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Pearson introduces yet another textbook from Professor R. C. Hibbeler - Fluid Mechanics in SI Units - which continues the author's commitment to empower students to master the subject.

The 7th edition of this classic text continues to provide the same high quality material seen in previous editions. The text is extensively rewritten with updated prose for content clarity, superb new problems in new application areas, outstanding

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instruction on drawing free body diagrams, and new electronic supplements to assist readers. Furthermore, this edition offers more Web-based problem solving to practice solving problems, with immediate feedback; computational mechanics booklets offer flexibility in introducing Matlab, MathCAD, and/or Maple into your mechanics classroom; electronic figures from the text to enhance lectures by pulling material from the text into Powerpoint or other lecture formats; 100+ additional electronic transparencies offer problem statements and fully worked solutions for use in lecture or as outside study tools.

Praised for its accessible tone and extensive problem sets, this trusted text familiarizes students with the universal principles of engineering economics. This essential

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introduction features a wealth of specific Canadian examples and has been fully updated with new coverage of inflation and environmental stewardship as well as a new chapter on project management.

Engineering Mechanics: Statics, SI Edition

SI Version. Statics

Dynamics of Structures

Books in Print

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For the past forty years Beer and Johnston have been the uncontested leaders in the teaching of undergraduate engineering mechanics. Their careful presentation of content, unmatched levels of accuracy,

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and attention to detail have made their texts the standard for excellence. The revision of their classic Mechanics of Materials text features a new and updated design and art program; almost every homework problem is new or revised; and extensive content revisions and text reorganizations have been made. The multimedia supplement package includes an extensive strength of materials Interactive Tutorial (created by George Staab and Brooks Breeden of The Ohio State University) to provide students with additional help on key concepts, and a custom book website offers online resources for both instructors and students.

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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

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homework system.

Fundamentals of Engineering Economics

Solution Manual

Books in Print Supplement

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**presents the fundamental concepts
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that connect with today's students.**

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coverage of all fundamental topics of engineering economics.

New edition of the popular textbook, comprehensively updated throughout and now includes a new dedicated website for gas dynamic calculations The thoroughly revised and updated third edition of Fundamentals of Gas Dynamics maintains the focus on gas flows below hypersonic. This targeted approach provides a cohesive and rigorous examination of most practical

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includes new sections on the shock tube, the aerospike nozzle, and the gas dynamic laser. The book contains all equations, tables, and charts necessary to work the problems and exercises in each chapter. This book's accessible but rigorous style: Offers a comprehensively updated edition that includes new problems and examples Covers fundamentals of gas flows targeting those below hypersonic Presents the one-dimensional flow approach and

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highlights the role of temperature-entropy diagrams Contains new sections that examine the shock tube, the aerospoke nozzle, the gas dynamic laser, and an expanded coverage of rocket propulsion Explores applications of gas dynamics to aircraft and rocket engines Includes behavioral objectives, summaries, and check tests to aid with learning Written for students in mechanical and aerospace engineering and professionals and researchers in the

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field, the third edition of Fundamentals of Gas Dynamics has been updated to include recent developments in the field and retains all its learning aids. The calculator for gas dynamics calculations is available at <https://www.oscarbiblarz.com/gascalculator> gas dynamics calculations

Mechanics of Materials

Introductory Statistics

Engineering Mechanics - Statics

Masteringengineering

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For undergraduate Mechanics of Materials courses in Mechanical, Civil, and Aerospace Engineering departments. Hibbeler continues to be the most student friendly text on the market. The new edition offers a new four-color, photorealistic art program to help students better visualize difficult concepts. Hibbeler continues to have over 1/3 more examples than its competitors, Procedures for Analysis problem solving sections, and a simple, concise writing style. Each chapter is organized into well-defined units that offer

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Intended primarily for teaching dynamics of

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structures to advanced undergraduates and graduate students in civil engineering departments, this text is the solutions manual to Dynamics of Structures, 2nd edition, which should provide an effective reference for researchers and practising engineers. The main text aims to present state-of-the-art methods for assessing the seismic performance of structure/foundation systems and includes information on earthquake engineering, taken from case examples.

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Theory of Gyroscopic Effects for Rotating Objects

Fundamentals of Gas Dynamics

Statics and Mechanics of Materials

International Economics

In this edition, Chapter 1 includes various approaches to problem solving, especially those involving the use of the free-body diagrams, programmable calculators, and computers. The heart of the book is Chapter 3, in which the authors analyse equilibrium problems.

Applications include: shear and bending moment

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diagrams; special applications of Coulomb friction; Mohr's circle; the principle of virtual work; and hydrostatic pressure on submerged bodies.

This title is designed for senior-level and graduate courses in Dynamics of Structures and Earthquake Engineering. The new edition from Chopra includes many topics encompassing the theory of structural dynamics and the application of this theory regarding earthquake analysis, response, and design of structures. No prior knowledge of structural dynamics is assumed

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and the manner of presentation is sufficiently detailed and integrated, to make the book suitable for self-study by students and professional engineers.

