

C P Arora Thermodynamics Engineering

Power Plant Engineering
 Engineering Thermodynamics, 5e
 Journal of the Indian Institute of Science
 Fluid Machinery (Hydraulic Machines)
 A HEAT TRANSFER TEXTBOOK
 Thermodynamics
 Bulletin of the Institution of Engineers (India).
 THERMODYNAMICS, MECHANICS, THEORY OF MACHINES, STRENGTH OF MATERIALS AND FLUID DYNAMICS, Third Edition
 Cold Storage, Controlled Atmosphere Storage, Modified Atmosphere Storage
 Advances in Manufacturing and Industrial Engineering
 Fundamental and Advanced Topics
 Refrigeration and Air Conditioning
 Engineering Materials
 A Brief History of Mechanical Engineering
 Refrigeration and Air Conditioning
 Engineering Thermodynamics
 Thermodynamics and Thermal Engineering
 Journal of the Institution of Engineers (India).
 Engineering Thermodynamics
 The Mauryas Revisited
 An Engineering Approach
 Refrigeration and Air Conditioning
 Select Proceedings of ICAPIE 2019
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 Engineering Thermodynamics
 Introduction to CHEMICAL ENGINEERING THERMODYNAMICS
 FUNDAMENTALS OF MECHANICAL ENGINEERING
 7th New Delhi World Book Fair, 7-17 February 1986
 Listening, Speaking, Reading, Writing
 Thermodynamics
 Engineering Thermodynamics
 Basic And Applied Thermodynamics 2/E
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 Applied Thermodynamics
 Refrigeration and Air Conditioning
 Engineering Practical Book – Vol-1
 Applied Mechanics Reviews
 Chemical Engineering Division
 Advances in Industrial and Production Engineering

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THOMAS SYDNEE

Power Plant Engineering Tata McGraw-Hill Education
 Thermodynamics And Thermal Engineering, A Core Text In SI Units, Meets The Complete Requirements Of The Students Of Mechanical Engineering In All Universities. Ultimately, It Aims At Aiding The Students Genuinely Understand The Basic Principles Of Thermodynamics And Apply Those Concepts To Practical Problems Confidently. It Provides A Clear And Detailed Exposition Of Basic Principles Of Thermodynamics. Concepts Like Enthalpy, Entropy, Reversibility, Availability Are Presented In Depth And In A Simple Manner. Important Applications Of Thermodynamics Like Various Engineering Cycles And Processes Are Explained In Detail. Introduction To Latest Topics Are Enclosed At The End. Each Topic Is Further Supplemented With Solved Problems Including Problems From Gate, IES Exams, Objective Questions Along With Answers, Review Questions And Exercise Problems Along With Answers For An In-depth Understanding Of The Subject.
Engineering Thermodynamics, 5e Tata McGraw-Hill Education

Low-temperature technologies include the area of refrigeration and cryogenics. Since the beginning of theoretical developments and practical application, these technologies become a part of our life. Low temperatures have found application in almost all branches of industries as well as in households. These systems can be of very small capacity (few watts) up to hundreds of megawatts. In order to develop any of the technologies for successful practical application, very intensive theoretical and experimental research should be conducted. This book provides the reader with a comprehensive overview of the latest developments, perspectives, and feasibility of new low-temperature technologies and improvements of existing systems, equipment, and evaluation methods.

Springer Nature

Foundation of Mechanical Engineering is solely written with the view to help B.E. I year students to master the difficult concepts. Needless to emphasise, this new book has been designed a self-learning capsule. With this aim in view, the material has been organised in a logical order and lots of solved problems and line diagrams have been incorporated to enable students to thoroughly master of the subject. It is believed that this book, solely for B.E. I year students of all branches of

Engineering, will captivate the attention of senior students as well as teachers.

Journal of the Indian Institute of Science CRC Press

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.

Fluid Machinery (Hydraulic Machines) Tata McGraw-Hill Education

Written with the first year engineering students of undergraduate level in mind, the well-designed

textbook, now in its Third Edition, explains the fundamentals of mechanical engineering in the area of thermodynamics, mechanics, theory of machines, strength of materials and fluid dynamics. As these subjects form a basic part of an engineer's education, this text is admirably suited to meet the needs of the common course in mechanical engineering prescribed in the curricula of almost all branches of engineering. This revised edition includes a new chapter on 'Fluid Dynamics' to meet the course requirement. Key Features • Presents an introduction to basic mechanical engineering topics required by all engineering students in their studies. • Includes a series of objective type question (True and False, Fill in the Blanks and Multiple Choice Questions) with explanatory answers to help students in preparing for competitive examinations. • Provides a large number of solved problems culled from the latest university and competitive examination papers which help in understanding theory.

