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Engineering Mechanics : (As Per The New Syllabus, B.Tech. 1 Year Of U.P. Technical University)- Bhavikatti 2008-01-01
Textbook of Engineering Mechanics- R.S. Khurmi 1997-12-01
Textbook on Professional Ethics and Human Values- R.S. Naagarazan 2006
Engineering Mechanics of Composite Materials- Isaac M. Daniel 2007
A Textbook of Engineering Mechanics- R.K. Bansal 2005-12
Engineering Mechanics- R. K. Bansal 2007-01-01
Engineering Physics - I (U.P. Technical University, Lucknow)- Dr. A.K. Katiyar 2010
Introduction to Fluid Mechanics and Fluid Machines- S. K.. Som 2008
Engineering Mechanics- Anup Goel 2021-01-01 Engineering mechanics is the branch of the physical science which describes the response of bodies or systems of bodies to external behaviour of a body, in either a beginning state of rest or of motion, subjected to the action of forces. It bridges the gap between physical theory and its application to technology. It is used in many fields of engineering, especially mechanical engineering and civil engineering. Much of engineering mechanics is based on Sir Issac Newton’s laws of motion. Within the practical sciences, engineering mechanics is useful in formulating new ideas and theories, discovering and interpreting phenomena and developing experimental and computational tools. Engineering mechanics is the application of applied mechanics to solve problems involving common engineering elements. The goal of this engineering mechanics course is to expose students to problems in mechanics as applied to plausibly real-world scenarios. Problems of particular types are explored in detail in the hopes that students will gain an inductive understanding of the underlying principles at work; students should then be able to recognize problems of this sort in real-world situations and respond accordingly. Our hope is that this book, through its careful explanations of concepts, practical examples and figures bridges the gap between knowledge and proper application of that knowledge.
Applied Thermodynamics- B. K. Venkanna 2011
Engineering Thermodynamics- P. K. Nag 2005
Krishan's Engineering Physics Vol-2-
Introduction to Engineering Mathematics - Volume IV [APJAKTU]- HK Dass et. al Introduction to Engineering Mathematics - Volume IV has been thoroughly revised according to the New Syllabi (2018 onwards) of Dr. A.P.J. Abdul Kalam Technical University (AKTU, Lucknow). The book contains 13 chapters divided among five modules - Partial Differential Equations, Applications of Partial Differential Equations, Statistical Techniques - I, Statistical Techniques - II and Statistical Techniques - III.
Engineering Mechanics- Arthur Peter Boresi 2001 Arthur Boresi and Richard Schmidt's innovative textbook (and its partner text, ENGINEERING MECHANICS: DYNAMICS) presents mechanics in the most exciting and relevant context possible, with painstaking clarity and accuracy throughout. The authors strive to present the topics thoroughly and directly, with fundamental principles emerging through application to real-world problems. They present the technical principles of mechanics within the framework of a structured learning methodology, enabling students to better understand and retain the material.The integrated use of learning aids throughout the book is based on the authors' experience that students can be taught effective study habits while they learn mechanics.
Engineering Mechanics- James L. Meriam 1998-01 Engineering Mechanics is written in a style that is concise and authoritative which has been thoroughly tested and proven for organization of topics and presentation of theory geared to student understanding. The major emphasis is on basic principles and problem formulation rather than on a multitude of special cases. The authors have received widespread acclaim from students and instructors for their attention to detail and remarkably error-free treatment.
A Textbook of Workshop Technology- RS Khurmi JK Gupta 2008 A Textbook of workshop Technology(Manufacturing Processes)to the students of degree and diploma of all the Indian and foreign universities.The object of this book is to present the subject matter in a most concise,compact,to the point and lucid manner.While writing the book,we have constantly kept in mind the various requirements of the students.No effort has been spared to enrich the book with simple language and self-explanatory diagrams.Every care has been taken not to make the book voluminous,as the students have also to face other subjects of equal importance.
Applied Thermodynamics- Onkar Singh 2006-01-01 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.
Basic Concepts of Electrical Engineering- Kuldeep Sahay 2006 This Book Presents A Practical-Oriented, Sound, Modularized Coverage Of Fundamental Topics Of Basic Electrical Engineering, Network Analysis & Network Theorems, Electromagnetism & Magnetic Circuit, Alternating Current & Voltages, Electrical Measurement & Measuring Instrument And Electric Machines.Salient Features:# Clarification Of Basic Concepts# Several Solved Examples With Detailed Explanation# At The End Of Chapters, There Are Descriptive And Numerical Unsolved Problems# Written In Very Simple Language And Suitable For Self-Study# Step-By-Step Procedures Given For Solving Numerical
Hydraulics, Fluid Mechanics and Hydraulic Machines- RS Khurmi N Khurmi 1987-05 The favourable and warm reception,which the previous editions and reprints of this popular book has enjoyed all over India and abroad has been a matter of great satisfaction for me.
Basic Mechanical Engineering- Rajput 2002
Engineering Mechanics- Arshad Noor Siddiquee 2018-05-03 This comprehensive and self-contained textbook will help students in acquiring an understanding of fundamental concepts and applications of engineering mechanics. With basic prior knowledge, the readers are guided through important concepts of engineering mechanics such as free body diagrams, principles of the transmissibility of forces, Coulomb's law of friction, analysis of forces in members of truss and rectilinear motion in horizontal direction. Important theorems including Lami's theorem, Varignon's theorem, parallel axis theorem and perpendicular axis theorem are discussed in a step-by-step manner for better clarity. Applications of ladder friction, wedge friction, screw friction and belt friction are discussed in detail. The textbook is primarily written for undergraduate engineering students in India. Numerous theoretical questions, unsolved numerical problems and solved problems are included throughout the text to develop a clear understanding of the key principles of engineering mechanics. This text is the ideal resource for first year engineering undergraduates taking an introductory, single-semester course in engineering mechanics.
Matrices in Engineering Problems- Marvin J. Tobias 2011 This book is intended as an undergraduate text introducing matrix methods as they relate to engineering problems. It begins with the fundamentals of mathematics of matrices and determinants. Matrix inversion is discussed, with an introduction of the well known reduction methods. Equation sets are viewed as vector transformations, and the conditions of their solvability are explored. Orthogonal matrices are introduced with examples showing application to many problems requiring three dimensional thinking. The angular velocity matrix is shown to emerge from the differentiation of the 3-D orthogonal matrix, leading to the discussion of particle and rigid body dynamics. The book continues with the eigenvalue problem and its application to multi-variable vibrations. Because the eigenvalue problem requires some operations with polynomials, a separate discussion of these is given in an appendix. The example of the vibrating string is given with a comparison of the matrix analysis to the continuous solution. Table of Contents: Matrix Fundamentals / Determinants / Matrix Inversion / Linear Simultaneous Equation Sets / Orthogonal Transforms / Matrix Eigenvalue Analysis / Matrix Analysis of Vibrating Systems

