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 He received the departmental award for Leadership in Use of Technology in 2013 for his pioneering use of lecture capture technologies in undergraduate statics and mechanics of materials courses at Georgia Tech. Dr. Goodno is also a member of the Earthquake Engineering Research Institute (EER) and has held leadership positions within the NSF-funded Mid-America Earthquake Center (MAE ...

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**Statics and mechanics of materials / R.C. Hibbeler. — Franklin**  
 Description For introductory combined Statics and Mechanics of Materials courses found in ME, CE, AE, and Engineering Mechanics departments. A comprehensive and well-illustrated introduction to the theory and application of statics and mechanics of materials.

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**Master two essential subjects in engineering mechanics -- statics and mechanics of materials -- with the rigorous, complete, and integrated treatment found in STATICS AND MECHANICS OF MATERIALS.** This book helps readers establish a strong foundation for further study in mechanics that is essential for mechanical, structural, civil, biomedical, petroleum, nuclear, aeronautical, and aerospace engineers. The authors present numerous practical problems based on real structures, using state-of-the-art graphics, photographs, and detailed drawings of free-body diagrams. All example problems and end-of-chapter problem follow a comprehensive, organized, and systematic Four-Step Problem-Solving Approach to help readers strengthen important problem-solving skills and gain new insight into methods for dissecting and solving problems. The free website also contains nearly 200 FE-type review problems to help prepare for success on the FE Exams. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This textbook provides students with a foundation in the general procedures and principles of the mechanical design process. It introduces students to solving force systems, selecting components and determining resultants in equilibrium. Strength failures of various materials will also be presented. In addition, the author has includes information about how to -- analyze and solve problems involving force systems, components, resultants and equilibrium; determine center of gravity and centroids of members and objects; identify moment of inertia of objects; analyze simple structures under linear stress and strain; investigate the effects of torsion on shafts and springs; find the load, stress and deflection on beams; and analyze structures subjected to combined loading.

This book presents the foundations and applications of statics and mechanics of materials by emphasizing the importance of visual analysis of topics—especially through the use of free body diagrams. It also promotes a problem-solving approach to solving examples through its strategy, solution, and discussion format in examples. The authors further include design and computational examples that help integrate these ABET 2000 requirements. Chapter topics include vectors, forces, systems of forces and moments, objects in equilibrium, structures in equilibrium, centroids and centers of mass centroids, moments of inertia, measures of stress and strain, states of stress, states of strain and the stress-strain relations, axially loaded bars, torsion, internal forces and moments in beams, stresses in beams, deflections of beams, buckling of columns, energy methods, and introduction to fracture mechanics. For civil/aeronautical/engineering mechanics.

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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!

The aim of this book is to present the basic concepts of mechanics of materials to beginners in a simplified and an organized way. Some knowledge of general mechanics is assumed as a prerequisite. More advanced topics are not covered in this presentation to avoid unnecessary confusion. The advantages and disadvantages of two common building materials, namely, reinforced concrete and steel, are listed in order to make comparison between the two materials and to make the reader able to select proper material of construction for a particular project. The basics of the design procedure are also explained in order to introduce the concept to the beginners. Basic tests performed on structural steel are also discussed in brief. Both SI and US Customary units are used throughout the book to make it a general reference. It is hoped that this book will also serve as a quick guide for the experienced engineers. Suggestions for further improvement of the presentation will be highly appreciated and will be incorporated in the future editions.

The second edition of Statics and Mechanics of Materials: An Integrated Approach continues to present students with an emphasis on the fundamental principles, with numerous applications to demonstrate and develop logical, orderly methods of procedure. Furthermore, the authors have taken measure to ensure clarity of the material for the student. Instead of deriving numerous formulas for all types of problems, the authors stress the use of free-body diagrams and the equations of equilibrium, together with the geometry of the deformed body and the observed relations between stress and strain, for the analysis of the force system action of a body.

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 instructors great flexibility in course emphasis. Hibbeler continues a fluid writing style, cohesive organization, outstanding illustrations, and dynamic use of exercises, examples, and free body diagrams to help prepare tomorrow's engineers.

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