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Autore	Vasiliev Valery V
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REINFORCED ORTHOTROPIC LAYER; 4.5 ANGLE-PLY ORTHOTROPIC LAYER
4.6 LAYER MADE BY ANGLE-PLY CIRCUMFERENTIAL WINDING
4.7 FABRIC LAYERS; 4.8 LATTICE LAYER; 4.9 SPATIALLY REINFORCED LAYERS AND BULK MATERIALS; 4.10 References; Chapter 5 - Mechanics of laminates;
5.1 STIFFNESS COEFFICIENTS OF A NONHOMOGENEOUS ANISOTROPIC LAYER; 5.2 STIFFNESS COEFFICIENTS OF A HOMOGENEOUS LAYER; 5.3 STIFFNESS COEFFICIENTS OF A LAMINATE; 5.4 SYMMETRIC LAMINATES; 5.5 ENGINEERING STIFFNESS COEFFICIENTS OF ORTHOTROPIC LAMINATES; 5.6 QUASI-HOMOGENEOUS LAMINATES; 5.7 QUASI-ISOTROPIC LAMINATES IN THE PLANE STRESS STATE; 5.8 ANTISYMMETRIC LAMINATES; 5.9 SANDWICH STRUCTURES
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Chapter 8 - Laminated composite beams and columns
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9.5 BUCKLING OF ORTHOTROPIC SYMMETRIC PLATES

Sommario/riassunto

This book analyzes contemporary theoretical models at the micro and macro levels of material structure. It covers practical methods and approaches, experimental results, and optimization of composite material properties and structural component performance, and includes new coverage of beams, plates and shells.
