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essential in determining the  
most attractive markets.  
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elastic components. But it  
really does n ' t. (you can'  
t " create " elastic  
components just by  
describing a material in a  
different axis system, the  
inherent properties of the  
material stay the same).

Figure 4-3 Example:

Unidirectional composite  
(transversely isotropic) No  
shear / extension coupling  
Shears with regard to  
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in most chapters, along with some rearrangement of topics to improve the clarity of the overall presentation.

The book presents new material on the theory and analysis of shells, featuring an additional chapter devoted to the topic. The author also includes new sections that address Castigliano's theorems, axisymmetric buckling of circular plates, the relationships between the solutions of classical and shear deformation theories, and the nonlinear finite element analysis of plates. The book provides many illustrations of theories, formulations, and

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solution methods, resulting in an easy-to-understand presentation of the topics. Like the previous edition, this book remains a suitable textbook for a course on plates and shells in aerospace, civil, and mechanical engineering curricula and continues to serve as a reference for industrial and academic structural engineers and scientists.

This text presents a complete treatment of the theory and analysis of elastic plates. It provides detailed coverage of classic and shear deformation plate theories and their solutions

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by analytical as well as numerical methods for bending, buckling and natural vibrations. Analytical solutions are based on the Navier and Levy solution method, and numerical solutions are based on the Rayleigh-Ritz methods and finite element method. The author address a range of topics, including basic equations of elasticity, virtual work and energy principles, cylindrical bending of plates, rectangular plates and an introduction to the finite element method with applications to plates.

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This book gives a unified presentation of the field of stability. Buckling and post-buckling states are studied on the basis of total potential energy of structural systems. Emphasis is placed throughout the text on post-buckling analysis and behaviour. The sensitivity of buckling and post-buckling states to changes in design parameters is also discussed as well as changes due to imperfections and damage.

\* Focuses only on elastic  
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analysis methods. \* Covers an emerging field that is generating a lot of interest.

Theory of Elastic Thin Shells discusses the mathematical foundations of shell theory and the approximate methods of solution. The present volume was originally published in Russian in 1953, and remains the only text which formulates as completely as possible the different sets of basic equations and various approximate methods of shell analysis emphasizing asymptotic integration. The book is organized into five parts.

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Part I presents the general formulation and equations of the theory of shells, which are based on the well-known hypothesis of the preservation of the normal element. Part II is devoted to the membrane theory--the most widely used approximate method of analysis of shells that was formulated at approximately the same time as the more general bending theory. In Part III methods of analysis of circular cylindrical shells with the aid of trigonometric series are considered. Part IV is essentially mathematical in character and its purpose is to justify the approximate methods of shell analysis.

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In Part V approximate methods of analysis of shells are formulated.

Theory of Stability of Continuous Elastic Structures presents an applied mathematical treatment of the stability of civil engineering structures. The book's modern and rigorous approach makes it especially useful as a text in advanced engineering courses and an invaluable reference for engineers.

Soft biological tissues often undergo large (nearly) elastic deformations that can be analyzed using the

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nonlinear theory of elasticity. Because of the varied approaches to nonlinear elasticity in the literature, some aspects of the subject may be difficult to appreciate. This book attempts to clarify and unify those treatments, illustrating the advantages and disadvantages of each through various examples in the mechanics of soft tissues. Applications include muscle, arteries, the heart, and embryonic tissues.

Linear Elastic Theory of Thin Shells presents membrane and bending theories for open and closed

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cylindrical shells and shells of arbitrary shape. This book aims to develop the analysis through membrane theory to bending theory for shells and to limit the type of mathematics used. Organized into eight chapters, this book begins with an overview of the solid material enclosed between two closely spaced doubly curved surfaces. This text then examines the five stress resultants for closed cylindrical shell. Other chapters consider the theoretical stresses that are closely related to the actual stresses determined experimentally in practice.

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This book discusses as well the numerical analysis of more complicated shell structures. The final chapter deals with the correlation between experimental and theoretical stresses in shells. This book is intended to be suitable for final year engineering and post-graduate students. Design and consulting engineers will also find this book extremely useful.

This book treats stability problems of equilibrium states of elastic rods. Euler energy and dynamical methods of stability analysis are introduced and

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stability criteria for each method is developed.

Stability analysis is accompanied by a number of classical conservative and non-conservative, two- and three-dimensional problems. Some problems are treated by all three methods. Many generalized versions of known problems are presented (heavy vertical rod, rotating rod, Greenhill's problem, Beck's column, Pflüger's rod, strongest column, etc.). The generalizations consist in using either a generalized form of constitutive equations or a more general form of loading, or both. Special attention is paid to

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the influence of shear stresses and axis compressibility on the value of the critical load.

Variational methods are applied to obtain estimates of the critical load and maximal deflection in the post-critical state, in a selected number of examples.

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