



Mechanics of Composite Structures

By László P. Kollár, George S. Springer



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A greater use of composite materials in many areas of engineering has led to a greater demand for engineers versed in the design of structures made from such materials. This text offers students and engineers tools for designing practical composite structures. Among the topics of interest to the designer are stress-strain relationships for a wide range of anisotropic materials; bending, buckling, and vibration of plates; bending, torsion, buckling, and vibration of solid as well as thin-walled beams; shells; hygrothermal stresses and strains; finite element formulation; and failure criteria. More than 300 illustrations, 50 fully worked problems, and material properties data sets are included.



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