 210 Numerical Problems

General Chemistry presents the fundamental concepts of general chemistry in a precise and comprehensive manner for undergraduate students of chemistry and life science at all Indian universities. Adhering strictly to the UGC curriculum, the contents are written in a simple and lucid language enriched with a large number of examples and illustrations. Chemical engineers face the challenge of learning the difficult

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concept and application of entropy and the 2nd Law of Thermodynamics. By following a visual approach and offering qualitative discussions of the role of molecular interactions, Koretsky helps them understand and visualize thermodynamics. Highlighted examples show how the material is applied in the real world. Expanded coverage includes biological content and examples, the Equation of State approach for both liquid and vapor phases in VLE, and the practical side of the 2nd Law. Engineers will then be able to use this resource as the basis for more advanced concepts.

Applied Chemical Engineering Thermodynamics provides the undergraduate and graduate student of chemical engineering with the basic knowledge, the methodology and the references he needs to apply it in industrial practice. Thus, in addition to the classical topics of the laws of thermodynamics, pure component and mixture thermodynamic properties as well as phase and chemical equilibria the reader will find: - history of thermodynamics - energy conservation - intermolecular forces and molecular thermodynamics - cubic equations of state - statistical mechanics. A great number of calculated problems with solutions and an appendix with numerous tables of numbers of practical importance are extremely helpful for applied calculations. The computer programs on the included disk help the student to become familiar with the typical methods used in industry for volumetric and vapor-liquid equilibria calculations.

Engineering Thermodynamics has been designed for students of all branches of engineering specially undergraduate students of Mechanical Engineering. The book will also serve as reference manual for practising engineers. The book has been written in simple language and systematically develops the concepts and principles essential

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for understanding the subject. The text has been supplemented with solved numerical problems, illustrations and question banks. The present book has been divided in five parts: "Thermodynamic Laws and Relations" "Properties of Gases and Vapours" "Thermodynamics Cycles" "Heat Transfer and Heat Exchangers" Annexures Engineering Thermodynamics with Worked Examples Second Edition World Scientific Publishing Company

This book is the solution manual to the textbook "A Modern Course in University Physics". It contains solutions to all the problems in the aforementioned textbook. This solution manual is a good companion to the textbook. In this solution manual, we work out every problem carefully and in detail. With this solution manual used in conjunction with the textbook, the reader can understand and grasp the physics ideas more quickly and deeply. Some of the problems are not purely exercises; they contain extension of the materials covered in the textbook. Some of the problems contain problem-solving techniques that are not covered in the textbook. Request Inspection Copy

A brand new book, FUNDAMENTALS OF CHEMICAL ENGINEERING THERMODYNAMICS makes the abstract subject of chemical engineering thermodynamics more accessible to undergraduate students. The subject is presented through a problem-solving inductive (from specific to general) learning approach, written in a conversational and approachable manner. Suitable for either a one-semester course or two-semester sequence in the subject, this book covers thermodynamics in a complete and mathematically rigorous manner, with an emphasis on solving practical

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engineering problems. The approach taken stresses problem-solving, and draws from best practice engineering teaching strategies. FUNDAMENTALS OF CHEMICAL ENGINEERING THERMODYNAMICS uses examples to frame the importance of the material. Each topic begins with a motivational example that is investigated in context to that topic. This framing of the material is helpful to all readers, particularly to global learners who require big picture insights, and hands-on learners who struggle with abstractions. Each worked example is fully annotated with sketches and comments on the thought process behind the solved problems. Common errors are presented and explained. Extensive margin notes add to the book accessibility as well as presenting opportunities for investigation. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book results from a Special Issue related to the latest progress in the thermodynamics of machines systems and processes since the premonitory work of Carnot. Carnot invented his famous cycle and generalized the efficiency concept for thermo-mechanical engines. Since that time, research progressed from the equilibrium approach to the irreversible situation that represents the general case. This book illustrates the present state-of-the-art advances after one or two centuries of consideration regarding applications and fundamental aspects. The research is moving fast in the direction of economic and environmental aspects. This will probably continue during the coming years. This

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book mainly highlights the recent focus on the maximum power of engines, as well as the corresponding first law efficiency upper bounds.

The Clear, Well-Organized Introduction to Thermodynamics Theory and Calculations for All Chemical Engineering Undergraduate Students This text is designed to make thermodynamics far easier for undergraduate chemical engineering students to learn, and to help them perform thermodynamic calculations with confidence. Drawing on his award-winning courses at Penn State, Dr. Themis Matsoukas focuses on “why” as well as “how.” He offers extensive imagery to help students conceptualize the equations, illuminating thermodynamics with more than 100 figures, as well as 190 examples from within and beyond chemical engineering. Part I clearly introduces the laws of thermodynamics with applications to pure fluids. Part II extends thermodynamics to mixtures, emphasizing phase and chemical equilibrium. Throughout, Matsoukas focuses on topics that link tightly to other key areas of undergraduate chemical engineering, including separations, reactions, and capstone design. More than 300 end-of-chapter problems range from basic calculations to realistic environmental applications; these can be solved with any leading mathematical software. Coverage includes

- Pure fluids, PVT behavior, and basic calculations of enthalpy and entropy
- Fundamental relationships and the calculation of properties from equations of state
- Thermodynamic analysis of chemical processes
- Phase diagrams of binary and simple ternary systems
- Thermodynamics of

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mixtures using equations of state • Ideal and nonideal solutions • Partial miscibility, solubility of gases and solids, osmotic processes • Reaction equilibrium with applications to single and multiphase reactions

Based on a course given to beginning physics, chemistry, and engineering students at the Winterthur Polytechnic Institute, this text approaches the fundamentals of thermodynamics from the viewpoint of continuum mechanics. By describing physical processes in terms of the flow and balance of physical quantities, the book provides a unified approach to hydraulics, electricity, mechanics and thermodynamics. In this way it becomes clear that the entropy is the fundamental property that is transported in thermal processes and that the temperature is its measure. Previous knowledge of thermodynamics is not required, but readers should be familiar with basic electricity, mechanics, and chemistry and should have some knowledge of elementary calculus. Both the theory and applications are included as well as many exercises and solved problems from various fields of science and engineering.

