

Where To Download
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This text aims to present
the key topics in

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thermodynamics in an accessible manner, using a physical intuitive approach rather than a highly mathematical one. Over 1000 illustrations are used to illustrate the

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topics, and the worked examples are also illustrated with sketches and process diagrams. This textbook provides an alternative, inductive treatment of traditional

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Engineering

Thermodynamics, e.g.

energy and its

transformations in

engineering systems, and

introduces the notion of

eXergy. The book begins

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with energy methods developed in mechanics and transitions to thermodynamics by introducing both 1st and 2nd Laws of Thermodynamics immediately, incorporating

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more-advanced concepts using practical applications. This methodology continues throughout the text, wherein consideration of a specific example leads to

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general conclusions. At the same time, the author introduces exergy, also called "Availability," a measure of the potential of a substance to produce useful mechanical work in

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being brought from its current state to the conditions of the local environment. The book facilitates students' understanding with workshop problem

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statements and guided spreadsheet. It is appropriate for a sophomore- or junior-level first course in thermodynamics and is restricted to “simple

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compressible substances”
with no formal chemical
reaction development.
Mechanical engineering
applications are the
primary target, where
several follow-up courses

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would follow (fluid mechanics, heat transfer, and a 2nd thermos course). Civil or electrical engineering students could benefit from just this course, and chemical

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engineering programs could develop chemically reacting and non-ideal applications in follow-up courses.

Thermodynamics Seventh Edition covers the basic

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principles of
thermodynamics while
presenting a wealth of
real-world engineering
examples so students get a
feel for how
thermodynamics is applied

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in engineering practice. This text helps students develop an intuitive understanding of thermodynamics by emphasizing the physics and physical arguments.

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Cengel/Boles explore the various facets of thermodynamics through careful explanations of concepts and its use of numerous practical examples and figures,

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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

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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

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Equation Solver (EES) software. McGraw-Hill's new Connect is available to students and instructors. Connect is a powerful, web-based assignment management

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system that makes creating and grading assignments easy for instructors and learning convenient for students. It saves time and makes learning for students accessible

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anytime, anywhere. With Connect, instructors can easily manage assignments, grading, progress, and students receive instant feedback from assignments and practice problems.

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Now in a new edition, this book continues to set the standard for teaching readers how to be effective problem solvers, emphasizing the authors's signature methodologies

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that have taught over a half million students worldwide. This new edition provides a student-friendly approach that emphasizes the relevance of thermodynamics

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principles to some of the most critical issues of today and coming decades, including a wealth of integrated coverage of energy and the environment,

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biomedical/bioengineering,
as well as emerging
technologies.

Visualization skills are
developed and basic
principles demonstrated
through a complete set of

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animations that have been
interwoven throughout.

Fundamentals of Thermal-
fluid Sciences

Introduction to Food
Engineering

An Ultralow Temperature

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Phenomenon

Loose Leaf for

Thermodynamics: An

Engineering Approach

Biothermodynamics

Best-selling introductory chemical
engineering book - now updated with

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- far more coverage of biotech, nanotech, and green engineering •
- Thoroughly covers material balances, gases, liquids, and energy balances.
- Contains new biotech and bioengineering problems throughout.
- Adds new examples and homework on

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nanotechnology, environmental engineering, and green engineering.

- All-new student projects chapter.
- Self-assessment tests, discussion problems, homework, and glossaries in each chapter.

Basic Principles and Calculations in Chemical Engineering,

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8/e, provides a complete, practical, and student-friendly introduction to the principles and techniques of modern chemical, petroleum, and environmental engineering. The authors introduce efficient and consistent methods for solving

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problems, analyzing data, and conceptually understanding a wide variety of processes. This edition has been revised to reflect growing interest in the life sciences, adding biotechnology and bioengineering problems and examples throughout. It

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also adds many new examples and homework assignments on nanotechnology, environmental, and green engineering, plus many updates to existing examples. A new chapter presents multiple student projects, and several chapters from the previous

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edition have been condensed for greater focus. This text's features include:

- Thorough introductory coverage, including unit conversions, basis selection, and process measurements.
- Short chapters supporting flexible, modular learning.

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- Consistent, sound strategies for solving material and energy balance problems.
- Key concepts ranging from stoichiometry to enthalpy.
- Behavior of gases, liquids, and solids.
- Many tables, charts, and reference appendices.
- Self-assessment tests,

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thought/discussion problems, homework problems, and glossaries in each chapter.

Original edition: Munson, Young, and Okiishi in 1990.

The importance of practical training in engineering education, as emphasized

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by the AICTE, has motivated the authors to compile the work of various engineering laboratories into a systematic Practical laboratory book. The manual is written in a simple language and lucid style. It is hoped that students will understand the

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manual without any difficulty and perform the experiments.

