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Textbook of Thermal Engineering-J. K. Gupta 1997

A Text Book of Mechanical Technology-R. S. Khurmi 1989

A Text-Book of Mechanical Technolgy (Thermal Engineering)-R. S. Khurmi 1986

Thermal Engineering-R.K. Rajput 2005

Heat Engines :thermal Engineering-R. S. Khurmi 1977

A Textbook Of Thermal Engineering (Mechanical Technology)-J. K. Gupta 2008 Two new chapters on eneral Themodynamic Relations and Variable Specific Heat have been Added.The mistake which had crept in have been eliminated.we wish to express our sincere thanks to numerous professors and students,both at home and abroad,for sending their valuable suggestions and also for recommending the book to their students and friends.

A Text Book of Mechanical Technology-R. S. Khurmi 1989

Textbook of Engineering Thermodynamics-R. S. Khurmi 1987-06-01

Engineering Thermodynamics-R. K. Singal 2009-01-01 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 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

Thermal Engineering-I-Mahesh M Rathore 2018-06-18 This book has been developed to enable engineering students understand basic concepts of Thermal Engineering in a simple and easy to understand manner.

A Text Book of Engineering Thermodynamics-R. S. Khurmi 1983

Thermal Engineering-Rudramoorthy 2003-09-01

Engineering Mechanics-R. K. Singal 2008-11-27 The book systematically develops the concepts and principles essential for understanding the subject. The difficulties usually faced by new engineering students have been taken care of while preparing the book. A large number of numerical problems have been selected from university and competitive examination papers and question banks, properly graded, solved and arranged in various chapters. The present book has been divided in five parts: * Two-Dimensional Force System * Beams and Trusses * Moment of Inertia * Dynamics of Rigid Body * Stress and Strain Analysis The highlights of the book are. * Comparison tables and illustrative drawings * Exhaustive question bank on theory problems at the end of every chapter * A large number of solved numerical examples * SI units used throughout

Applied Thermodynamics-R.S. Khurmi 1977

Engineering Equation Solver-Sukanta K. Dash 2014 Non-linear algebraic equations arising out of pipe network problems with pumps are normally difficult to solve and hence avoided by the teachers and students for a possible solution. But now these problems can be taught with interest and can be solved within a very short time in the class by using EES. In fact any kind of complex algebraic or differential equations can be solved easily, following the book, whether they arise out of a network problem or from thermodynamics or chemical engineering. Solution of ordinary and partial differential equations can be done quickly in a class either by following the finite difference method or the shooting method using the Brents's optimization tool. Application of partial and ordinary differential equations to solve real life problems are shown in plenty in the book and the reader is expected to gain plenty of confidence by solving these problems as illustrated in the book.

Elements of Mechanical.Engineering (PTU)-Sadhu Singh 2009 The present book on Elements of Mechanical Engineering is meant for the engineering students of all branches at their first year level.It covers the new syllabus of panjab Technical University,Jalandhar.However,it shall be useful to students of other Universities also.The book covers the basic principles of Thermodynamics,zeroth law of Thermodynamics and the concept of temperature in the first chapter.

Thermodynamics and Thermal Engineering-J.Selwin Rajadurai 2003 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 Alongwith Answers For An Indepth Understanding Of The Subject.

Chemical Engineering-Morton Denn 2011-09-30 'Chemical engineering is the field of applied science that employs physical, chemical, and biological rate processes for the betterment of humanity'. This opening sentence of Chapter 1 has been the underlying paradigm of chemical engineering. Chemical Engineering: An Introduction is designed to enable the student to explore the activities in which a modern chemical engineer is involved by focusing on mass and energy balances in liquid-phase processes. Problems explored include the design of a feedback level controller, membrane separation, hemodialysis, optimal design of a process with chemical reaction and separation, washout in a bioreactor, kinetic and mass transfer limits in a two-phase reactor, and the use of the membrane reactor to overcome equilibrium limits on conversion. Mathematics is employed as a language at the most elementary level. Professor Morton M. Denn incorporates design meaningfully; the design and analysis problems are realistic in format and scope.

Thermal Engineering-Sarkar 2001-07-01

A Text Book of Machine Design-R. S. Khurmi 1984

Engineering Thermodynamics-R. K. Rajput 2010 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.

Applied Thermodynamics-R. K. Rajput 2009-12

Engineering Mechanics 3-Dietmar Gross 2014-07-03 Dynamics is the third volume of a three-volume textbook on Engineering Mechanics. It was written with the intention of presenting to engineering students the basic concepts and principles of mechanics in as simple a form as the subject allows. A second objective of this book is to guide the students in their efforts to solve problems in mechanics in a systematic manner. The simple approach to the theory of mechanics allows for the different educational backgrounds of the students. Another aim of this book is to provide engineering students as well as practising engineers with a basis to help them bridge the gaps between undergraduate studies, advanced courses on mechanics and practical engineering problems. The book contains numerous examples and their solutions. Emphasis is placed upon student participation in solving the problems. The contents of the book correspond to the topics normally covered in courses on basic engineering mechanics at universities and colleges. Volume 1 deals with Statics; Volume 2 contains Mechanics of Materials.

