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Statics For Dummies

John Wiley & Sons *The fast and easy way to ace your statics course Does the study of statics stress you out? Does just the thought of mechanics make you rigid? Thanks to this book, you can find balance in the study of this often-intimidating subject and ace even the most challenging university-level courses. Statics For Dummies gives you easy-to-follow, plain-English explanations for everything you need to grasp the study of statics. You'll get a thorough introduction to this foundational branch of engineering and easy-to-follow coverage of solving problems involving forces on bodies at rest; vector algebra; force systems; equivalent force systems; distributed forces; internal forces; principles of equilibrium; applications to trusses, frames, and beams; and friction. Offers a comprehensible introduction to statics Covers all the major topics you'll encounter in university-level courses Plain-English guidance help you grasp even the most confusing concepts If you're currently enrolled in a statics course and looking for a friendlier way to get a handle on the subject, Statics For Dummies has you covered.*

Mechanics of Materials For Dummies

John Wiley & Sons *Your ticket to excelling in mechanics of materials With roots in physics and mathematics, engineering mechanics is the basis of all the mechanical sciences: civil engineering, materials science and engineering, mechanical engineering, and aeronautical and aerospace engineering. Tracking a typical undergraduate course, Mechanics of Materials For Dummies gives you a thorough introduction to this foundational subject. You'll get clear, plain-English explanations of all the topics covered, including principles of equilibrium, geometric compatibility, and material behavior; stress and its relation to force and movement; strain and its relation to displacement; elasticity and plasticity; fatigue and fracture; failure modes; application to simple engineering structures, and more. Tracks to a course that is a prerequisite for most engineering majors Covers key mechanics concepts, summaries of useful equations, and helpful tips From geometric principles to solving complex equations, Mechanics of Materials For Dummies is an invaluable resource for engineering students!*

Orbital Mechanics for Engineering Students

Elsevier *Orbital Mechanics for Engineering Students, Second Edition, provides an introduction to the basic concepts of space mechanics. These include vector kinematics in three dimensions; Newton's laws of motion and gravitation; relative motion; the vector-based solution of the classical two-body problem; derivation of Kepler's equations; orbits in three dimensions; preliminary orbit determination; and orbital maneuvers. The book also covers relative motion and the two-impulse rendezvous problem; interplanetary mission design using patched conics; rigid-body dynamics used to characterize the attitude of a space vehicle; satellite attitude dynamics; and the characteristics and design of multi-stage launch vehicles. Each chapter begins with an outline of key concepts and concludes with problems that are based on the material covered. This text is written for undergraduates who are studying orbital mechanics for the first time and have completed courses in physics, dynamics, and mathematics, including differential equations and applied linear algebra. Graduate students, researchers, and experienced practitioners will also find useful review materials in the book. NEW: Reorganized and improved discussions of coordinate systems, new discussion on perturbations and quaternions NEW: Increased coverage of attitude dynamics, including new Matlab algorithms and examples in chapter 10 New examples and homework problems*

Mechanical Engineering

Handbook For Formulas (GATE, ESE, SSC JE and Other Competitive Exams)

Independently Published *A handbook of Mechanical Engineering For Formulas "Mechanical Engineering Formulas - all subjects formulas with concepts and course outlines are given here. Select your desired course and you can revise all the Formulas within an hour only. When you are a mechanical engineer, you need to know the important formulas during the competitive exams like GATE, ESE and other exams to solve the answers easily using the formula. So, you must know the all-important formulas in the mechanical engineering Subjects. This book is specially prepared for mechanical engineers". Topics Inside Book Si multiples Basic units (distance, area, volume, mass, density) Thermodynamics Thermal engineering Heat transfer Fluid mechanics Strength of materials Theory of machines Machine design Manufacturing Industrial engineering Get the free kindle version of this book by purchasing the Paperback.!*