Dynamics of Smart Structures-Ranjan Vepa 2010-03-10 Dynamics of Smart Structures is a practical, concise and integrated text that provides an introduction to the fundamental principles of a field that has evolved over the recent years into an independent and identifiable subject area. Bringing together the concepts, techniques and systems associated with the dynamics and control of smart structures, it comprehensively reviews the differing smart materials that are employed in the development of the smart structures and covers several recent developments in the field of structural dynamics. Dynamics of Smart Structures has been developed to complement the author's new interdisciplinary programme of study at Queen Mary, University of London that includes courses on emerging and new technologies such as biomimetic robotics, smart composite structures, micro-electro-mechanical systems (MEMS) and their applications and prosthetic control systems. It includes chapters on smart materials and structures, transducers for smart structures, fundamentals of structural control, dynamics of continuous structures, dynamics of plates and plate-like structures, dynamics of piezoelectric media, mechanics of electro-actuated composite structures, dynamics of thermo-elastic media: shape memory alloys, and controller designs for flexible structures.

Elements of Fracture Mechanics-Prashant Kumar 2009 Fracture Mechanics is an essential tool to evaluate whether a component is likely to fil or not.This book has been written in a simple and step-wise manner to help readers familiarise with the basic and advanced topics. Additionally it has over 185 illustrations to further reinforce and simplify the learning process. With this coverage, the book will be useful to professionals and students of engineering.

Introduction to Quantum Mechanics-Nikhil Ranjan Roy The subject of quantum mechanics has grown tremendously during the last century and revealed many hidden secrets of nature. It has enabled mankind move towards understanding the nature of matter and radiation. However, for the students its concepts have remained a problem to understand. Having deeply observed this situation and having himself experienced it, the author has presented the subject in the style of classroom teaching that reveals its marvels and the wide scope it offers. The book focuses on the evolution of the subject, the underlying ideas, the concepts, the laws and the mathematical apparatus for the formulation of the subject in a systematic and comprehensible manner. Each chapter is followed by a number of solved examples and problems, which are chosen so as to serve as guidelines in the application of the basic principles of quantum mechanics and to assist in solving more complex problems. Key Features • Written to develop passion for quantum mechanics; thus makes this tough subject look simple • Showcases the marvels and scope of quantum mechanics • Meets the syllabi requirements of all undergraduate courses

Problems and Solutions in Engineering Mechanics-S. S. Bhavikatti 2005 Problem Solving Is A Vital Requirement For Any Aspiring Engineer. This Book Aims To Develop This Ability In Students By Explaining The Basic Principles Of Mechanics Through A Series Of Graded Problems And Their Solutions.Each Chapter Begins With A Quick Discussion Of The Basic Concepts And Principles. It Then Provides Several Well Developed Solved Examples Which Illustrate The Various Dimensions Of The Concept Under Discussion. A Set Of Practice Problems Is Also Included To Encourage The Student To Test His Mastery Over The Subject.The Book Would Serve As An Excellent Text For Both Degree And Diploma Students Of All Engineering Disciplines. Amie Candidates Would Also Find It Most Useful.

