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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 5.10 COORDINATE OF THE REFERENCE PLANE 5.11 STRESSES IN LAMINATES; 5.12 References; Chapter 6 - Failure criteria and strength of laminates; 6.1 FAILURE CRITERIA FOR AN ELEMENTARY COMPOSITE LAYER OR PLY; 6.2 PRACTICAL RECOMMENDATIONS; 6.3 EXAMPLES; 6.4 ALLOWABLE STRESSES FOR LAMINATES CONSISTING OF UNIDIRECTIONAL PLIES; 6.5 PROGRESSIVE FAILURE: MODELING AND ANALYSIS; 6.6 References; Chapter 7 - Environmental, special loading, and manufacturing effects; 7.1 TEMPERATURE EFFECTS; 7.2 HYGROTHERMAL EFFECTS AND AGING; 7.3 TIME-DEPENDENT LOADING EFFECTS; 7.4 MANUFACTURING EFFECTS; 7.5 References Chapter 8 - Laminated composite beams and columns 8.1 BASIC EQUATIONS; 8.2 STIFFNESS COEFFICIENTS; 8.3 BENDING OF LAMINATED BEAMS; 8.4 NONLINEAR BENDING; 8.5 BUCKLING OF COMPOSITE COLUMNS; 8.6 FREE VIBRATIONS OF COMPOSITE BEAMS; 8.7 REFINED THEORIES OF BEAMS AND PLATES; 8.8 References; Chapter 9 - Laminated composite plates; 9.1 EQUATIONS OF THE THEORY OF ANISOTROPIC LAMINATED PLATES; 9.2 EQUATIONS FOR THE ORTHOTROPIC PLATES WITH SYMMETRIC STRUCTURE; 9.3 ANALYSIS OF THE EQUATIONS OF PLATE THEORY FOR TRANSVERSELY ISOTROPIC PLATES; 9.4 BENDING OF ORTHOTROPIC SYMMETRIC PLATES 9.5 BUCKLING OF ORTHOTROPIC SYMMETRIC PLATES