ERTW: the Road to Engineering

Lulu.com *Are you graduating high school? Thinking of applying to an X-year program? Already in the middle of obtaining a degree or diploma? Do you want to learn more about what can go on in the "university daze"? This book is aimed at young minds in need of a little silliness, a little feedback, and maybe even a little wisdom in taking the journey into the world of university. Learning from others' mistakes is priceless, but don't worry, this book is not. (No illegal, illicit, or unauthorized activities were performed in the making of this book. Really. All that stuff was made up. Fiction.) So, good luck, good reading, and good health... You might need it.*

Machines and Mechanisms

Applied Kinematic Analysis

Provides the techniques necessary to study the motion of machines, and emphasizes the application of kinematic theories to real-world machines consistent with the philosophy of engineering and technology programs. This book intends to bridge the gap between a theoretical study of kinematics and the application to practical mechanism.

Civil Engineering Formulas

McGraw Hill Professional *Instant Access to Civil Engineering Formulas Fully updated and packed with more than 500 new formulas, this book offers a single compilation of all essential civil engineering formulas and equations in one easy-to-use reference. Practical, accurate data is presented in USCS and SI units for maximum convenience. Follow the calculation procedures inside Civil Engineering Formulas, Second Edition, and get precise results with minimum time and effort. Each chapter is a quick reference to a well-defined topic, including: Beams and girders Columns Piles and piling Concrete structures Timber engineering Surveying Soils and earthwork Building structures Bridges and suspension cables Highways and roads Hydraulics, dams, and waterworks Power-generation wind turbines Stormwater Wastewater treatment Reinforced concrete Green buildings Environmental protection*

Business Gamification For Dummies

John Wiley & Sons *The easy way to grasp and use gamification concepts in business Gamification is a modern business strategy that leverages principles from games to influence favorable customer behavior on the web in order to improve customer loyalty, engagement, and retention. Gamification can be used by any department in a company (HR, Sales, Marketing, Engineering, Support, etc.), for any web-based experience (mobile, website, retail, community, etc.). Business Gamification For Dummies explains how you can apply the principles of this strategic concept to your own business model. How gamification evolved from Farmville/Zynga and Facebook and is now something that can be applied to the work environment How to build a successful gamification program How to entice and retain customers using gamification How to drive employee behavior inside your organization Real-world illustrations of gamification at work If you're interested in learning more about this exciting and innovative business strategy, this friendly, down-to-earth guide has you covered.*

Statistics and Probability for Engineering Applications

Elsevier *Statistics and Probability for Engineering Applications provides a complete discussion of all the major topics typically covered in a college engineering statistics course. This textbook minimizes the derivations and mathematical theory, focusing instead on the information and techniques most needed and used in engineering applications. It is filled with practical techniques directly applicable on the job. Written by an experienced industry engineer and statistics professor, this book makes learning statistical methods easier for today's student. This book can be read sequentially like a normal textbook, but it is designed to be used as a handbook, pointing the reader to the topics and sections pertinent to a particular type of statistical problem. Each new concept is clearly and briefly described, whenever possible by relating it to previous topics. Then the student is given carefully chosen examples to deepen understanding of the basic ideas and how they are applied in engineering. The examples and case studies are taken from real-world engineering problems and use real data. A number of practice problems are provided for each section, with answers in the back for selected problems. This book will appeal to engineers in the entire engineering spectrum (electronics/electrical, mechanical, chemical, and civil engineering); engineering students and students taking computer science/computer engineering graduate courses; scientists needing to use applied statistical methods; and engineering technicians and technologists. * Filled with practical techniques directly applicable on the job **

Contains hundreds of solved problems and case studies, using real data sets * Avoids unnecessary theory

Proceedings of the ... International Conference on Offshore Mechanics and Arctic Engineering

Applied Strength of Materials for Engineering Technology

Createspace Independent Publishing Platform This algebra-based text is designed specifically for Engineering Technology students, using both SI and US Customary units. All example problems are fully worked out with unit conversions. Unlike most textbooks, this one is updated each semester using student comments, with an average of 80 changes per edition.

