

Ak Tayal Engineering Mechanics

This book provides a thorough understanding of the principles and applications of engineering mechanics. Beginning with an introduction to the subject, the book provides a detailed treatment of systems of forces and explains the concepts of centroid and centre of gravity, moment of inertia, virtual work, friction, kinematics of particle and motion of projectiles. It also discusses the laws of motion, power and energy, and collision of elastic bodies in dynamics. Topics are dealt with in a well-organised sequence with proper explanations and simple mathematical formulations. Key features: Includes both vector and scalar analyses of topics. Emphasises the practical applicability of engineering mechanics to real-life situations. Provides key concepts to help instructors deliver improved lectures. Includes a large number of worked-out examples. Provides chapter-end review questions to test students' understanding of the subject. Includes chapter-end numerical problems to enhance problem-solving ability. Incorporates objective type questions to help students prepare for examinations.

Engineering Mechanics: Combined Statics & Dynamics, Twelfth Edition is ideal for civil and mechanical engineering professionals. In his substantial revision of Engineering Mechanics, R.C. Hibbeler empowers students to succeed in the whole learning experience. Hibbeler achieves this by calling on his everyday classroom experience and his knowledge of how students learn inside and outside of lecture. In addition to over 50% new homework problems, the twelfth edition introduces the new elements of Conceptual Problems, Fundamental Problems and MasteringEngineering, the most technologically advanced online tutorial and homework system.

This book is now adapted into SI Units for the convenience of students. The third edition was completely rewritten and expanded. The previous editions endeavoured to show how a few basic concepts may be combined and applied to a wide variety of practical situations that are encountered by engineers. Another purpose was to help the student develop the logical, orderly processes of thinking that characterize an engineer. Both of these objects have been emphasised to an even greater extent in this revised edition. Salient features: " Converted into SI Units " Noteworthy changes and additions in Statics, include a unified and coordinated treatment of plane and space statics " Dynamics has been reorganised and rewritten to take full advantage of vector notation " Sections on advanced or specialized topics are identified by an asterisk " Topics are presented in a manner that will relieve instructors of the burden of detailed explanation " Completely revised set of more than 1200 problems " Numbering plan used in this revision enables one to locate quickly any cross reference

This is the revised edition of the book with new chapters to incorporate the latest developments in the field. It contains approx. 200 problems from various competitive examinations (GATE, IES, IAS) have been included. The author does hope that with this, the utility of the book will be further enhanced.

This textbook introduces undergraduate students to engineering dynamics using an innovative approach that is at once accessible and comprehensive. Combining the strengths of both beginner and advanced dynamics texts, this book has students solving dynamics problems from the very start and gradually guides them from the basics to increasingly more challenging topics without ever sacrificing rigor. Engineering Dynamics spans the full range of mechanics problems, from one-dimensional particle kinematics to three-dimensional rigid-body dynamics, including an introduction to Lagrange's and Kane's methods. It skillfully blends an easy-to-read, conversational style with careful attention to the physics and mathematics of engineering dynamics, and emphasizes the formal systematic notation students need to solve problems correctly and succeed in more advanced courses. This richly illustrated textbook features numerous real-world examples and problems, incorporating a wide range of difficulty; ample use of MATLAB for solving problems; helpful tutorials; suggestions for further reading; and detailed appendixes. Provides an accessible yet rigorous introduction to engineering dynamics Uses an explicit vector-based notation to facilitate understanding Professors: A supplementary Instructor's Manual is available for this book. It is restricted to teachers using the text in courses. For information on how to obtain a copy, refer to: http://press.princeton.edu/class_use/solutions.html

It is gratifying to note that the book has very widespread acceptance by faculty and students throughout the country. In the revised edition some new topics have been added. Additional solved examples have also been added. The data of transmission system in India has been updated.

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.

Engineering Mechanics Statics and Dynamics Engineering Mechanics A Textbook of Engineering Mechanics Laxmi

Publications Conquering Everest: The Lives of Edmund Hillary and Tenzing Norgay A Graphic Novel Campfire

This book describes materials of construction, the sources, characteristics, extraction, manufacture and uses. It meets the complete syllabi needs of undergraduate courses in civil engineering. The text includes a listing of: the various sources of materials; availability in different areas; manufacturing of varieties of materials; introduction of charts, tables and graphs with informative notes; and, the use of water and its procession, along with schematic diagrams.