A HEAT TRANSFER TEXTBOOK PHI Learning Pvt. Ltd.

This book comprises the select proceedings of the 2nd International Conference on Future Learning Aspects of Mechanical Engineering (FLAME) 2020. In particular, this volume discusses different topics of industrial and production engineering such as sustainable manufacturing processes, logistics, Industry 4.0 practices, circular economy, lean six sigma, agile manufacturing, additive manufacturing, IoT and Big Data in manufacturing, 3D printing, simulation, manufacturing management and automation, surface roughness, multi-objective optimization and modelling for production processes, developments in casting, welding, machining, and machine tools. The contents of this book will be useful for researchers as well as industry professionals.

Thermodynamics Laxmi Publications

The 4th Edition of Cengel & 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.

Bulletin of the Institution of Engineers (India). Tata McGraw-Hill Education

The second edition of this well-received book, continues to present the operating principles and working aspects of thermal and hydraulic machines. First, it covers the laws and the essential principles of thermodynamics that form the basis on which thermal machines operate. It subsequently presents the principles, construction details and the methods of control of hydraulic and thermal machines. The coverage of thermal machines includes steam turbines, gas turbines, IC engines, and reciprocating and centrifugal compressors. The coverage of hydraulic machines includes hydraulic turbines, reciprocating pumps and centrifugal pumps. The classification, construction and efficiency of these machines have been discussed with plenty of diagrams and worked problems. This will help the readers understand easily the underlying principles. This new edition includes substantially updated chapters and also introduces additional text as per the syllabus requirement. The book is intended for the undergraduate engineering students pursuing courses in mechanical, electrical and civil branches. KEY FEATURES : Provides succinct coverage of all operating aspects of thermal and hydraulic machines. Includes a large number of worked problems at the end of each chapter to help students achieve a sound understanding of the subject matter. Gives objective type questions with explanatory answers to assist students in preparing for competitive examinations.

THERMODYNAMICS, MECHANICS, THEORY OF MACHINES, STRENGTH OF MATERIALS AND FLUID DYNAMICS, Third Edition New Age International

What is mechanical engineering? What a mechanical engineering does? How did the mechanical engineering change through ages? What is the future of mechanical engineering? This book answers these questions in a lucid manner. It also provides a brief chronological history of landmark events and answers questions such as: When was steam engine invented? Where was first CNC machine developed? When did the era of additive manufacturing start? When did the marriage of mechanical and electronics give birth to discipline of mechatronics? This book informs and create interest on mechanical engineering in the general public and particular in students. It also helps to sensitize the engineering fraternity about the historical aspects of engineering. At the same time, it provides a common sense knowledge of mechanical engineering in a handy manner.

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Cold Storage, Controlled Atmosphere Storage, Modified Atmosphere Storage Advanced Thermal Solutions

Engineering for Storage of Fruits and Vegetables is a comprehensive reference that provides an understanding of the basic principles of cold storage load estimation, refrigeration capacity calculations for various types of cold storages, and other topics of evaporative cooling, thus demonstrating the important principles for designing low cost precooling chambers. The book is written in an accessible manner to provide a solid understanding of different environments and their considerations to give readers the confidence they need to design suitable packaging materials by understanding parameters, including reaction rates, deteriorative reactions, Arrhenius equations, Q10, K, D, Z parameters, and their influence on reaction rates. Covers a wide variety of related topics, from post-harvest physiology of fruits and vegetables, to the various aspects of controlled atmosphere storages Explains the application of water activities and enzyme kinetics for predicting shelf life of foods and design of packaging materials Includes solved problems and exercises which guide students and assist with comprehension

Advances in Manufacturing and Industrial Engineering Laxmi Publications, Ltd.

