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 Fluid and Thermodynamics
 Fundamentals of Thermodynamics
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 The Physics of Biological Engines (Volume 1)
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Borgnakke's Fundamentals of Thermodynamics John Wiley & Sons

Tough Test Questions? Missed Lectures? Not Enough Time? Fortunately, there's Schaum's. This all-in-one-package includes more than 600 fully solved problems, examples, and practice exercises to sharpen your problem-solving skills. Plus, you will have access to 20 detailed videos featuring instructors who explain the most commonly tested problems--it's just like having your own virtual tutor! You'll find everything you need to build confidence, skills, and knowledge for the highest score possible. 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. This Schaum's Outline gives you 622 fully solved problems Extra practice on topics such as buoyancy and flotation, complex pipeline systems, fluid machinery, flow in open channels, and more Support for all the major textbooks for fluid mechanics and hydraulics courses Fully compatible with your classroom text, Schaum's highlights all the important facts you need to know. Use Schaum's to shorten your study time--and get your best test scores! Schaum's Outlines--Problem Solved.

Graphical Thermodynamics and Ideal Gas Power Cycles Springer

HANDBOOK OF BIOMASS VALORIZATION FOR INDUSTRIAL APPLICATIONS The handbook provides a comprehensive view of cutting-edge research on biomass valorization, from advanced fabrication methodologies through useful derived materials, to current and potential application sectors. Industrial sectors, such as food, textiles, petrochemicals and pharmaceuticals, generate massive amounts of waste each year, the disposal of which has become a major issue worldwide. As a result, implementing a circular economy that employs sustainable practices in waste management is critical for any industry. Moreover, fossil fuels, which are the primary sources of fuel in the transportation sector, are also being rapidly depleted at an alarming rate. Therefore, to combat these global issues without increasing our carbon footprint, we must look for renewable resources to produce chemicals and biomaterials. In that context, agricultural waste materials are gaining popularity as cost-effective and abundantly available alternatives to fossil resources for the production of a variety of value-added products, including renewable fuels, fuel components, and fuel additives. Handbook of Biomass Valorization for Industrial Applications investigates current and emerging feedstocks, as well as provides in-depth technical information on advanced catalytic processes and technologies that enable the development of all possible alternative energy sources. The 22 chapters of this book comprehensively cover the valorization of agricultural wastes and their various uses in value-added applications like energy, biofuels, fertilizers, and wastewater treatment. Audience The book is intended for a very broad audience working in the fields of materials sciences, chemical engineering, nanotechnology, energy, environment, chemistry, etc. This book will be an invaluable reference source for the libraries in universities and industrial institutions, government and independent institutes, individual research groups, and scientists working in the field of valorization of biomass.

An Introduction Momentum Press

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>.

Handbook of Biomass Valorization for Industrial Applications Elsevier

This book includes the proceedings of the 19th International Scientific Conference "Energy Management of Municipal Transportation Facilities and Transport EMMFT 2017", which was held in Khabarovsk, Russia on 10-13 April 2017. The book presents the research findings of scientists working at universities in the Far Eastern, Siberian and Ural Federal Districts of Russia, and of Serbia, which are unique regions notable for sustainably operating complex transport infrastructures in severe climatic and geographic environments. It also offers practical insights into transportation operation under such conditions. The book discusses the experiences of colleagues from Slovenia, Ukraine and Latvia in the development of transport infrastructure and construction of transport facilities and features and includes the results of a wide range of studies, such as managing multimodal transportation, improving the efficiency of locomotives, electric locomotives, traction substations, electrical substations, relay protection and automation devices, and power-factor correction units. It addresses topics like renewable energy sources, problems of the mathematical and simulation modelling of electromagnetic processes of electrical power objects and systems, aspects of cost reduction for fuel-and-power resources, theoretical aspects of energy management, development of transport infrastructure, modern organizational and technological solutions in construction, new approaches in the field of management, analysis and monitoring in transport sector. Comprising 142 high-quality articles covering a wide range of topics, these proceedings are of interest to anyone engaged in transport engineering, electric power systems, energy management, construction and operation of transport infrastructure buildings and facilities.

Hydrogen, Batteries and Fuel Cells John Wiley & Sons

Intended as a textbook for "applied" or engineering thermodynamics, or as a reference for practicing engineers, the book uses extensive in-text, solved examples and computer simulations to cover the basic properties of thermodynamics. Pure substances, the first and second laws, gases, psychrometrics, the vapor, gas and refrigeration cycles, heat transfer, compressible flow, chemical reactions, fuels, and more are presented in detail and enhanced with practical applications. This version presents the material using SI Units and has ample material on SI conversion, steam tables, and a Mollier diagram. A CD-ROM, included with the print version of the text, includes a fully functional version of QuickField (widely used in industry), as well as numerous demonstrations and simulations with MATLAB, and other third party software.