Offers a concise yet thorough presentation of engineering mechanics theory and application. The material is reinforced with numerous examples to illustrate principles and imaginative, well-illustrated problems of varying degrees of difficulty. The book is committed to developing users' problem-solving skills. Features "Photorealistic" figures (over 400) that have been

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rendered in often 3D photo quality detail to appeal to visual learners. Presents a thorough combination of both static and dynamic engineering mechanics theory and applications. Features a large variety of problem types from a broad range of engineering disciplines, stressing practical, realistic situations encountered in professional practice, varying levels of difficulty, and problems that involve solution by computer. For professionals in mechanical engineering, civil engineering, aeronautical engineering, and engineering mechanics careers.

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Engineering Economic Analysis

An Introduction to Statics

Statics

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 two 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

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This textbook teaches students the basic mechanical behaviour of materials at rest (statics), while developing their mastery of engineering methods of analysing and solving problems.

Containing Hibbelers hallmark student-oriented features

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this text is in four-colour with a photo realistic art program designed to help students visualise difficult concepts. A clear, concise writing style and more examples than any other text further contribute to student ability to master the material.

Engineering Mechanics

Statics & dynamics

Gyroscopic Effects and Applications

Thermodynamics

The 4th Edition of Cengel & Boles

Thermodynamics: An Engineering Approach

takes thermodynamics education to the next

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level through its intuitive and innovative approach. A long-time favorite among students and instructors alike because of its highly engaging, student-oriented conversational writing style, this book is now the to most widely adopted thermodynamics text in theU.S. and in the world.

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how students learn inside and outside of lecture. This text is ideal for civil and mechanical engineering professionals.

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For introductory combined Statics and Mechanics of Materials courses found in ME, CE, AE, and Engineering Mechanics departments. Statics and Mechanics of Materials provides a comprehensive and well-illustrated introduction to the

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*DeGarmo's Materials and Processes in
Manufacturing*

Dynamics

Statics and dynamics

*Solutions Manual Accompanying "Engineering
Mechanics: Statics 10th Edition"*

*This book is carefully designed and
correlated to the thirteen telecourse*

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video programs to enrich your understanding of economic principles. This book highlights an analytical solution for the dynamics of axially rotating objects. It also presents the theory of gyroscopic effects, explaining their physics and using mathematical models of Euler's form for the motion of movable spinning objects to demonstrate these effects. The major themes and approaches are represented by the spinning disc and the action of the system of interrelated inertial torques generated by

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the centrifugal and Coriolis forces, as well as the change in the angular momentum. The interrelation of inertial torques is based on the dependency of the angular velocities of the motions of the spinning objects around axes by the principle of mechanical energy conservation. These kinetically interrelated torques constitute the fundamental principles of the mechanical gyroscope theory that can be used for any rotating objects of different designs, like rings, cones, spheres, paraboloids,

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propellers, etc. Lastly, the mathematical models for the gyroscopic effects are validated by practical tests. The 2nd edition became necessary due to new development and corrections of mathematical expressions: It contains new chapters about the Tippe top inversion and inversion of the spinning object in an orbital flight and the boomerang aerodynamics.

Dynamic objects move in mysterious ways. Their analysis is a difficult subject involving matrices, differential equations

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and the complex algebra of oscillatory systems. However, in this textbook, the author draws on his long experience of designing autopilots, robots for nuclear inspection and agricultural machine guidance to present the essentials with a light touch. The emphasis is on a deep understanding of the fundamentals rather than rote-learning of techniques. The inertia tensor is presented as a key to understanding motion ranging from boomerangs to gyroscopes. Chains of transformations unravel the motion of a

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robot arm. To help the reader visualise motion, ranging from unbalanced rotors to vibrating systems with multiple modes and damping, there are abundant simulation examples on a linked website. These will run in any web browser, while their simple code is on open view for modification and experimentation. They show that nonlinear systems present no problems, so that friction damping can be modelled with ease. A particular problem for mechanical engineers is that the vibration topics encroach on the territory of the

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electrical engineer. State variables open up control theory while the solution of differential equations with sinusoidal inputs is simplified by an understanding of sine-waves as complex exponentials. The linked web site has several areas of mathematics revision to help. A final chapter pokes fun at the misrepresentation of dynamics in cinema productions.

An Engineering Approach

Fundamentals of Fluid Mechanics

Essentials of Dynamics and Vibrations

Fluid Mechanics in SI Units

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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

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standard formulas. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Newly revised for its twelfth edition, DeGarmo's Materials and Processes in Manufacturing, 12th Edition continues to be a market-leading text on manufacturing and manufacturing processes courses for over fifty years. Authors J T. Black and Ron Kohser have continued this book's long and distinguished tradition of exceedingly clear presentation and highly practical approach to materials and processes, presenting mathematical models and analytical equations only when they

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enhance the basic understanding of the material. Updated to reflect all current practices, standards, and materials, the twelfth edition has new coverage of additive manufacturing, lean engineering, and processes related to ceramics, polymers, and plastics.