Mechanics of Pneumatic Tires

Engineering Fundamentals: An Introduction to Engineering, SI Edition

Cengage Learning Specifically designed as an introduction to the exciting world of engineering, *ENGINEERING FUNDAMENTALS: AN INTRODUCTION TO ENGINEERING* encourages students to become engineers and prepares them with a solid foundation in the fundamental principles and physical laws. The book begins with a discovery of what engineers do as well as an inside look into the various areas of specialization. An explanation on good study habits and what it takes to succeed is included as well as an introduction to design and problem solving, communication, and ethics. Once this foundation is established, the book moves on to the basic physical concepts and laws that students will encounter regularly. The framework of this text teaches students that engineers apply physical and chemical laws and principles as well as mathematics to design, test, and supervise the production of millions of parts, products, and services that people use every day. By gaining problem solving skills and an understanding of fundamental principles, students are on their way to becoming analytical, detail-oriented, and creative engineers. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Handbook of Industrial Engineering Equations, Formulas, and Calculations

CRC Press The first handbook to focus exclusively on industrial engineering calculations with a correlation to applications, *Handbook of Industrial Engineering Equations, Formulas, and Calculations* contains a general collection of the mathematical equations often used in the practice of industrial engineering. Many books cover individual areas of engineering

Fabricating For Dummies

John Wiley & Sons Work your way to fabricating success People have been hammering metal into shields, cookware, and ceremonial headdresses for centuries, and fabrication continues to be a popular and growing industry today. *Fabricating For Dummies* provides you with all the information you need to begin learning about metalworking, or fill any gaps in your existing knowledge in order to advance your career. Simply put, there's little out there for light reading on manufacturing. What's available is often quite expensive, so boring it puts you to sleep, or filled with so much technical gobbledegook that one's eyes glaze over within a few pages. This book offers a much-needed alternative, cutting through the jargon and getting right to the heart of what you need to know to take your fab skills to fabulous new heights. Get a glimpse of the day in the life of a fab worker Discover the different alloys, shapes, and sizes of sheet metal Understand welding and joining processes Master the use of press brakes, stamping presses, and turret punches Whether you want to get your feet wet with waterjets, laser cutters, or hi-definition plasma cutters, there's something for you inside this hands-on book!

Quantum Physics For Dummies

John Wiley & Sons *Quantum Physics For Dummies, Revised Edition* helps make quantum physics understandable and accessible. From what quantum physics can do for the world to understanding hydrogen atoms, readers will get complete coverage of the subject, along with numerous examples to help them tackle the tough equations. Compatible with classroom text books and courses, *Quantum Physics For Dummies, Revised Edition* lets students study at their own paces and helps them prepare for graduate or professional exams. Coverage includes: The Schrodinger Equation and its Applications The Foundations of Quantum Physics Vector Notation Spin Scattering Theory, Angular Momentum, and more Your plain-English guide to understanding and working with the micro world Quantum physics — also called quantum mechanics or quantumfield theory — can be daunting for even the most dedicated student or enthusiast of science, math, or physics. This friendly, concise guide makes this challenging subject understandable and accessible, from atoms to particles to gases and beyond. Plus, it's packed with fully explained examples to help you tackle the tricky equations like a pro! Compatible with any classroom course — study at your own pace and prepare for graduate or professional exams Your journey begins here — understand what quantum physics is and what kinds of problems it can solve Know the basic math — from state vectors to quantum matrix manipulations, get the foundation you need to proceed Put quantum physics to work — make sense of Schrödinger's equation and handle particles bound in square wells and harmonic oscillators Solve problems in three dimensions — use the full operators to handle wave functions and eigenvectors to find the natural wave functions of a system Discover the latest research — learn the cutting-edge quantum physics theories that aim to explain the universe itself

