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In stability analysis Timoshenko and Gere proposed formulas to account for shear stiffness by means of calculation of buckling loads of the associated Euler-Bernoulli beams.

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the basic principles rather than excessive detailed solutions, and their treatment of each subject proceed from simple examples to general concepts and rigorous formulations. All the results are derived using as simple mathematics as possible. Numerous examples are given and 700 exercise problems help in attaining a firm grasp of this central aspect of solid mechanics. The book is an unabridged republication of the 1991 edition by Oxford University Press and the 2003 edition by Dover, updated with 18 pages of end notes.

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Structural Analysis of Polymeric Composite Materials, Second Edition introduces the mechanics of composite materials and structures and combines classical lamination theory with macromechanical failure principles for prediction and optimization of composite structural performance. It addresses topics such as high-strength fibers, manufacturing techniques, commercially available compounds, and the behavior of anisotropic, orthotropic, and transversely isotropic materials and structures subjected to complex loading. Emphasizing the macromechanical (structural) level over micromechanical issues and analyses, this unique book integrates effects of environment at the outset

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This comprehensive textbook, now in its sixth edition, combines classical and matrix-based methods of

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structural analysis and develops them concurrently. New solved examples and problems have been added, giving over 140 worked examples and more than 400 problems with answers. The introductory chapter on structural analysis modelling gives a good grounding to the beginner, showing how structures can be modelled as beams, plane or space frames and trusses, plane grids or assemblages of finite element. Idealization of loads, anticipated deformations, deflected shapes and bending moment diagrams are presented. Readers are also shown how to idealize real three-dimensional structures into simplified models that can be analyzed with little or no calculation, or with more involved calculations

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using computers. Dynamic analysis, essential for structures subject to seismic ground motion, is further developed in this edition and in a code-neutral manner. The topic of structural reliability analysis is discussed in a new chapter. Translated into six languages, this textbook is of considerable international renown, and is widely recommended by many civil and structural engineering lecturers to their students because of its clear and thorough style and content.

This textbook presents the principal methods of stress analysis for the design of frame structures, beginning with a description of the basic criteria for probabilistic

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safety verification used in modern codes. The Force Method and the Displacement Method are dealt with, together with their applications to more common structural situations. A special chapter is dedicated to the second order analysis required for slender structures and for the elaboration of instability problems. In turn, a thorough set of numerical examples rounds out the text. Given its scope, the book offers an ideal learning resource for students of Civil and Building Engineering and Architecture, and a valuable reference guide for practicing structural design professionals.

This book contains the fundamentals of a discipline,

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which could be called Structural Analysis in Microelectronics and Fiber Optics. It deals with mechanical behavior of microelectronic and fiber-optic systems and is written in response to the crucial need for a textbook for a first in-depth course on mechanical problems in microelectronics and fiber optics. The emphasis of this book is on electronic and optical packaging problems, and analytical modeling. This book is apparently the first attempt to select, advance, and present those methods of classical structural mechanics which have been or can be applied in various stress-strain problems encountered in "high technology" engineering and some related areas, such as materials science and solid-state



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physics. The following major objectives are pursued in Structural Analysis in Microelectronic and Fiber-Optic Systems: Identify structural elements typical for microelectronic and fiber-optic systems and devices, and introduce the student to the basic concepts of the mechanical behavior of microelectronic and fiber-optic structures, subjected to thermally induced or external loading. Select, advance, and present methods for analyzing stresses and deflections developed in microelectronic and fiber-optic structures; demonstrate the effectiveness of the methods and approaches of the classical structural analysis in the diverse mechanical problems of microelectronics and fiber optics; and give students of

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engineering, as well as practicing engineers and designers, a thorough understanding of the main principles involved in the analytical evaluation of the mechanical behavior of microelectronic and fiber-optic systems.

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