Thermodynamics is the science that describes the behavior of matter at the macroscopic scale, and how this arises from individual molecules. As such, it is a subject of profound practical and

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fundamental importance to many science and engineering fields. Despite extremely varied applications ranging from nanomotors to cosmology, the core concepts of thermodynamics such as equilibrium and entropy are the same across all disciplines. A

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Conceptual Guide to Thermodynamics serves as a concise, conceptual and practical supplement to the major thermodynamics textbooks used in various fields. Presenting clear explanations of the core concepts, the book aims to improve fundamental

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understanding of the material, as well as homework and exam performance.

Distinctive features include:

Terminology and Notation Key: A universal translator that addresses the myriad of conventions, terminologies, and notations found across the major

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thermodynamics texts. Content Maps:
Specific references to each major
thermodynamic text by section and
page number for each new concept that
is introduced. Helpful Hints and Don't
Try Its: Numerous useful tips for
solving problems, as well as warnings

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of common student pitfalls. Unique Explanations: Conceptually clear, mathematically fairly simple, yet also sufficiently precise and rigorous. A more extensive set of reference materials, including older and newer editions of the major textbooks, as well

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as a number of less commonly used titles, is available online at <http://www.conceptualthermo.com>. Undergraduate and graduate students of chemistry, physics, engineering, geosciences and biological sciences will benefit from this book, as will

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students preparing for graduate school entrance exams and MCATs.

EBOOK: Fundamentals of Thermal-Fluid Sciences (SI units)

Thermodynamics

The Little Book of Thermofluids

Volume 2 Design and Operations

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Understanding Thermodynamics
This supplement contains all the data and formulae necessary to complete a thermodynamics paper in a closed-book examination where students are not allowed access to their original textbooks, but can use

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tables as a reference source.

Through ten editions, Fox and McDonald's Introduction to Fluid Mechanics has helped students understand the physical concepts, basic principles, and analysis methods of fluid mechanics. This

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market-leading textbook provides a balanced, systematic approach to mastering critical concepts with the proven Fox-McDonald solution methodology. In-depth yet accessible chapters present governing equations, clearly state

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assumptions, and relate mathematical results to corresponding physical behavior. Emphasis is placed on the use of control volumes to support a practical, theoretically-inclusive problem-solving approach to the

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subject. Each comprehensive chapter includes numerous, easy-to-follow examples that illustrate good solution technique and explain challenging points. A broad range of carefully selected topics describe how to apply the governing

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equations to various problems, and explain physical concepts to enable students to model real-world fluid flow situations. Topics include flow measurement, dimensional analysis and similitude, flow in pipes, ducts, and open channels, fluid machinery,

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and more. To enhance student learning, the book incorporates numerous pedagogical features including chapter summaries and learning objectives, end-of-chapter problems, useful equations, and design and open-ended problems

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that encourage students to apply fluid mechanics principles to the design of devices and systems.

THE FOURTH EDITION IN SI UNITS of Fundamentals of Thermal-Fluid Sciences presents a balanced coverage of thermodynamics, fluid

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mechanics, and heat transfer packaged in a manner suitable for use in introductory thermal sciences courses. By emphasizing the physics and underlying physical phenomena involved, the text gives students practical examples that allow

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development of an understanding of the theoretical underpinnings of thermal sciences. All the popular features of the previous edition are retained in this edition while new ones are added. THIS EDITION FEATURES: A New Chapter on

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Power and Refrigeration Cycles The new Chapter 9 exposes students to the foundations of power generation and refrigeration in a well-ordered and compact manner. An Early Introduction to the First Law of Thermodynamics (Chapter 3) This

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chapter establishes a general understanding of energy, mechanisms of energy transfer, and the concept of energy balance, thermo-economics, and conversion efficiency. Learning Objectives
Each chapter begins with an

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overview of the material to be covered and chapter-specific learning objectives to introduce the material and to set goals.

Developing Physical Intuition A special effort is made to help students develop an intuitive feel for

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underlying physical mechanisms of natural phenomena and to gain a mastery of solving practical problems that an engineer is likely to face in the real world. New Problems A large number of problems in the text are modified

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and many problems are replaced by new ones. Some of the solved examples are also replaced by new ones. Upgraded Artwork Much of the line artwork in the text is upgraded to figures that appear more three-dimensional and realistic.

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MEDIA RESOURCES: Limited Academic Version of EES with selected text solutions packaged with the text on the Student DVD. The Online Learning Center (www.mheducation.asia/olc/cengelFTFS4e) offers online resources for

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instructors including PowerPoint®
lecture slides, and complete
solutions to homework problems.
McGraw-Hill's Complete Online
Solutions Manual Organization
System (<http://cosmos.mhhe.com/>)
allows instructors to streamline the

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creation of assignments, quizzes, and tests by using problems and solutions from the textbook, as well as their own custom material.