Mechanical Engineer's Handbook

The *Mechanical Engineer's Handbook* was developed and written specifically to fill a need for mechanical engineers and mechanical engineering students throughout the world. With over 1000 pages, 550 illustrations, and 26 tables the *Mechanical Engineer's Handbook* is very comprehensive, yet affordable, compact, and durable. The Handbook covers all major areas of mechanical engineering with succinct coverage of the definitions, formulas, examples, theory, proofs, and explanations of all principle subject areas. The Handbook is an essential, practical companion for all mechanical engineering students with core coverage of nearly all relevant courses included. Also, anyone preparing for the engineering licensing examinations will find this handbook to be an invaluable aid. Useful analytical techniques provide the student and practicing engineer with powerful tools for mechanical design. This book is designed to be a portable reference with a depth of coverage not found in "pocketbooks" of formulas and definitions and without the verbosity, high price, and excessive size of the huge encyclopedic handbooks. If an engineer needs a quick reference for a wide array of information, yet does not have a full library of textbooks or does not want to spend the extra time and effort necessary to search and carry a six pound handbook, this book is for them. * Covers all major areas of mechanical engineering with succinct coverage of the definitions, formulae, examples, theory, proofs and explanations of all principle subject areas * Boasts over 1000 pages, 550 illustrations, and 26 tables * Is comprehensive, yet affordable, compact, and durable with strong 'flexible' binding * Possesses a true handbook 'feel' in size and design with a full colour cover, thumb index, cross-references and useful printed endpapers

A Student's Guide to Lagrangians and Hamiltonians

Cambridge University Press A concise treatment of variational techniques, focussing on Lagrangian and Hamiltonian systems, ideal for physics, engineering and mathematics students.

Biomechanics For Dummies

John Wiley & Sons A thorough explanation of the tenets of biomechanics At once a basic and applied science, biomechanics focuses on the mechanical cause-effect relationships that determine the motions of living organisms. *Biomechanics for Dummies* examines the relationship between biological and mechanical worlds. It clarifies a vital topic for students of biomechanics who work in a variety of fields, including biological sciences, exercise and sports science, health sciences, ergonomics and human factors, and engineering and applied science. Following the path of a traditional introductory course, *Biomechanics for Dummies* covers the terminology and fundamentals of biomechanics, bone, joint, and muscle composition and function, motion analysis and control, kinematics and kinetics, fluid mechanics, stress and strain, applications of biomechanics, and black and white medical illustrations. Offers insights and expertise in biomechanics to provide an easy-to-follow, jargon-free guide to the subject Provides students who major in kinesiology, neuroscience, biomedical engineering, mechanical engineering, occupational therapy, physical therapy, physical education, nutritional science, and many other subjects with a basic knowledge of biomechanics Students and self-motivated learners interested in biological, applied, exercise, sports, and health sciences should not be without this accessible guide to the fundamentals.

Fundamentals of Nuclear Science and Engineering Second Edition

CRC Press Since the publication of the bestselling first edition, there have been numerous advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering, this book presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition— A chapter on radiation detection by Douglas McGregor Up-to-date coverage of radiation hazards, reactor designs, and medical applications Flexible organization of material that allows for quick reference This edition also takes an in-depth look at particle accelerators, nuclear fusion reactions and devices, and nuclear technology in medical diagnostics and treatment. In addition, the author discusses applications such as the direct conversion of nuclear energy into electricity. The breadth of coverage is unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of *Fundamentals of Nuclear Science and Engineering* is a key reference for any physicists or engineer.