We are excited to present the third edition of Linear Integrated Circuits by renowned authors. The revised edition continues with its essence of dealing with ICs in detail including theoretical, analytical and application aspects. The learning outcomes-based style of content delivery provides the undergraduate engineering students a thorough understanding of the concepts and induces further exploration into the topics. The book will be a useful reference to GATE, UPSC and other competitive examinations aspirants.

Tenzing Norgay was the son of poor Tibetan immigrants living in Nepal. He longed to see the world but was told he could aspire to be little more than a servant. Edmund Hillary was a humble beekeeper from New Zealand, who spent his youth dreaming of adventures he could never hope to experience. And Everest was the ultimate adventure. The mountain's peak is the highest point on Earth, stretching beyond the clouds. So dangerous and challenging, Everest had never been successfully climbed and many had died trying. In 1953, Tenzing Norgay and Edmund Hillary joined a team of explorers determined to reach its top. Alone at the top of the world with their oxygen running low, they faced brutal elements and new dangers at every turn. And they were armed with little more than their courage, determination, and a belief in each other. But would that be enough to achieve the impossible, what no man had done before?

A modern vector oriented treatment of classical dynamics and its application to engineering problems.

ENGINEERING MECHANICS: STATICS, 4E, written by authors Andrew Pytel and Jaan Kiusalaas, provides readers with a solid understanding of statics without the overload of extraneous detail. The authors use their extensive teaching experience and first-hand knowledge to deliver a presentation that's ideally suited to the skills of today's learners. This edition clearly introduces critical concepts using features that connect real problems and examples with the fundamentals of engineering mechanics. Readers learn how to effectively analyze problems before substituting numbers into formulas -- a skill that will benefit them tremendously as they encounter real problems that do not always fit into standard formulas. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This practical, user-friendly reference book of common mechanical engineering concepts is geared toward makers who don't have (or want) an engineering degree but need to know the essentials of basic mechanical elements to successfully accomplish their personal projects. The book provides practical mechanical engineering information (supplemented with the applicable math, science, physics, and engineering theory) without being boring like a typical textbook. Most chapters contain at least one hands-on, fully illustrated, step-by-step project to demonstrate the topic being discussed and requires only common, inexpensive, easily sourced materials and tools. Some projects also provide alternative materials and tools and processes to align with the reader's individual preferences, skills, tools, and materials-at-hand. Linked together via the authors' overarching project -- building a kid-sized tank -- the chapters describe the thinking behind each mechanism and then expands the discussions to similar mechanical concepts in other applications. Written with humor, a bit of irreverence, and entertaining personal insights and first-hand experiences, the book presents complex concepts in an uncomplicated way. Highlights include: Provides mechanical engineering information that includes math, science, physics and engineering theory without being a textbook Contains hands-on projects in each chapter that require common, inexpensive, easily sourced materials and tools All hands-on projects are fully illustrated with step-by-step instructions Some hands-on projects provide alternative materials and tools/processes to align with the reader's individual preferences, skills, tools and materials-at-hand Includes real-world insights from the authors like tips and tricks ("Staying on Track") and fail moments ("Lost Track!") Many chapters contain a section ("Tracking Further") that dives deeper into the chapter subject, for those readers that are interested in more details of the topic Builds on two related Make: projects to link and illustrate all the chapter topics and bring individual concepts together into one system Furnishes an accompanying website that offers further information, illustrations, projects, discussion boards, videos, animations, patterns, drawings, etc. Learn to effectively use professional mechanical engineering principles in your projects, without having to graduate from engineering school!

Applied Mechanics and Strength of Materials to the students of U.P.S.C.(Engg. Services)B.Sc. Engg. And Diploma in general, and A.M.I.E.(India)in particular. The Object of this book is to present the subject the subject matter in a most concise, compact, to the point and lucid manner.

