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This leading book in the field focuses on what materials specifications and design are most effective based on function and actual load-carrying capacity. Written in an accessible style, it emphasizes the basics, such as design, equilibrium, material behavior and geometry of deformation in simple structures or machines. Readers will also find a thorough treatment of stress, strain, and the stress-strain relationships. These topics are covered before the customary treatments of axial loading, torsion, flexure, and buckling.

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This leading book in the field focuses on what materials specifications and design are most effective based on function and actual load-carrying capacity. Written in an accessible style, it emphasizes the basics, such as design, equilibrium, material behaviour and geometry of deformation in simple structures or machines. Readers will also find a thorough treatment of stress, strain, and the stress-strain relationships. These topics are covered before the customary treatments of axial loading, torsion, flexure, and buckling.

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This systematic exploration of real-world stress analysis has been completely updated to reflect state-of-the-art methods and applications now used in aeronautical, civil, and mechanical engineering, and engineering mechanics. Distinguished by its exceptional visual interpretations of solutions, Advanced Mechanics of Materials and Applied Elasticity offers in-depth coverage for both students and engineers. The authors carefully balance comprehensive treatments of solid mechanics, elasticity, and computer-oriented numerical methods—preparing readers for both advanced study and professional practice in design and analysis. This major revision contains many new, fully reworked, illustrative examples and an updated problem set—including many problems taken directly from modern practice. It offers extensive content improvements throughout, beginning with an all-new introductory chapter on the fundamentals of materials mechanics and elasticity. Readers will find new and updated coverage of plastic behavior, three-dimensional Mohr's circles, energy and variational methods, materials, beams, failure criteria, fracture mechanics, compound cylinders, shrink fits, buckling of stepped columns, common shell types, and many other topics. The authors present significantly expanded and updated coverage of stress concentration factors and contact stress developments. Finally, they fully introduce computer-oriented approaches in a comprehensive new chapter on the finite element method.

Market_Desc: Senior and Graduate Students, Practicing Engineers. Special Features: · Thorough and detailed development of theory of stress, theory of strain, and theory of stress-strain relations helps

establish the theoretical basis for continued study of mechanics and elasticity.· Complete treatment of classical topics of advanced mechanics. Topics are thoroughly developed from first principles, enabling students to develop an understanding of the source of the equations and the limitations of their application.· Expanded elementary material, including more elementary examples and problems, helps to ease the transition from elements of mechanics of materials to advanced problems.· New and revised examples and problems throughout the text.· New section on strain energy of axially loaded springs.· Revised coverage of deflections of statically indeterminate structures.· Development of relationships between Lamé's Coefficients and modulus of elasticity and Poisson's ratio; explicit presentation of plane stress, plane strain and axially symmetric stress-strain relations.· New sections and problems on the rotating disk, and low-cycle fatigue.· New section on the torsion of rectangular cross sections.· Additional material on the torsion of box beams. About The Book: The sixth edition is updated and reorganized, each of the topics is thoroughly developed from fundamental principles. The assumptions, applicability and limitations of the methods are clearly discussed. Includes such advanced subjects as plasticity, creep, fracture, mechanics, flat plates, high cycle fatigue, contact stresses and finite elements. Due to the widespread use of the metric system, SI units are used throughout.

Publisher description

For undergraduate Mechanics of Materials courses in Mechanical, Civil, and Aerospace Engineering departments. Thorough coverage, a highly visual presentation, and increased problem solving from an author you trust. Mechanics of Materials clearly and thoroughly presents the theory and supports the application of essential mechanics of materials principles. Professor Hibbeler's concise writing style, countless examples, and stunning four-color photorealistic art program — all shaped by the comments and suggestions of hundreds of colleagues and students — help students visualize and master difficult concepts. The Tenth SI Edition retains the hallmark features synonymous with the Hibbeler franchise, but has been enhanced with the most current information, a fresh new layout, added problem solving, and increased flexibility in the way topics are covered in class. Also available with MasteringEngineering™. This title is 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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