This book presents selected peer reviewed papers from the International Conference on Advanced Production and Industrial Engineering (ICAPIE 2019). It covers a wide range of topics and latest research in mechanical systems engineering, materials engineering, micro-machining, renewable energy, industrial and production engineering, and additive manufacturing. Given the range of topics discussed, this book will be useful for students and researchers primarily working in mechanical and industrial engineering, and energy technologies.

Fundamental and Advanced Topics PHI Learning Pvt. Ltd.

This is a text book for B.E./ B. Tech. students of all Indian Universities and Institutions. The book contains fifteen chapters. The book contains a large number of solved and unsolved problems. The special features of the book are: summery, Review Question, Multi-choice Questions and end of chapter numerical problems.

Refrigeration and Air Conditioning New Age International

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>.

Engineering Materials Phlogiston Press

ThermodynamicsTata McGraw-Hill EducationRefrigeration and Air ConditioningPHI Learning Pvt. Ltd.

A Brief History of Mechanical Engineering PHI Learning Pvt. Ltd.

The importance of practical training in engineering education, as emphasized 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 manual without any difficulty and perform the experiments.

Refrigeration and Air Conditioning Tata McGraw-Hill Education

This book, now in its second edition, continues to provide a comprehensive introduction to the

principles of chemical engineering thermodynamics and also introduces the student to the application of principles to various practical areas. The book emphasizes the role of the fundamental principles of thermodynamics in the derivation of significant relationships between the various thermodynamic properties. The initial chapter provides an overview of the basic concepts and processes, and discusses the important units and dimensions involved. The ensuing chapters, in a logical presentation, thoroughly cover the first and second laws of thermodynamics, the heat effects, the thermodynamic properties and their relations, refrigeration and liquefaction processes, and the equilibria between phases and in chemical reactions. The book is suitably illustrated with a large number of visuals. In the second edition, new sections on Quasi-Static Process and Entropy Change in Reversible and Irreversible Processes are included. Besides, new Solved Model Question Paper and several new Multiple Choice Questions are also added that help develop the students' ability and confidence in the application of the underlying concepts. Primarily intended for the undergraduate students of chemical engineering and other related engineering disciplines such as polymer, petroleum and pharmaceutical engineering, the book will also be useful for the postgraduate students of the subject as well as professionals in the relevant fields.

Engineering Thermodynamics Springer

The Revised Edition Of A Widely Used Book Contains Several New Topics To Make The Coverage More Comprehensive And Contemporary. * Highlights The Ozone Hole Problem And Related Steps To Modify The Refrigeration Systems. * The Discussion Of Vapour Compression/Absorption Systems Totally Recast With A Special Emphasis On Eco-Refrigerants. * Application Oriented Approach Followed Throughout The Book And Energy Efficiencyemphasised. * Several Real Life Problems Included To Illustrate The Practical Viability Of The Systems Discussed. * Additional Examples, Diagrams And Problems Included In Each Chapter For An Easier Grasp Of The Subject.With All These Features, This Book Would Serve As A Comprehensive Text For Undergraduate Mechanical Engineering Students. Postgraduate Students And Practising Engineers Would Also Find It Very Useful.

Thermodynamics and Thermal Engineering New Age International

The text begins by reviewing, in a simple and precise manner, the physical principles of three pillars of Refrigeration and Air Conditioning, namely thermodynamics, heat transfer, and fluid mechanics. Following an overview of the history of refrigeration, subsequent chapters provide exhaustive coverage of the principles, applications and design of several types of refrigeration systems and their associated components such as compressors, condensers, evaporators, and expansion devices. Refrigerants too, are studied elaboratively in an exclusive chapter. The second part of the book, beginning with the historical background of air conditioning in Chapter 15, discusses the subject of psychrometrics being at the heart of understanding the design and implementation of air conditioning processes and systems, which are subsequently dealt with in Chapters 16 to 23. It also explains the design practices followed for cooling and heating load calculations. Each chapter contains several worked-out examples that clarify the material discussed and illustrate the use of basic principles in engineering applications. Each chapter also ends with a set of few review questions to serve as revision of the material learned.

Journal of the Institution of Engineers (India). Educreation Publishing

The complete editorial contents of Qpedia Thermal eMagazine, Volume 2, Issues 1 - 12 features in-depth, technical articles on the most critical topics in the thermal management of electronics.

Engineering Thermodynamics Tata McGraw-Hill Education

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.

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