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Statics and Strength of Materials **Statics and Strength of Materials** Statics and Strength of Materials Statics and Strength of Materials **Statics and Strength of Materials** **Statics and Strength of Materials** **Applied Statics and Strength of Materials** *Statics and Strength of Materials* **Technical Statics and Strength of Materials** Statics and Strength of Materials Statics and Strength of Materials *Statics and Strength of Materials for Architecture and Building Construction* *Applied Statics and Strength of Materials* **Statics and Strength of Materials** **Applied Statics and Strength of Materials** Statics and Strength of Materials Statics and Strength of Materials *Statics and Strength of Materials* *Statics and Strength of Materials* *Engineering Mechanics: Statics and Strength of Materials* Statics and Strength of Materials **Engineering Mechanics: Statics and Strength of Materials** **Statics and Strength of Materials for Technology** *Elementary Statics and Strength of Materials* **Statics and strength of materials** Statics and Strength of Materials Statics & Strength of Materials for Technology **Applied Statics and Strength of Materials** *Essential Mechanics - Statics and Strength of Materials with MATLAB and Octave* Applied Statics and Strength of Materials **Statics and Strength of Materials** Principles of Statics and Strength of Materials *Statics and Strength of Materials for Construction, Engineering Technology, and Architecture* **Statics and Strength of Materials** Statics and Strength of Materials **Statics and Strength of Materials** *Applied Statics, Strength of Materials, and Building Structure Design* Applied Statics and Strength of Materials Statics and Mechanics of Structures Principles of Statics and Strength of Materials

This book provides students and industry professionals with the necessary statics and strength of materials background for more innovative approaches to particular fields of engineering technology, construction engineering and management, civil engineering, and architectural technology. 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 included 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. Resultant and equilibrant of forces. Properties of materials. Combined stresses. Computer programs. For one/two-semester, undergraduate-level courses in Statics and Strength of Materials, Engineering Mechanics, and Strength of Materials. Focusing on mastery of the basics, this book presents a non-Calculus based elementary, analytical, and practical approach to the principles and physical concepts of Statics and Strength of Materials. It features a rigorous, comprehensive step-by-step problem solving approach; an abundance of worked-out example problems and homework problems; and a focus on principles and applications applicable to many fields of engineering technology e.g., civil, mechanical, construction, architectural, industrial, and manufacturing. This text covers the topics of statics and

strength of materials at a level that is appropriate for industrial technology and engineering technology programs, as well as for university-level courses for non-engineering majors such as architecture. The book uses U.S. Customary and SI units equally in worked examples and practice problems. Sections requiring calculus are included for professors who teach in accredited programs in the technologies; these sections are marked with asterisks and may be omitted, depending on the level of coverage required, without a loss of continuity in the text. Chapters 1 through 8 cover the topic of statics and include a review of unit conversions, trigonometry, and simultaneous equations. Chapters 9 through 18 are devoted to the study of strength of materials. The new edition also includes: "Application sidebars" scattered throughout the text containing photos and line art that integrate theory with practice in selected areas of construction and manufacturing A new section on residential design using tabulated values taken from the principal model building codes More than 200 worked examples, and over 950 practice problems in varying degrees of difficulty A new table of properties for MEL and MSR machine-graded lumber, with examples demonstrating their use Essential Mechanics - Statics and Strength of Materials with MATLAB and Octave combines two core engineering science courses - "Statics" and "Strength of Materials" - in mechanical, civil, and aerospace engineering. It weaves together various essential topics from Statics and Strength of Materials to allow discussing structural design from the very beginning. The traditional content of these courses are reordered to make it convenient to cover rigid body equilibrium and extend it to deformable body mechanics. The e-book covers the most useful topics from both courses with computational support through MATLAB/Octave. The traditional approach for engineering content is emphasized and is rigorously supported through graphics and analysis. Prior knowledge of MATLAB is not necessary. Instructions for its use in context is provided and explained. It takes advantage of the numerical, symbolic, and graphical capability of MATLAB for effective problem solving. This computational ability provides a natural procedure for What if? exploration that is important for design. The book also emphasizes graphics to understand, learn, and explore design. The idea for this book, the organization, and the flow of content is original and new. The integration of computation, and the marriage of analytical and computational skills is a new valuable experience provided by this e-book. Most importantly the book is very interactive with respect to the code as it appears along with the analysis. Good, No Highlights, No Markup, all pages are intact, Slight Shelfwear, may have the corners slightly dented, may have slight color changes/slightly damaged spine. Unique in perspective, approach, and coverage, this book is written specifically to introduce architectural, construction and civil engineering technicians to elementary engineering concepts, design principles, and practices. Using a practical, non-classical, non-calculus approach, it combines -- in one volume -- full coverage of the statics, strengths of materials, and building structure analysis/design concepts that technicians must master for the demands of today's changing workplace. Provides nearly 180 examples and over 200 supporting illustrations and photographs, including photos of buildings under construction and in sequence. Contains a very comprehensive set of tables of structural products and their properties. For anyone studying or interested in architectural technology, architectural engineering technology, structural technology, structural engineering technology, civil engineering technology, construction engineering technology, or construction management. The new edition of this easy-to-understand text, designed for a non-calculus course in statics and strength of materials, requires only a working knowledge of algebra, geometry, and trigonometry. In addition to expanded coverage and better organization of information, it addresses new topics such as accuracy and precision, solution of simultaneous equations, rolling resistance, mechanical properties of materials, composite beams, reinforced concrete beams, plastic analysis of beams, design of shear connectors, and more. APPLIED STATICS AND STRENGTH OF MATERIALS, 2nd Edition provides engineering and construction technology readers with a strategy for successful learning of basic structural behavior and design. The book is written at a fundamental level while providing robust detail on problem-solving methods on a variety of recognizable structures, systems, and machines. Topics covered include easy-to-understand discussion on equilibrium, trusses, frames, centroids, moment of inertia, direct stress, combined stress, beam mechanics,

