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From theory and fundamentals to the latest advances in computational and experimental modal analysis, this is the definitive, updated reference on structural dynamics. This edition updates Professor Craig's classic introduction to structural dynamics, which has been an invaluable resource for practicing engineers and a textbook for undergraduate and graduate courses in vibrations and/or structural dynamics. Along with comprehensive coverage of structural dynamics fundamentals, finite-element-based computational methods, and dynamic testing methods, this Second Edition includes new and expanded coverage of computational methods, as well as introductions to more advanced topics, including experimental modal analysis and "active structures." With a systematic approach, it presents solution techniques that apply to various engineering disciplines. It discusses single degree-of-freedom (SDOF) systems, multiple degrees-of-freedom (MDOF) systems, and continuous systems in depth; and includes numeric evaluation of modes and frequency of MDOF systems; direct integration methods for dynamic response of SDOF systems and MDOF systems; and component mode synthesis. Numerous illustrative examples help engineers apply the techniques and methods to challenges they face in the real world. MATLAB(r) is extensively used throughout the book, and many of the .m-files are made available on the book's Web site. Fundamentals of Structural Dynamics, Second Edition is an indispensable reference and "refresher course" for engineering professionals; and a textbook for seniors or graduate students in mechanical engineering, civil engineering, engineering mechanics, or aerospace engineering.

Fundamentals of Structural Analysis (originally published by Macmillan and newly updated) introduces engineering and architectural students to the basic techniques for analyzing most common structural elements, including beams, trusses, frames, cables, and arches. The book covers the classical methods of analysis for determinate and indeterminate structures, and provides an introduction to matrix formulation, the basis of computer analysis. Extensive and fully worked out examples are used to illustrate all principles and techniques, and an increased number of homework problems gives the student in-depth understanding of structural behavior. The discussion on approximate analysis will enable students to verify the accuracy of a computer analysis, as well as to estimate the preliminary design forces required to size individual components of multimember structures during the early design phase, when the tentative configuration and proportions of members are established. Illustrations in the text are drawn in detail with a high level of realism so that students become familiar with the appearance of the actual structure and the simplified model of the structure that engineers analyze to determine the forces and displacements of the structure. A new chapter on loads, presented in a straightforward way, helps to clarify the complexity of the latest national building code specifications, providing a better understanding of live load, wind load, and earthquake effects. Prof. Leet's other text for McGraw-Hill, Reinforced Concrete Design, is available in both an international and a Chinese edition.

A solid introduction to basic continuum mechanics, emphasizing variational formulations and numeric computation. The book offers a complete discussion of numerical method techniques used in the study of structural mechanics.

Fundamentals of Structural Analysis third edition introduces engineering and architectural students to the basic techniques for analyzing the most common structural elements, including beams, trusses, frames, cables, and arches. Leet et al cover the classical methods of analysis for determinate and indeterminate structures, and provide an introduction to the matrix formulation on which computer analysis is based. Third edition users will find that the text's layout has improved to better illustrate example problems, superior coverage of loads is give in Chapter 2 and over 25% of the homework problems have been revised or are new to this edition.

An understandable introduction to the theory of structural stability, useful for a wide variety of engineering disciplines, including mechanical, civil and aerospace.

Readers learn to master the basic principles of structural analysis using the classical approach found in Kassimali's distinctive STRUCTURAL ANALYSIS, 6th Edition. This edition presents structural analysis concepts in a logical order, progressing from an introduction of each topic to an analysis of statically determinate beams, trusses and rigid frames, and then to the analysis of statically indeterminate structures. Practical, solved problems integrated throughout each presentation help illustrate and clarify the book's fundamental concepts, while the latest examples and timely content reflect today's most current professional standards. Kassimali's STRUCTURAL ANALYSIS, 6th Edition provides the foundation needed for advanced study and professional success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

The use of COSMOS for the analysis and solution of structural dynamics problems is introduced in this new edition. The COSMOS program was selected from among the various professional programs available because it has the capability of solving complex problems in structures, as well as in other engineering fields such as Heat Transfer, Fluid Flow, and Electromagnetic Phenomena. COSMOS includes routines for Structural Analysis, Static, or Dynamics with linear or nonlinear behavior (material nonlinearity or large displacements), and can be used most efficiently in the microcomputer. The larger version of COSMOS has the capacity for the analysis of structures modeled up to 64,000 nodes. This fourth edition uses an introductory version that has a capability limited to 50 nodes or 50 elements. This version is included in the supplement, STRUCTURAL DYNAMICS USING COSMOS 1. The sets of educational programs in Structural Dynamics and Earthquake Engineering that accompanied the third edition have now been extended and updated. These sets include programs to determine the response in the time or frequency domain using the FFT (Fast Fourier Transform) of structures modeled as a single oscillator. Also included is a program to determine the response of an inelastic system with elastoplastic behavior and a program for the development of seismic response spectral charts. A set of seven computer programs is included for modeling structures as two-dimensional and three dimensional frames and trusses.

Introduction to Aircraft Structural Analysis is an essential resource for learning aircraft structural analysis. Based on the author's best-selling book Aircraft Structures for Engineering Students, this brief text introduces the reader to the basics of structural analysis as applied to aircraft structures. Coverage of elasticity, energy methods and virtual work sets the stage for discussions of airworthiness/airframe loads and stress analysis of aircraft components. Numerous worked examples, illustrations, and sample problems show how to apply the concepts to realistic situations. The book covers the core concepts in about 200 fewer pages by removing some optional topics like structural vibrations and aero elasticity. It consists of 23 chapters covering a variety of topics from basic elasticity to torsion of solid sections; energy methods; matrix methods; bending of thin plates; structural components of aircraft; airworthiness; airframe loads; bending of open, closed, and thin walled beams; combined open and closed section beams; wing spars and box beams; and fuselage frames and wing ribs. This book will appeal to undergraduate and postgraduate students of aerospace and aeronautical engineering, as well as professional development and training courses. Based on the author's best-selling text Aircraft Structures for Engineering Students, this Intro version covers the core concepts in about 200 fewer pages by removing some optional topics like structural vibrations and aeroelasticity. Systematic step by step procedures in the worked examples. Self-contained, with complete derivations for key equations.

Structural Steel Design, Third Edition is a simple, practical, and concise guide to structural steel design using the Load and Resistance Factor Design (LRFD) and the Allowable Strength Design (ASD) methods -- that equips the reader with the necessary skills for designing real-world structures. Civil, structural, and architectural engineering students intending to pursue careers in structural design and consulting engineering, and practicing structural engineers will find the text useful because of the holistic, project-based learning approach that bridges the gap between engineering education and professional practice. The design of each building component is presented in a way such that the reader can see how each element fits into the entire building design and construction process. Structural details and practical example exercises that realistically mirror what obtains in professional design practice are presented. Features: - Includes updated content/example exercises that conform to the current codes (ASCE 7, ANSI/AISC 360-16, and IBC) - Adds coverage to ASD and examples with ASD to parallel those that are done LRFD - Follows a holistic approach to structural steel design that considers the design of individual steel framing members in the context of a complete structure.

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