Physics Workbook For Dummies

John Wiley & Sons Do you have a handle on basic physics terms and concepts, but your problem-solving skills could use some static friction? *Physics Workbook for Dummies* helps you build upon what you already know to learn how to solve the most common physics problems with confidence and ease. *Physics Workbook for Dummies* gets the ball rolling with a brief overview of the nuts and bolts (i.e.,

converting measures, counting significant figures, applying math skills to physics problems, etc.) before getting into the nitty gritty. If you're already a pro on the fundamentals, you can skip this section and jump right into the practice problems. There, you'll get the lowdown on how to take your problem-solving skills to a whole new plane—without ever feeling like you've been left spiraling down a black hole. With easy-to-follow instructions and practical tips, *Physics Workbook for Dummies* shows you how to you unleash your inner Einstein to solve hundreds of problems in all facets of physics, such as: Acceleration, distance, and time Vectors Force Circular motion Momentum and kinetic energy Rotational kinematics and rotational dynamics Potential and kinetic energy Thermodynamics Electricity and magnetism Complete answer explanations are included for all problems so you can see where you went wrong (or right). Plus, you'll get the inside scoop on the ten most common mistakes people make when solving physics problems—and how to avoid them. When push comes to shove, this friendly guide is just what you need to set your physics problem-solving skills in motion!

Principles of Foundation Engineering

Cengage Learning Master the core concepts and applications of foundation analysis and design with Das/Sivakugan's best-selling *PRINCIPLES OF FOUNDATION ENGINEERING*, 9th Edition. Written specifically for those studying undergraduate civil engineering, this invaluable resource by renowned authors in the field of geotechnical engineering provides an ideal balance of today's most current research and practical field applications. A wealth of worked-out examples and figures clearly illustrate the work of today's civil engineer, while timely information and insights help readers develop the critical skills needed to properly apply theories and analysis while evaluating soils and foundation design. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Fox and McDonald's Introduction to Fluid Mechanics

John Wiley & Sons Through ten editions, *Fox and McDonald's Introduction to Fluid Mechanics* has helped students understand the physical concepts, basic principles, and analysis methods of fluid mechanics. This market-leading textbook provides a balanced, systematic approach to mastering critical concepts with the proven Fox-McDonald solution methodology. In-depth yet accessible chapters present governing equations, clearly state assumptions, and relate mathematical results to corresponding physical behavior. Emphasis is placed on the use of control volumes to support a practical, theoretically-inclusive problem-solving approach to the subject. Each comprehensive chapter includes numerous, easy-to-follow examples that illustrate good solution technique and explain challenging points. A broad range of carefully selected topics describe how to apply the governing equations to various problems, and explain physical concepts to enable students to model real-world fluid flow situations. Topics include flow measurement, dimensional analysis and similitude, flow in pipes, ducts, and open channels, fluid machinery, and more. To enhance student learning, the book incorporates numerous pedagogical features including chapter summaries and learning objectives, end-of-chapter problems, useful equations, and design and open-ended problems that encourage students to apply fluid mechanics principles to the design of devices and systems.

Aeronautical Engineer's Data Book

Elsevier *Aeronautical Engineer's Data Book* is an essential handy guide containing useful up to date information regularly needed by the student or practising engineer. Covering all aspects of aircraft, both fixed wing and rotary craft, this pocket book provides quick access to useful aeronautical engineering data and sources of information for further in-depth information. Quick reference to essential data Most up to date information available

Formulas for Structural Dynamics: Tables, Graphs and Solutions

McGraw Hill Professional * This information-rich reference book provides solutions to the architectural problem of vibrations in beams, arches and frames in bridges, highways, buildings and tunnels * A must-have for structural designers and civil engineers, especially those involved in the seismic design of buildings * Well-organized into problem-specific chapters, and loaded with detailed charts, graphs, and necessary formulas

Physics II For Dummies

John Wiley & Sons A plain-English guide to advanced physics Does just thinking about the laws of motion make your head spin? Does studying electricity short your circuits? *Physics II For Dummies* walks you through the essentials and gives you easy-to-understand and digestible guidance on this often intimidating course. Thanks to this book, you don't have to be Einstein to understand physics. As you learn about mechanical waves and sound, forces and fields, electric potential and electric energy, and much more, you'll appreciate the For Dummies law: The easier we make it, the faster you'll understand it! An extension of the successful *Physics I For Dummies* Covers topics in a straightforward and effective manner Explains concepts and terms in a fast and easy-to-understand way Whether you're currently enrolled in an undergraduate-level *Physics II* course or just want a refresher on the fundamentals of advanced physics, this no-nonsense guide makes this fascinating topic accessible to everyone.