An Introduction to Thermodynamics and Statistical Mechanics Academic Press

In this book, an almost new approach to modern thermodynamics has been applied. One or more useful qualitative discussion statements have been extracted from each equation. These and other important statements were numbered and their titles were situated in an index titled "Hilal and Others' statements, definitions and rules." This ensures very quick obtaining of the required statements, rules, definitions, equations, and their theoretical base that will ease readers qualitative discussions and calculations.

International Scientific Conference Energy Management of Municipal Transportation Facilities and Transport EMMFT 2017 John Wiley & Sons

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Schaum's Outlines-Problem Solved.

Fluid and Thermodynamics CRC Press

Thermodynamic and Transport Properties This paperback book/disk set provides a comprehensive collection of thermodynamic tables and transportation properties in an easily accessible format. Featuring both English and SI units, the program features new substances such as the latest refrigerants and fuels. A variety of combinations of properties can be used as input for the disk calculations. This easy-to-use, mouse-driven program offers graphing and printing capabilities. This Outstanding Resource: Features full thermodynamic tables for 25 substances including: water, various refrigerants, cryogenic fluids, and hydrocarbons. Tables include numerical values for equation of state constants and virial coefficients. Highlights transport properties for a variety of gases, liquids, and solids. Covers new substances, such as refrigerants (R-134a, R-123, and R-152a) and fuels (methane, ethane, and ethylene). Contains ideal gas tables with thermochemical properties and equilibrium constants. Includes tables with numerical values for equation of state constants and virial coefficients. Minimum Hardware Requirements: IBM compatible 386 (486 DX or better recommended) VGA graphics Windows 3.1 or later 4 MB RAM 5 MB of available disk space

Fundamentals of Thermodynamics John Wiley & Sons Incorporated

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 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.

Fundamentals Of Thermodynamics, 7Th Ed, Isv John Wiley & Sons

This text blends traditional introductory physics topics with an emphasis on human applications and an expanded coverage of modern physics topics, such as the existence of atoms and the conversion of mass into energy. Topical coverage is combined with the author's lively, conversational writing style, innovative features, the direct and clear manner of presentation, and the emphasis on problem solving and practical applications.

The Physics of Biological Engines (Volume 1) Cengage Learning

The field's leading textbook for more than three decades, Fundamentals of Engineering Thermodynamics offers a comprehensive introduction to essential principles and applications in the context of engineering. Now in its Tenth Edition, this book retains its characteristic rigor and systematic approach to thermodynamics with enhanced pedagogical features that aid in student comprehension. Detailed appendices provide instant reference; chapter summaries review terminology, equations, and key concepts; and updated data and graphics increase student engagement while enhancing understanding. Covering classical thermodynamics with a focus on practical applications, this book provides a basic foundational skillset applicable across a variety of engineering fields. Worked examples demonstrate the appropriate use of new formulas, while clarifying the proper approach to generalized problems of a relevant nature. Going beyond the usual guidance in the basics of the field, this book is designed as comprehensive preparation for more advanced study in students' engineering field of choice.

Aquatic Fitness Professional Manual-6th Edition Springer

Materials Science and Engineering: An Introduction promotes student understanding of the three primary types of materials (metals, ceramics, and polymers) and composites, as well as the relationships that exist between the structural elements of materials and their properties.

A Computer Approach (SI Units Version) John Wiley & Sons

This book provides a comprehensive basics-to-advanced course in an aero-thermal science vital to the design of engines for either type of craft. The text classifies engines powering aircraft and single/multi-stage rockets, and derives performance parameters for both from basic aerodynamics and thermodynamics laws. Each type of engine is analyzed for optimum performance goals, and mission-appropriate engines selection is explained. Fundamentals of Aircraft and Rocket Propulsion provides information about and analyses of: thermodynamic cycles of shaft engines (piston,

turboprop, turboshaft and propfan); jet engines (pulsejet, pulse detonation engine, ramjet, scramjet, turbojet and turbofan); chemical and non-chemical rocket engines; conceptual design of modular rocket engines (combustor, nozzle and turbopumps); and conceptual design of different modules of aero-engines in their design and off-design state. Aimed at graduate and final-year undergraduate students, this textbook provides a thorough grounding in the history and classification of both aircraft and rocket engines, important design features of all the engines detailed, and particular consideration of special aircraft such as unmanned aerial and short/vertical takeoff and landing aircraft. End-of-chapter exercises make this a valuable student resource, and the provision of a downloadable solutions manual will be of further benefit for course instructors.

