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Strength of materials, also called mechanics of materials, deals with the behavior of solid objects subject to stresses and strains.The complete theory began with the consideration of the behavior of one and two dimensional members of structures, whose states of stress can be approximated as two dimensional, and was then generalized to three dimensions to develop a more complete theory of the ...

Strength of materials - Wikipedia
Focusing on the fundamentals of material statics and strength, applied statics and strength of materials, Fifth Edition presents a non-Calculus-based, elementary, analytical, and practical approach, with rigorous, comprehensive example problems that follow the explanation of theory and very complete homework problems that allow trainees to practice the material.

This book discusses key topics in strength of materials,emphasizing applications, problem solving, and design of structural members, mechanical devices, and systems. It covers covers basic concepts, design properties of materials, design of members under direct stress, axial deformation and thermal stresses, torsional shear stress and torsional deformation, shearing forces and bending moments in beams, centroids and moments of inertia of areas, stress due to bending, shearing stresses in beams, special cases of combined stresses, the general case of combined stress and Mohr’s circle, beam deflections, statically indeterminate beams, columns, and pressure vessels.

This book provides comprehensive coverage of the key topics in strength of materials—with an emphasis on applications, problem solving, and design of structural members, mechanical devices and systems. It includes coverage of the latest tools, trends and analysis techniques, and makes great use of example problems. Chapter topics include basic concepts; design properties of materials; design of members under direct stress; axial deformation and thermal stresses; torsional shear stress and torsional deformation; shearing forces and bending moments in beams; centroids and moments of inertia of areas; stress due to bending; shearing stresses in beams; special cases of combined stresses; the general case of combined stress and Mohr’s circle; beam deflections; statically indeterminate beams; columns; and pressure vessels. For practicing mechanical designers and engineers.

Designed for a first course in strength of materials, Applied Strength of Materials has long been the bestseller for Engineering Technology programs because of its comprehensive coverage, and its emphasis on sound fundamentals, applications, and problem-solving techniques. The combination of clear and consistent problem-solving techniques, numerous end-of-chapter problems, and the integration of both analysis and design approaches to strength of materials principles prepares students for subsequent courses and professional practice. The fully updated Sixth Edition. Built around an educational philosophy that stresses active learning, consistent reinforcement of key concepts, and a strong visual component, Applied Strength of Materials, Sixth Edition continues to offer the readers the most thorough and understandable approach to mechanics of materials.

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.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. ¿This resource provides the necessary background in mechanics that is essential in many fields, such as civil, mechanical, construction, architectural, industrial, and manufacturing technologies. The focus is on the fundamentals of material statics and strength and the information is presented using an elementary, analytical, practical approach, without the use of Calculus. To ensure understanding of the concepts, rigorous, comprehensive example problems follow the explanations of theory, and numerous homework problems at the end of each chapter allow for class examples, homework problems, or additional practice for students. Updated and completely reformatted, the Sixth Edition of Applied Statics and Strength of Materials features color in the illustrations, chapter-opening Learning Objectives highlighting major topics, updated terminology changed to be more consistent with design codes, and the addition of units to all calculations.

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 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.

Rev. ed. of: Advanced strength and applied elasticity. 4th ed. c2003.