Standard Handbook of Machine Design

McGraw-Hill Professional Publishing The latest ideas in machine analysis and design have led to a major revision of the field's leading handbook. New chapters cover ergonomics, safety, and computer-aided design, with revised information on numerical methods, belt devices, statistics, standards, and codes and regulations. Key features include: *new material on ergonomics, safety, and computer-aided design; *practical reference data that helps machine designers solve common problems—with a minimum of theory. *current CAS/CAM applications, other machine computational aids, and robotic applications in machine design. This definitive machine design handbook for product designers, project engineers, design engineers, and manufacturing engineers covers every aspect of machine construction and operations. Voluminous and heavily illustrated, it discusses standards, codes and regulations; wear; solid materials, seals; flywheels; power screws; threaded fasteners; springs; lubrication; gaskets; coupling; belt drive; gears; shafting; vibration and control; linkage; and corrosion.

Pocket Guide to Chemical Engineering

Gulf Professional Publishing Here, in a compact, easy-to-use format, are practical tips, handy formulas, correlations, curves, charts, tables, and shortcut methods that will save engineers valuable time and effort. Hundreds of common sense techniques and calculations help users quickly and accurately solve day-to-day design, operations, and equipment problems.

Engineering Mathematics with Examples and Applications

Academic Press *Engineering Mathematics with Examples and Applications* provides a compact and concise primer in the field, starting with the foundations, and then gradually developing to the advanced level of mathematics that is necessary for all engineering disciplines. Therefore, this book's aim is to help undergraduates rapidly develop the fundamental knowledge of engineering mathematics. The book can also be used by graduates to review and refresh their mathematical skills. Step-by-step worked examples will help the students gain more insights and build sufficient confidence in engineering mathematics and problem-solving. The main approach and style of this book is informal, theorem-free, and practical. By using an informal and theorem-free approach, all fundamental mathematics topics required for engineering are covered, and readers can gain such basic knowledge of all important topics without worrying about rigorous (often boring) proofs. Certain rigorous proof and derivatives are presented in an informal way by direct, straightforward mathematical operations and calculations, giving students the same level of fundamental knowledge without any tedious steps. In addition, this practical approach provides over 100 worked examples so that students can see how each step of mathematical problems can be derived without any gap or jump in steps. Thus, readers can build their understanding and mathematical confidence gradually and in a step-by-step manner. Covers fundamental engineering topics that are presented at the right level, without worry of rigorous proofs Includes step-by-step worked examples (of which 100+ feature in the work) Provides an emphasis on numerical methods, such as root-finding algorithms, numerical integration, and numerical methods of differential equations Balances theory and practice to aid in practical problem-solving in various contexts and applications

The Nature of Expertise

Psychology Press Due largely to developments made in artificial intelligence and cognitive psychology during the past two decades, expertise has become an important subject for scholarly investigations. *The Nature of Expertise* displays the variety of domains and human activities to which the study of expertise has been applied, and reflects growing attention on learning and the acquisition of expertise. Applying approaches influenced by such disciplines as cognitive psychology, artificial intelligence, and cognitive science, the contributors discuss those conditions that enhance and those that limit the development of high levels of cognitive skill.

The Cambridge Handbook of Physics Formulas

Cambridge University Press An invaluable quick-reference aid of more than 2000 of the most useful maths and physics formulas.