and much more. The book also includes extensive coverage on the design of beams, columns, and connections which include the latest design specifications using steel, concrete, and wood. More than 175 fully worked examples and 500 exercise problems offer thorough and comprehensive reinforcement of the material using recognizable structural and mechanical elements which connect the readers to the real-world. Very Good, No Highlights or Markup, all pages are intact. For courses in Statics, Strength of Materials, and Structural Principles in Architecture, Construction, and Engineering Technology. Statics and Strength of Materials for Architecture and Building Construction, Fourth Edition, offers students an accessible, visually oriented introduction to structural theory that doesn't rely on calculus. Instead, illustrations and examples of building frameworks and components enable students to better visualize the connection between theoretical concepts and the experiential nature of real buildings and materials. This new edition includes fully worked examples in each chapter, a companion website with extra practice problems, and expanded treatment of load tracing. A parallel approach to understanding structure. STATICS AND STRENGTH OF MATERIALS, 7/e is fully updated text and presents logically organized, clear coverage of all major topics in statics and strength of materials, including the latest developments in materials technology and manufacturing/construction techniques. A basic knowledge of algebra and trigonometry are the only mathematical skills it requires, although several optional sections using calculus are provided for instructors teaching in ABET accredited programs. A new introductory section on catastrophic failures shows students why these topics are so important, and 25 full-page, real-life application sidebars demonstrate the relevance of theory. To simplify understanding and promote student interest, the book is profusely illustrated. "The seventh edition of Applied Statics and Strength of Materials presents an elementary, analytical, and practical approach to the principles and physical concepts of statics and strength of materials. It is written at an appropriate mathematics level for engineering technology students, using algebra, trigonometry, and analytic geometry. An in-depth knowledge of calculus is not required for understanding the text or solving the problems"-- Textbook for Machine Members-Strength 10606135. The statics and mechanics of structures form a core aspect of civil engineering. This book provides an introduction to the subject, starting from classic hand-calculation types of analysis and gradually advancing to a systematic form suitable for computer implementation. It starts with statically determinate structures in the form of trusses, beams and frames. Instability is discussed in the form of the column problem - both the ideal column and the imperfect column used in actual column design. The theory of statically indeterminate structures is then introduced, and the force and deformation methods are explained and illustrated. An important aspect of the book's approach is the systematic development of the theory in a form suitable for computer implementation using finite elements. This development is supported by two small computer programs, MiniTruss and MiniFrame, which permit static analysis of trusses and frames, as well as linearized stability analysis. The book's final section presents related strength of materials subjects in greater detail; these include stress and strain, failure criteria, and normal and shear stresses in general beam flexure and in beam torsion. The book is well-suited as a textbook for a two-semester introductory course on structures.

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