Food engineering is a required class in food science programs, as outlined by the Institute for Food

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Technologists (IFT). The concepts and applications are also required for professionals in food processing and manufacturing to attain the highest standards of food safety and quality. The third edition of this successful textbook succinctly

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presents the engineering concepts and unit operations used in food processing, in a unique blend of principles with applications. The authors use their many years of teaching to present food engineering concepts in a logical progression

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that covers the standard course curriculum. Each chapter describes the application of a particular principle followed by the quantitative relationships that define the related processes, solved examples, and problems to test

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understanding. The subjects the authors have selected to illustrate engineering principles demonstrate the relationship of engineering to the chemistry, microbiology, nutrition and processing of foods. Topics incorporate both traditional and

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contemporary food processing
operations.

Loose Leaf Version for
Thermodynamics: An Engineering
Approach 7E

Quantum Computation and
Quantum Information

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The John Zink Hamworthy

Combustion Handbook

Chemical Engineering Design

Thermal Energy

Over the past several
decades there has been
increasing research interest

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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

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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

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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.

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The rigorous treatment of combustion can be so complex that the kinetic variables, fluid turbulence factors, luminosity, and other factors cannot be defined well enough to find realistic

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solutions. Simplifying the processes, The Coen & Hamworthy Combustion Handbook provides practical guidance to help you make informed choices about fuels, burne

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A practical, illustrated guide to thermal science A practical, illustrated guide to thermal science Written by a subject-matter expert with many years of academic and industrial experience,

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Thermal Science provides detailed yet concise coverage of thermodynamics, fluid mechanics, and heat transfer. The laws of thermodynamics are

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discussed with emphasis on their real-world applications. This comprehensive resource clearly presents the flow-governing equations of fluid mechanics, including those of mass, linear momentum,

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and energy conservation.
Flow behavior through
turbomachinery components
is also addressed. The three
modes of heat
transfer--conduction,
convection, and

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radiation--are described
along with practical
applications of each.

Thermal Science covers:

Properties of pure
substances and ideal gases

First and second laws of

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thermodynamics Energy
conversion by cycles Power-
absorbing cycles Gas power
cycles Flow-governing
equations External and
internal flow structures
Rotating machinery fluid

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mechanics Variable-
geometry turbomachinery
stages Prandtl-Meyer flow
Internal flow, friction, and
pressure drop Fanno flow
process for a viscous flow
field Rayleigh flow Heat

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conduction and convection
Heat exchangers Transfer by
radiation Instructor material
available for download from
companion website
Chemical Engineering
Design, Second Edition,

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deals with the application of chemical engineering principles to the design of chemical processes and equipment. Revised throughout, this edition has been specifically developed

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for the U.S. market. It provides the latest US codes and standards, including API, ASME and ISA design codes and ANSI standards. It contains new discussions of conceptual plant design,

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flowsheet development, and revamp design; extended coverage of capital cost estimation, process costing, and economics; and new chapters on equipment selection, reactor design,

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and solids handling processes. A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting data, and Excel spreadsheet

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calculations, plus over 150
Patent References for
downloading from the
companion website.
Extensive instructor
resources, including 1170
lecture slides and a fully

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worked solutions manual are available to adopting instructors. This text is designed for chemical and biochemical engineering students (senior undergraduate year, plus

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appropriate for capstone design courses where taken, plus graduates) and lecturers/tutors, and professionals in industry (chemical process, biochemical, pharmaceutical,

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petrochemical sectors). New to this edition: Revised organization into Part I: Process Design, and Part II: Plant Design. The broad themes of Part I are flowsheet development,

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economic analysis, safety and environmental impact and optimization. Part II contains chapters on equipment design and selection that can be used as supplements to a lecture

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course or as essential references for students or practicing engineers working on design projects. New discussion of conceptual plant design, flowsheet development and revamp

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design Significantly
increased coverage of capital
cost estimation, process
costing and economics New
chapters on equipment
selection, reactor design and
solids handling processes

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New sections on
fermentation, adsorption,
membrane separations, ion
exchange and
chromatography Increased
coverage of batch
processing, food,

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pharmaceutical and
biological processes All
equipment chapters in Part II
revised and updated with
current information Updated
throughout for latest US
codes and standards,

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including API, ASME and ISA
design codes and ANSI
standards Additional worked
examples and homework
problems The most complete
and up to date coverage of
equipment selection 108

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realistic commercial design projects from diverse industries A rigorous pedagogy assists learning, with detailed worked examples, end of chapter exercises, plus supporting

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data and Excel spreadsheet
calculations plus over 150
Patent References, for
downloading from the
companion website
Extensive instructor
resources: 1170 lecture

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slides plus fully worked
solutions manual available to
adopting instructors
Heat Transfer
The Slipcover for The John
Zink Hamworthy Combustion
Handbook

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A Conceptual Guide to
Thermodynamics
Fundamentals for Power,
Marine & Industrial
Applications
Fundamentals of
Thermodynamics

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CD-ROM contains: the limited academic version of Engineering equation solver(EES) with homework problems.