Sets the standard for introducing the field of comparative politics This text begins by laying out a proven analytical framework that is accessible for students new to the field. The framework is then consistently implemented in twelve authoritative country cases, not only to introduce students to what politics and governments are like around the world but to also understand the importance of their similarities and differences. Written by leading comparativists and area study specialists, Comparative Politics Today helps to sort through the world's complexity and to recognize patterns that lead to genuine political insight. MyPoliSciLab is an integral part of the Powell/Dalton/Strom program. Explorer is a hands-on way to develop quantitative literacy and to move students beyond punditry and opinion. Video Series features Pearson authors and top scholars discussing the big ideas in each chapter and applying them to enduring political issues. Simulations are a game-like opportunity to play the role of a political actor and apply course concepts to make realistic political decisions. ALERT: Before you purchase, check with your instructor or review your course syllabus to ensure that you select the correct ISBN. Several versions of Pearson's MyLab & Mastering products exist for each title, including customized versions for individual schools, and registrations are not transferable. In addition, you may need a CourseID, provided by your instructor, to register for and use Pearson's MyLab & Mastering products. Packages Access codes for Pearson's MyLab & Mastering products may not be included when purchasing or renting from companies other than Pearson; check with the seller before completing your purchase. Used or rental books If you rent or purchase a used book with an access code, the access code may have been redeemed previously and you may have to purchase a new access code. Access codes Access codes that are purchased from sellers other than Pearson carry a higher risk of being either the wrong ISBN or a previously redeemed code. Check with the seller prior to purchase.

A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

Revised extensively and updated with several new topics, this book discusses the principles and applications of "Heat and Mass Transfer". It is written with extensive pedagogy, clear explanations and examples throughout to elucidate the concepts and facilitate problem solving. Retaining the features that made previous editions perennial favorites, Fundamental Mechanics of Fluids, Third Edition illustrates basic equations and strategies used to analyze fluid dynamics, mechanisms, and behavior, and offers solutions to fluid flow dilemmas encountered in common engineering applications. The new edition contains completely re

The book presents a comprehensive study of important topics in Mechanics of pure and applied sciences. It provides knowledge of scalar and vector in optimum depth to make the students understand the concepts of Mechanics in simple, coherent and lucid manner and grasp its principles & theory. It caters to the requirements of students of B.Sc. Pass and Honours courses. Students of engineering disciplines and the ones aspiring for competitive exams such as AIME and others, will also find it useful for their preparations.

Strength of Materials is an important subject in engineering in which concept of load transfer in a structure is developed and method of finding internal forces in the members of the structure is taught. This book is written strictly as per West Bengal polytechnic syllabus. The subject is developed systematically, using good number of figures and simple English. At the end of each chapter a set of problems are presented with answer so that the students can check their ability to solve problems. To enhance the ability of students to answer semester and examinations a set of descriptive type, fill in the blanks type, identifying true/false type and multiple choice questions are also presented. Key Features • 100% coverage of new syllabus • Emphasis on practice of numerical for guaranteed success in exams • Lucidity and simplicity maintained throughout • Nationally acclaimed author of over 40 books

The second edition of Engineering Mechanics is specially designed as a textbook for undergraduate students of engineering. It provides a detailed and holistic treatment of the basic theories and principles of both statics and dynamics. Starting from the fundamental concepts of force and equilibrium along with free body diagrams, this book comprehensively covers the various analytical aspects of rigid body mechanics, including a suitable discourse on simple lifting machines. Within each chapter, the simpler topics and problems precede those that are more complex and advanced. Each chapter starts with the key concepts and gradually builds up on the advanced topics using detailed and easy-to-understand illustrations.

Now in its eighth edition, Higher Engineering Mathematics has helped thousands of students succeed in their exams. Theory is kept to a minimum, with the emphasis firmly placed on problem-solving skills, making this a thoroughly practical introduction to the advanced engineering mathematics that students need to master. The extensive and thorough topic coverage makes this an ideal text for upper-level vocational courses and for undergraduate degree courses. It is also supported by a fully updated companion website with resources for both students and lecturers. It has full solutions to all 2,000 further questions contained in the 277 practice exercises.

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.

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