Practical Engineer

Statics – Formulas and Problems

Engineering Mechanics 1

Springer This book contains the most important formulas and more than 160 completely solved problems from Statics. It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems. Particular emphasis is placed on finding the solution path and formulating the basic equations. Topics include: - Equilibrium - Center of Gravity, Center of Mass, Centroids - Support Reactions - Trusses - Beams, Frames, Arches - Cables - Work and Potential Energy - Static and Kinetic Friction - Moments of Inertia

Occupational Outlook Handbook

Structural Engineer's Pocket Book

Elsevier Until now there has been no comprehensive pocket reference guide for professional and student structural engineers. The Structural Engineers Pocket Book is a unique compilation of all table, data, facts, formulae and rules of thumb needed for scheme design by structural engineers in the office, in transit or on site. By bringing together data from many sources, this pocket book is a compact source of job-simplifying information at an affordable price. It is a first point of reference as well as saving valuable time spent trying to track down information that is needed on a daily basis. This may be a small book in terms of its physical dimensions, but it contains a wealth of useful engineering knowledge. Concise and precise, the book is split into 13 sections, with quick and clear access to subject areas including: timber, masonry, concrete, aluminium and glass. British Standards are used and referenced throughout. *the only book of its kind for structural engineers. *brings together information from many different sources for the first time. *comprehensive, yet concise and affordable.

Thermodynamics For Dummies

John Wiley & Sons Take some heat off the complexity of thermodynamics Does the mere thought of thermodynamics make you sweat? It doesn't have to! This hands-on guide helps you score your highest in a thermodynamics course by offering easily understood, plain-English explanations of how energy is used in things like automobiles, airplanes, air conditioners, and electric powerplants. Thermodynamics 101 — take a look at some examples of both natural and man-made thermodynamic systems and get a handle on how energy can be used to perform work Turn up the heat — discover how to use the first and second laws of thermodynamics to determine (and improve upon) the efficiency of machines Oh, behave — get the 411 on how gases behave and relate to one another in different situations, from ideal-gas laws to real gases Burn with desire — find out everything you need to know about conserving mass and energy in combustion processes Open the book and find: The laws of thermodynamics Important properties and their relationships The lowdown on solids, liquids, and gases How work and heat go hand in hand The cycles that power thermodynamic processes Chemical mixtures and reactions Ten pioneers in thermodynamics Real-world applications of thermodynamic laws and concepts Learn to: Master the concepts and principles of thermodynamics Develop the problem-solving skills used by professional engineers Ace your thermodynamics course

Advanced Engineering Mathematics

Pearson New International Edition

Appropriate for one- or two-semester Advanced Engineering Mathematics courses in departments of Mathematics and Engineering. This clear, pedagogically rich book develops a strong understanding of the mathematical principles and practices that today's engineers and scientists need to know. Equally effective as either a textbook or reference manual, it approaches mathematical concepts from a practical-use perspective making physical applications more vivid and substantial. Its comprehensive instructional framework supports a conversational, down-to-earth narrative style offering easy accessibility and frequent opportunities for application and reinforcement.

Mechanics of Materials – Formulas and Problems

Engineering Mechanics 2

Springer This book contains the most important formulas and more than 140 completely solved problems from Mechanics of Materials and Hydrostatics. It provides engineering students material to improve their skills and helps to gain experience in solving engineering problems. Particular emphasis is placed on finding the solution path and formulating the basic equations. Topics include: - Stress - Strain - Hooke's Law - Tension and Compression in Bars - Bending of Beams - Torsion - Energy Methods - Buckling of Bars - Hydrostatics

Engineering Ethics: Concepts and Cases

Cengage Learning Bridging the gap between theory and practice, ENGINEERING ETHICS, Fifth Edition, will help you quickly understand the importance of your conduct as a professional and how your actions can affect the health, safety, and welfare of the public. ENGINEERING ETHICS, Fifth Edition, provides dozens of diverse engineering cases and a proven and structured method for analyzing them; practical application of the Engineering Code of Ethics; focus on critical moral reasoning as well as effective organizational communication; and in-depth treatment of issues such as sustainability, acceptable risk, whistle-blowing, and globalized standards for engineering. Additionally, a new companion website offers study questions, self-tests, and additional case studies. Available with InfoTrac Student Collections <http://go.cengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Advanced Mechanics of Materials

Wiley Global Education