T.B.Of Refrigeration & Airconditioning (M.E.)-R. S. Khurmi 2008 The Multicolor Edition Has Been thoroughly revised and brought up-to-date.Multicolor pictures have been added to enhance the content value and to give the students and idea of what he will be dealing in relity,and to bridge the gap between theory and Practice.

Refrigeration and Air Conditioning-Ramesh Chandra Arora 2010-01-30 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.

Nanotechnology in a Nutshell-Christian Ngô 2014-01-04 A new high-level book for professionals from Atlantis Press providing an overview of nanotechnologies now and their applications in a broad variety of fields, including information and communication technologies, environmental sciences and engineering, societal life, and medicine, with provision of customized treatments. The book shows where nanotechnology is now - a fascinating time when the science is transitioning into complex systems with impact on new products. Present and future developments are addressed, as well as a larger number of new industrial and research opportunities deriving from this domain. An overview for professionals, researchers and policy-makers of this very rapidly expanding field. Brief chapters and colour figures with a contained overall length make the book attractive at an attractive price - a must for every professional’s shelf. Mihail C. Roco, National Science Foundation and National Nanotechnology Initiative, wrote the preface underlying the importance and weight of the present book to this exciting and epoch-awakening field of research and applications: “Nanotechnology is well recognized as a science and technology megatrend for the beginning of the 21st century. This book aims to show where nanotechnology is now - transitioning to complex systems and fundamentally new products - and communicates the societal promise of nanotechnology to specialists and the public. Most of what has already made it into the marketplace is in the form of “First Generation” products, passive nanostructures with steady behaviour. Many companies have “Second Generation” products, active nanostructures with changing behaviour during use, and embryonic “Third Generation” products, including 3-dimensional nanosystems. Concepts for “Fourth Generation” products, including heterogeneous molecular nanosystems, are only in research.”

Thermal Science And Engineering-D.S. Kumar 2009

Concrete Technology-Murari Lal Gambhir 2013

Civil Engineering-R. S. Khurmi 2000-11-01

Theory of Structures-R. S. Khurmi 1979

A Textbook of Engineering Mechanics (SI Units)-R. S. Khurmi 2007 The present edition of this book has been throughly revised and a lot of useful material has been added to improve its quality and use.It also contains lot of pictures and colored diagrams for better and quick understanding as well as grasping the subject matter.

Pid Control Fundamentals-Jens Graf 2016-08-07 The book PID Control Fundamentals provides detailed insight into important topics related to PID control. The tools presented enable the reader to design closed feedback loops with the desired control performance. The book begins by introducing the one-degree-of-freedom and the two-degrees-of-freedom control structures. Then, types of PID controllers are discussed, and the advantages, as well as the disadvantages, of each type are explained. Suggestions for the application of I, PI, PD, or PID control are given. Methods for designing the controller transfer function are emphasized, the problem of closed-loop stability is discussed, and, finally, robustness measures are presented. Throughout the entire book, detailed examples are used for illustration, and Matlab code is given to facilitate the reproduction of the examples presented.

A Textbook of Fluid Mechanics and Hydraulic Machines-R. K. Bansal 2004-12-31

Steam Tables (With Mollier Diagrams In S.I. Units)-R. S. Khurmi 1990

Kinematics and Dynamics of Machines-George H. Martin 2002-05-28 Kinematic and dynamic analysis are crucial to the design of mechanism and machines. In this student-friendly text, Martin presents the fundamental principles of these important disciplines in as simple a manner as possible, favoring basic theory over special constructions. Among the areas covered are the equivalent four-bar linkage; rotating vector treatment for analyzing multi-cylinder engines; and critical speeds, including torsional vibration of shafts. The book also describes methods used to manufacture disk cams, and it discusses mathematical methods for calculating the cam profile, the pressure angle, and the locations of the cam. This book is an excellent choice for courses in kinematics of machines, dynamics of machines, and machine design and vibrations.

Engineer This-Carol McBride 2018-04 Turn trash into invention and sharpen your engineering eye with these 10 hands-on engineering projects. Using recycled and easy-to-find materials, engineer your own hydro rocket, propeller boat, Ferris wheel, and other completely functional machines. Explore amazing scientific concepts, such as potential, kinetic, and electrical energy; principles of flight; weights and balances; pulleys and levers; laws of motion; and more. Each project includesstep-by-step instructions, full-color photos, exciting facts, safety tips, and extended engineering and science activities for further discovery.

Nano-Safety-Dominick E. Fazarro 2017-09-25 Nanotechnology safety is the practice of handling engineered nanomaterials in production and manufacturing. Good practice consists of understanding and interpreting Material Safety Data Sheets, behaving safely when working with yet unknown nanomaterials, understanding health effects, and proactively creating safety measures against potential hazards. This book introduces nanotechnology risk management to readers from academia and industry.