REA's Thermodynamics Problem Solver Each Problem Solver is an insightful and essential study and solution guide chock-full of clear, concise problem-solving gems. Answers to all of your questions can be found in one convenient source from one of the most trusted names in reference solution guides. More useful, more practical, and more informative, these study aids are the best review books and textbook companions available. They're perfect for undergraduate and graduate studies. This highly useful reference provides thorough coverage

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of pressure, work and heat, energy, entropy, first and second laws, ideal gas processes, vapor refrigeration cycles, mixtures, and solutions. For students in engineering, physics, and chemistry.

The laws of thermodynamics have wide ranging practical applications in all branches of engineering. This invaluable textbook covers all the subject matter in a typical undergraduate course in engineering thermodynamics, and uses carefully chosen worked examples and problems to expose students to diverse applications of thermodynamics. This new edition has been revised and updated to include two new chapters on thermodynamic property relations, and the statistical interpretation of entropy. Problems with numerical answers are included at the end of each chapter. As a guide, instructors can use the examples and problems in tutorials, quizzes and examinations. Request Inspection Copy

Heat and Thermodynamics is meant for an introductory course on Heat and Thermodynamics. Emphasis has been given to the fundamentals of thermodynamics. The book uses variety of diagrams, charts and learning aids to enable easy understanding of the s

This book provides a comprehensive and wide-ranging introduction to the fundamental principles of mechanical engineering in a distinct and clear manner. The book is intended for a core introductory course in the area of foundations and applications of mechanical engineering, prescribed for the first-year



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students of all disciplines of engineering. The book develops an intuitive understanding of the basic principles of thermodynamics as well as of the principles governing the conversion of heat into energy. Numerous illustrative examples are provided to fortify these concepts throughout. The book gives the students a feel for how thermodynamics is applied in engineering practice in the areas of heat engines, steam boilers, internal combustion engines, refrigeration and air conditioning, and to devices such as turbines, pumps and compressors. The book also provides a basic understanding of mechanical design, illustrating the principles through a discussion of devices designed for the transmission of motion and power such as couplings, clutches and brakes. No book on basic mechanical engineering is complete without an introduction to materials science. The text covers the treatment of the common engineering materials, highlighting their properties and applications. Finally, the role of lubrication and lubricants in reducing the wear and tear of parts in mechanical systems, is lucidly explained in the concluding chapter. The text features several fully worked-out examples, a fairly large number of numerical problems with answers, end-of-chapter review questions and multiple choice questions, which all enhance the value of the text to the students. Besides the students studying for an engineering degree, this book is also suitable for

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study by the students of AMIE and the students of diploma level courses.

"Bring conceptual clarity and develop the skills to approach any unseen problem, step by step." - HC Verma "Great Book to read and understand! Quality explanations and methodical approach separates this book from the rest. A clear winner in its category." -Review on Amazon "Must have book for every IIT JEE aspirant! There are many solution books available in the market but this book is a class apart. Solutions are explained in detail. In many questions there are extra points which are beneficial for aspirants." - Review on Amazon Written by IITians, foreword by Dr HC Verma and appreciated by students as well as teachers. Two IITian have worked together to provide a high quality Physics problem book to Indian students. It is an indispensable collection of previous 41 years IIT questions and their illustrated solutions for any serious aspirant. The success of this work lies in making the readers capable to solve complex problems using few basic principles. The readers are also asked to attempt variations of the solved problems to help them understand the concepts better. The students can use the book as a readily available mentor for providing hints or complete solutions as per their needs. Key features of the book are: - Concept building by problem solving. The solutions reveals all the critical points. - 1400+

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solved problems from IIT JEE. The book contains all questions and their solutions. - Topic-wise content arrangement to enables IIT preparation with school education. - Promotes self learning. Can be used as a readily available mentor for solutions.

Although the basic theories of thermodynamics are adequately covered by a number of existing texts, there is little literature that addresses more advanced topics. In this comprehensive work the author redresses this balance, drawing on his twenty-five years of experience of teaching thermodynamics at undergraduate and postgraduate level, to produce a definitive text to cover thoroughly, advanced syllabuses. The book introduces the basic concepts which apply over the whole range of new technologies, considering: a new approach to cycles, enabling their irreversibility to be taken into account; a detailed study of combustion to show how the chemical energy in a fuel is converted into thermal energy and emissions; an analysis of fuel cells to give an understanding of the direct conversion of chemical energy to electrical power; a detailed study of property relationships to enable more sophisticated analyses to be made of both high and low temperature plant and irreversible thermodynamics, whose principles might hold a key to new ways of efficiently covering energy to power (e.g. solar energy, fuel cells). Worked examples are included in most of the chapters, followed by

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exercises with solutions. By developing thermodynamics from an explicitly equilibrium perspective, showing how all systems attempt to reach a state of equilibrium, and the effects of these systems when they cannot, the result is an unparalleled insight into the more advanced considerations when converting any form of energy into power, that will prove invaluable to students and professional engineers of all disciplines.

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