Combustion Engineering, Second Edition maintains the same goal as the original: to present the fundamentals of combustion

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science with application to today's energy challenges. Using combustion applications to reinforce the fundamentals of combustion science, this text provides a uniquely accessible introduction to combustion for undergraduate students, first-year

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**graduate students, and
professionals in the workplace.
Combustion is a critical issue
impacting energy utilization,
sustainability, and climate change.
The challenge is to design safe and
efficient combustion systems for
many types of fuels in a way that**

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protects the environment and enables sustainable lifestyles. Emphasizing the use of combustion fundamentals in the engineering and design of combustion systems, this text provides detailed coverage of gaseous, liquid and solid fuel combustion, including focused

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coverage of biomass combustion, which will be invaluable to new entrants to the field. Eight chapters address the fundamentals of combustion, including fuels, thermodynamics, chemical kinetics, flames, detonations, sprays, and solid fuel combustion mechanisms.

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Eight additional chapters apply these fundamentals to furnaces, spark ignition and diesel engines, gas turbines, and suspension burning, fixed bed combustion, and fluidized bed combustion of solid fuels. Presenting a renewed emphasis on fundamentals and

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**updated applications to illustrate the latest trends relevant to combustion engineering, the authors provide a number of pedagogic features, including:
Numerous tables with practical data and formulae that link combustion fundamentals to engineering**

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**practice Concise presentation of
mathematical methods with
qualitative descriptions of their use
Coverage of alternative and
renewable fuel topics throughout
the text Extensive example
problems, chapter-end problems,
and references These features and**

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the overall fundamentals-to-practice nature of this book make it an ideal resource for undergraduate, first level graduate, or professional training classes. Students and practitioners will find that it is an excellent introduction to meeting the crucial challenge of engineering

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sustainable combustion systems in a cost-effective manner. A solutions manual and additional teaching resources are available with qualifying course adoption.

The ninth edition of Thermodynamics and Heat Power contains a revised sequence of

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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

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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

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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

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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

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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.

The book details sources of thermal

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energy, methods of capture, and applications. It describes the basics of thermal energy, including measuring thermal energy, laws of thermodynamics that govern its use and transformation, modes of thermal energy, conventional processes, devices and materials,

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and the methods by which it is transferred. It covers 8 sources of thermal energy: combustion, fusion (solar) fission (nuclear), geothermal, microwave, plasma, waste heat, and thermal energy storage. In each case, the methods of production and capture and its

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uses are described in detail. It also discusses novel processes and devices used to improve transfer and transformation processes.

Fox and McDonald's Introduction to Fluid Mechanics

**Engineering Practical Book – Vol-1
Sources, Recovery, and**

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Applications

Principles and Applications

Fundamentals of Chemical

**Engineering Thermodynamics, SI
Edition**

***Thermodynamics, An
Engineering Approach, covers
the basic principles of***

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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

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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

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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

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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

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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

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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.

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***First-ever comprehensive
introduction to the major new
subject of quantum computing
and quantum information.***

***Physics of Cryogenics: An
Ultralow Temperature
Phenomenon discusses the***

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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

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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

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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

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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

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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

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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

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approaches

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

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Mecânica dos Fluidos

The Coen & Hamworthy

Combustion Handbook

Munson, Young and Okiishi's

Fundamentals of Fluid

Mechanics

Basic Principles and

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***Calculations in Chemical
Engineering***

***A Practical Approach with EES
CD***

Esta obra apresenta de forma clara e abrangente os conceitos físicos da matéria, desenvolvendo o conteúdo

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até as aplicações na engenharia. Isso prova aos alunos a importância prática de dominar os fundamentos da mecânica de fluidos. A grande variedade de tópicos oferece aos professores muitas opções para a sua disciplina e é um recurso útil para os alunos muito depois da formatura.

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Despite the length of time it has been around, its importance, and vast amounts of research, combustion is still far from being completely understood. Issues regarding the environment, cost, and fuel consumption add further complexity, particularly in the process and power

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*generation industries. Dedicated to
advancing the art and science of
industr*

*Clear treatment of systems and first
and second laws of thermodynamics
features informal language, vivid and
lively examples, and fresh
perspectives. Excellent supplement*

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*for undergraduate science or
engineering class.*

*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*

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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*

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