Refrigeration and Air Conditioning-Manohar Prasad 2011-03 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.

Engineering Mechanics 2-Dietmar Gross 2018-03-12 Now in its second English edition, Mechanics of Materials is the second volume of a three-volume textbook series 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 new edition is fully revised and supplemented by additional examples. 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 and Volume 3 treats Particle Dynamics and Rigid Body Dynamics. Separate books with exercises and well elaborated solutions are available.

Modern Engineering Physics-A S Vasudeva 2012-07 The book in its present form is due to my interaction with the students for quite a long time.It had been my long-cherished desire to write a book covering most of the topics that form the syllabi of the Engineering and Science students at the degree level.Many students,although able to understand the various topics of the books,may not be able to put their knowledge to use.For this purpose a number of questions and problems are given at the end of each chapter.

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

A Textbook of Strength of Materials-R. K. Bansal 2010

Manufacturing Processes (As per the new Syllabus, B.Tech. 1 year of U.P. Technical University)- 2009 About the Book: Manufacturing process has 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 to all the engineering students. This book covers most of the syllabus of manufacturing processes for engineering classes prescribed by UPTU. At the end of each chapter, a number of questions have been provided for testing the students understanding about the concept of the subject. The whole text has been organized in 10 chapters. The first chapter presents the br.

Fluid Mechanics and Hydraulic Machines-K. Subramanya 2018-01-10 Salient Features: - Comprehensive coverage of Hydraulic Machines in a student-friendly manner - Detailed concept review that aids in thorough and quick revision - Objective questions for competitive examinations as per new pattern - Solutions to numerical objec_ ve ques_ ons provided on Online Learning Center

Fundamentals of Electrical Drives-G. K. Dubey 2002-05 Encouraged by the response to the first edition and to keep pace with recent developments, Fundamentals of Electrical Drives, Second Edition incorporates greater details on semi-conductor controlled drives, includes coverage of permanent magnet AC motor drives and switched reluctance motor drives, and highlights new trends in drive technology. Contents were chosen to satisfy the changing needs of the industry and the appropriate coverage of modern and conventional drives. With the large number of examples, problems, and solutions provided, Fundamentals of Electrical Drives, Second Edition will continue to be a useful reference for practicing engineers and for those preparing for Engineering Service Examinations.

Engineering Fluid Mechanics-H. Yamaguchi 2008-02-03 A real boon for those studying fluid mechanics at all levels, this work is intended to serve as a comprehensive textbook for scientists and engineers as well as advanced students in thermo-fluid courses. It provides an intensive monograph essential for understanding dynamics of ideal fluid, Newtonian fluid, non-Newtonian fluid and magnetic fluid. These distinct, yet intertwined subjects are addressed in an integrated manner, with numerous exercises and problems throughout.

A Text Book of Engineering Mathematics-Rajesh Pandey 2009-01-01

Manufacturing Process-H.N. Gupta 2009 Effective from 2008-09 session, U.P.T.U. has introduced the subject of manufacturing processes for first year engineering students of all streams. This textbook covers the entire course material in a distilled form.

Principles of Solid Mechanics-Rowland Richards, Jr. 2000-12-12 Evolving from more than 30 years of research and teaching experience, Principles of Solid Mechanics offers an in-depth treatment of the application of the full-range theory of deformable solids for analysis and design. Unlike other texts, it is not either a civil or mechanical engineering text, but both. It treats not only analysis but incorporates design along with experimental observation. Principles of Solid Mechanics serves as a core course textbook for advanced seniors and first-year graduate students. The author focuses on basic concepts and applications, simple yet unsolved problems, inverse strategies for optimum design, unanswered questions, and unresolved paradoxes to intrigue students and encourage further study. He includes plastic as well as elastic behavior in terms of a unified field theory and discusses the properties of field equations and requirements on boundary conditions crucial for understanding the limits of numerical modeling. Designed to help guide students with little experimental experience and no exposure to drawing and graphic analysis, the text presents carefully selected worked examples. The author makes liberal use of footnotes and includes over 150 figures and 200 problems. This, along with his approach, allows students to see the full range, non-linear response of structures.

Engineering Mechanics,3e-K. L. Kumar 2003-04-01

Engineering Materials and Metallurgy-RK Rajput 2006 This treatise on Engineering Materials and Metallurgy contains comprehensive treatment of the matter in simple,lucid and direct language and envelopes a large number of figures which reinforce the text in the most efficient and effective way.The book comprise five chapters(excluding basic concepts)in all and fully and exhaustively covers the syllabus in the above mentioned subject of 4th.Semester Mechanical,Production,Automobile Engineering and 2nd semester Mechanical disciplines of Anna University.