Thermal Physics-Robert Floyd Sekerka 2015-08-19 In Thermal Physics: Thermodynamics and Statistical Mechanics for Scientists and Engineers, the fundamental laws of thermodynamics are stated precisely as postulates and subsequently connected to historical context and developed mathematically. These laws are applied systematically to topics such as phase equilibria, chemical reactions, external forces, fluid-fluid surfaces and interfaces, and anisotropic crystal-fluid interfaces. Statistical mechanics is presented in the context of information theory to quantify entropy, followed by development of the most important ensembles: microcanonical, canonical, and grand canonical. A unified treatment of ideal classical, Fermi, and Bose gases is presented, including Bose condensation, degenerate Fermi gases, and classical gases with internal structure. Additional topics include paramagnetism, adsorption on dilute sites, point defects in crystals, thermal aspects of intrinsic and extrinsic semiconductors, density matrix

formalism, the Ising model, and an introduction to Monte Carlo simulation. Throughout the book, problems are posed and solved to illustrate specific results and problem-solving techniques. Includes applications of interest to physicists, physical chemists, and materials scientists, as well as materials, chemical, and mechanical engineers Suitable as a textbook for advanced undergraduates, graduate students, and practicing researchers Develops content systematically with increasing order of complexity Self-contained, including nine appendices to handle necessary background and technical details

Thermal Engineering in Power Systems-Ryoichi Amano 2008-01-01 Research and development in thermal engineering for power systems are of significant importance to many scientists who are engaged in research and design work in power-related industries and laboratories. This book focuses on variety of research areas including Components of Compressor and Turbines that are used for both electric power systems and aero engines, Fuel Cells, Energy Conversion, and Energy Reuse and Recycling Systems. To be competitive in today's market, power systems need to reduce the operating costs, increase capacity factors and deal with many other tough issues. Heat Transfer and fluid flow issues are of great significance and it is likely that a state-of-the-art edited book with reference to power systems will make a contribution for design and R&D engineers and the development towards sustainable energy systems.

Introduction to Basic Manufacturing Process and Workshop Technology-Rajender Singh 2006-01-01 Manufacturing And Workshop Practices Have Become Important In The Industrial Environment To Produce Products For The Service Of Mankind. The Basic Need Is To Provide Theoretical And Practical Knowledge Of Manufacturing Processes And Workshop Technology To All The Engineering Students. This Book Covers Most Of The Syllabus Of Manufacturing Processes/Technology, Workshop Technology And Workshop Practices For Engineering (Diploma And Degree) Classes Prescribed By Different Universities And State Technical Boards. Some Comparisons Have Been Given In Tabular Form And The Stress Has Been Given On Figures For Better Understanding Of Tools, Equipments, Machines And Manufacturing Setups Used In Various Manufacturing Shops. At The End Of Each Chapter, A Number Of Questions Have Been Provided For Testing The Student S Understanding About The Concept Of The Subject. The Whole Text Has Been Organized In 26 Chapters. The First Chapter Presents The Brief Introduction Of The Subject With Modern Concepts Of Manufacturing Technology Needed For The Competitive Industrial Environment. Chapter 2 Provides The Necessary Details Of Plant And Shop Layouts. General Industrial Safety Measures To Be Followed In Various Manufacturing Shops Are Described In Detail In Chapter 3. Chapters 4 8 Provide Necessary Details Regarding Fundamentals Of Ferrous Materials, Non-Ferrous Materials, Melting Furnaces, Properties And Testing Of Engineering Materials And Heat Treatment Of Metals And Alloys. Chapters 9 13 Describe Various Tools, Equipments And Processes Used In Various Shops Such As Carpentry, Pattern Making, Mold And Core Making, Foundry Shop. Special Casting Methods And Casting Defects Are Also Explained At Length. Chapters 14 16 Provide Basic Knowledge Of Mechanical Working Of Metals. Fundamental Concepts Related To Forging Work And Other Mechanical Working Processes (Hot And Cold Working) Have Been Discussed At Length With Neat Sketches. Chapter 17 Provides Necessary Details Of Various Welding And Allied Joining Processes Such As Gas Welding, Arc Welding, Resistance Welding, Solid-State Welding, Thermochemical Welding, Brazing And Soldering. Chapters 18 19 Describe Sheet Metal And Fitting Work In Detail. Various Kinds Of Hand Tools And Equipments Used In Sheet Metal And Fitting Shops Have Been Described Using Neat Sketches. Chapters 20 24 Provide Construction And Operational Details Of Various Machine Tools Namely Lathe, Drilling Machine, Shaper, Planer, Slotter, And Milling Machine With The Help Of Neat Diagrams. Chapter 25 Deals With Technique Of Manufacturing Of Products With Powder Metallurgy. The Last Chapter Of The Book Discusses The Basic Concepts Of Quality Control And Inspection Techniques Used In Manufacturing Industries. The Book Would Serve Only As A Text Book For The Students Of Engineering Curriculum But Would Also Provide Reference Material To Engineers Working In Manufacturing Industries.

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