



Mechanics of Aircraft Structures

C. T. Sun

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Designed to help students get a solid background in structural mechanics and extensively updated to help professionals get up to speed on recent advances

This Second Edition of the bestselling textbook Mechanics of Aircraft Structures combines fundamentals, an overview of new materials, and rigorous analysis tools into an excellent one-semester introductory course in structural mechanics and aerospace engineering. It's also extremely useful to practicing aerospace or mechanical engineers who want to keep abreast of new materials and recent advances. Updated and expanded, this hands-on reference covers:

- * Introduction to elasticity of anisotropic solids, including mechanics of composite materials and laminated structures
- * Stress analysis of thin-walled structures with end constraints
- * Elastic buckling of beam-column, plates, and thin-walled bars
- * Fracture mechanics as a tool in studying damage tolerance and durability

Designed and structured to provide a solid foundation in structural mechanics, Mechanics of Aircraft Structures, Second Edition includes more examples, more details on some of the derivations, and more sample problems to ensure that students develop a thorough understanding of the principles.

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