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6.6. Free vibrations of a rectangular plate freely supported at its edge6. 7. Buckling of a rectangular plate simply supported at its edge; Chapter 7. Thermo-elastic behaviour of composites; 7.1. Introduction; 7.2. Constitutive relation for an orthotropic material; 7.3. Constitutive relation when the normal transverse stress is zero; 7.4. Global cohesion forces; 7.5. Global composite constitutive relation; 7.6. Decoupling; 7.7. Balanced symmetrical composite loaded in the mean plane; Chapter 8. Symmetrical orthotropic Reissner-Mindlin plates; 8.1. Introduction
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Sommario/riassunto

This book provides the basis for calculations of composite structures, using continuum mechanics to facilitate the treatment of more elaborate theories. A composite structure combines traditional materials (such as concrete) with new materials (such as high performance fibres) to explore and develop new structures.The author deals with individual layers in laminate composites, discussing the basic laws that govern mixtures.·Recommended for both student and professional use ·A systematic, compact presentation in a single volume·Covers the governing equations of composite