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Edition includes new Preliminary Problems, which are intended to help students develop conceptual understanding and build problem-solving skills. The text features a large variety of problems from a broad range of engineering disciplines, stressing practical, realistic situations encountered in professional practice, and having varying levels of difficulty. Also Available with MasteringEngineering -- an online homework, tutorial, and assessment program designed to work with this text to engage students and improve results. Interactive, self-paced tutorials provide individualized coaching to help students stay on track. With a wide range of activities available, students can actively learn, understand, and retain even the most difficult concepts. The text and MasteringEngineering work together to guide students through engineering concepts with a multi-step approach to problems.

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Structural Analysis Pearson College Division

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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 homework system.

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Containing Hibbelers hallmark student-oriented features, 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 students ability to master the material.

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A world list of books in the English language.

Includes authors, titles, subjects.

This book represents a combined abridged version of two of the author's books, namely Engineering Mechanics : Statics, twelfth edition in SI units and Mechanics of materials, eight edition

The main properties that make carbon nanotubes (CNTs) a promising technology for many future applications are: extremely high strength, low mass density, linear elastic behavior, almost perfect geometrical structure, and nanometer scale structure. Also, CNTs can conduct electricity better than copper and transmit heat better than diamonds. Therefore, they are bound to find a wide, and possibly revolutionary use in all fields of engineering. The interest in CNTs and their potential use in a wide range of commercial applications; such as nanoelectronics, quantum wire interconnects, field emission devices, composites, chemical sensors, biosensors, detectors, etc.; have rapidly increased in the last two decades. However, the performance of any CNT-based nanostructure is

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the latest developments in innovative and integrative technologies and solutions in structural engineering and construction, including: Concrete, masonry, steel and composite structures; Dynamic impact and earthquake engineering; Bridges and
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This best-selling book offers a concise and 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 its users' problem-solving skills and includes pedagogical features that have made Hibbeler synonymous with excellence in the field. Chapter topics cover general principles, force vectors, equilibrium of a particle, force system resultants, equilibrium of a rigid body, structural analysis, internal forces, friction, center of gravity and centroid, moments of inertia, virtual work, kinematics of a particle, kinetics of a particle: force and acceleration, kinetics of a particle: work and energy, kinetics of a particle: impulse and momentum, planar kinematics of a rigid body, planar kinetics of a rigid body: force and acceleration, planar kinetics of a rigid body: work and energy, planar kinetics of a rigid body: impulse and momentum, three-dimensional kinematics of a rigid body, three-dimensional kinetics of a rigid body, and vibrations. For individuals involved in the study of mechanical/civil/aeronautical engineering.

This text provides a clear, comprehensive presentation of both the theory and applications of mechanics of materials. It looks at the physical behaviour of materials under load, then proceeds to model this behaviour to development theory.

This resource covers all areas of interest for the practicing engineer as well as for