Combustion Thermodynamics and Dynamics Cengage Learning

Modelling and simulation in acoustics is currently gaining importance. In fact, with the development and improvement of innovative computational techniques and with the growing need for predictive models, an impressive boost has been observed in several research and application areas, such as noise control, indoor acoustics, and industrial applications. This led us to the proposal of a special issue about "Modelling, Simulation and Data Analysis in Acoustical Problems", as we believe in the importance of these topics in modern acoustics' studies. In total, 81 papers were submitted and 33 of them were published, with an acceptance rate of 37.5%. According to the number of papers submitted, it can be affirmed that this is a trending topic in the scientific and academic community and this special issue will try to provide a future reference for the research that will be developed in coming years.

Ideal Gas Thermodynamics in Brief Wiley

Presents a comprehensive and rigorous treatment of thermodynamics while retaining an engineering perspective and, in so doing, provides a resource with considerable flexibility for the inclusion of material on thermodynamics. Updated for this Third Edition, it reflects an increased emphasis on environmental issues and a recognition of the steadily growing use of computers in the study of thermodynamics and solution of thermodynamic problems. Contains numerous examples, as well as problems at the end of each chapter that are carefully sequenced to reflect the subject matter.

Women in Nanotechnology Tata McGraw-Hill Education

Now in a new edition, this book continues to set the standard for teaching readers how to be effective problem solvers, emphasizing the authors' signature methodologies that have taught over a half million students worldwide. This new edition provides a student-friendly approach that emphasizes the relevance of thermodynamics principles to some of the most critical issues of today and coming decades, including a wealth of integrated coverage of energy and the environment, biomedical/bioengineering, as well as emerging technologies. Visualization skills are developed and basic principles demonstrated through a complete set of animations that have been interwoven throughout.

Thermodynamics, Mitigation and Sustainability Cambridge University Press

The representation of abstract data and ideas can be a difficult and tedious task to handle when learning new concepts; however, the advances of emerging technology have allowed for new methods of representing such conceptual data. The Handbook of Research on Maximizing Cognitive Learning through Knowledge Visualization focuses on the use of visualization technologies to assist in the process of better comprehending scientific concepts, data, and applications. Highlighting the utilization of visual power and the roles of sensory perceptions, computer graphics, animation, and digital storytelling, this book is an essential reference source for instructors, engineers, programmers, and software developers interested in the exchange of information through the visual depiction of data.

Metabolism and Medicine Jones & Bartlett Learning

Thermal Analysis and Thermodynamic Properties of Solids, Second Edition covers foundational principles and recent updates in the field, presenting an authoritative overview of theoretical knowledge and practical applications across several fields. Since the first edition of this book was published, large developments have occurred in the theoretical understanding of—and subsequent ability to assess and apply—principles of thermal analysis. Drawing on the knowledge of its expert author, this second edition provides fascinating insight for both new and experienced students, researchers, and industry professionals whose work is influenced or impacted by thermo analysis principles and tools. Part 1 provides a detailed introduction and guide to theoretical aspects of thermal analysis and the related impact of thermodynamics. Key terminology and concepts, the fundamentals of thermophysical examinations, thermostatics, equilibrium background, thermotics, reaction kinetics and models, thermokinetics and the exploitation of fractals are all discussed. Part 2 then goes on to discuss practical applications of this theoretical information to topics such as crystallization kinetics and glass states, thermodynamics in superconductor models, and climate change. Includes fully updated as well as new chapters on kinetic phase diagrams, thermokinetics in DTA experiments, and crystallization kinetics Discusses the influence of key derivatives such as thermostatics, thermodynamics, thermotics, and thermokinetics Helps readers understand and describe reaction kinetics in solids, both in terms of simplified descriptions of the reaction mechanism models and averaged descriptions using fractals

An Introduction to Mechanical Engineering Wiley

Thermal systems play an increasingly symbiotic role alongside mechanical systems in varied applications spanning materials processing, energy conversion, pollution, aerospace, and automobiles. Responding to the need for a flexible, yet systematic approach to designing thermal systems across such diverse fields, Design and Optimization of Thermal

Fundamentals of Classical Thermodynamics Cambridge University Press

This new edition of Borgnakke's Fundamentals of Thermodynamics continues to offer a comprehensive and rigorous treatment of classical thermodynamics, while retaining an engineering perspective. With concise, applications-oriented discussion of topics and self-test problems, this text encourages students to monitor their own learning. This classic text provides a solid foundation for subsequent studies in fields such as fluid mechanics, heat transfer and statistical thermodynamics, and prepares students to effectively apply thermodynamics in the practice of engineering.

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