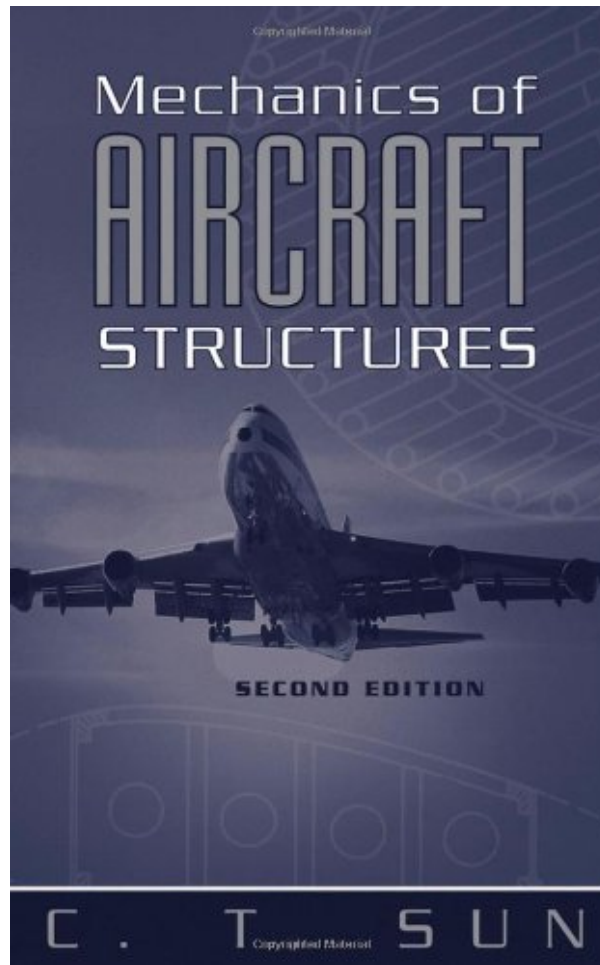


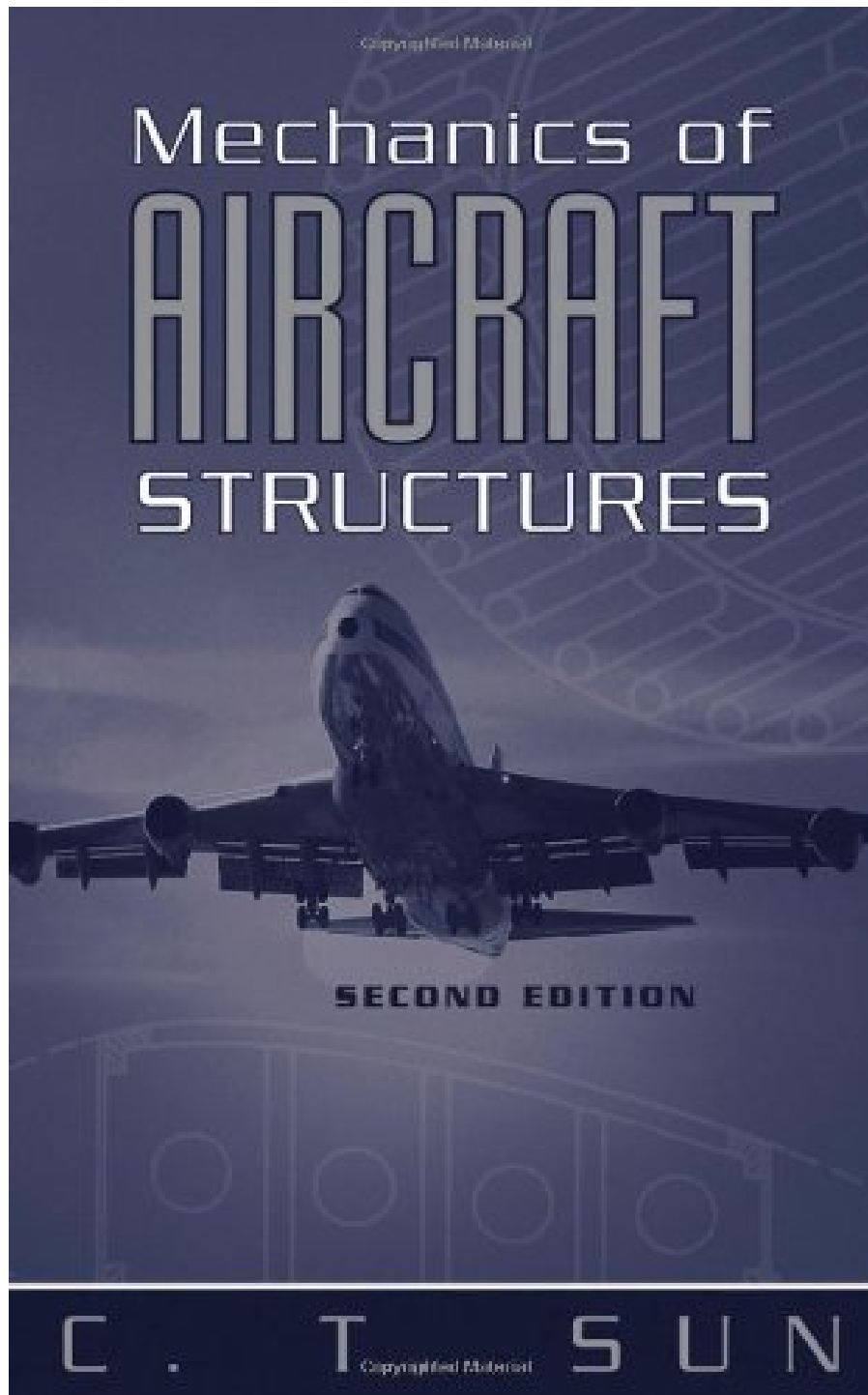
# MECHANICS OF AIRCRAFT STRUCTURES

## BY C. T. SUN



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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.

About the Author

C. T. SUN, PHD, is the Neil A. Armstrong Distinguished Professor in the School of Aeronautics and Astronautics at Purdue University in West Lafayette, Indiana, and the recipient of the 2004 Purdue University Research Award. Dr. Sun teaches composites, elasticity, fracture mechanics, and aircraft structures. He is a Fellow of both the American Institute of Aeronautics and Astronautics (AIAA), the American Society of Mechanical Engineers (ASME), and the American Society for Composites (ASC).

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I won't go into much detail about the frustrating and inadequate nature of this book, as many others have already done so. Basically, all you need to know about this book is that it is a waste of time. The author rarely explains anything with sufficient detail and seems to expect you to already know an incredible amount about aircraft structures. My TA even told us that we had better come to class every day, because the textbook is pretty much worthless.

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make it much easier to understand.

3) The chapter on "composites" is an absolute joke. It is a token explanation of very basic composite theory and having taken an entire course on composites, I can say it is basically useless for any practical purpose.

4) The fact that this book only covers 2-D shear flow is again, a testament to the usefulness (or should I say uselessness) of this book and is well suited to people who like solving math problems but will never be able to actually apply knowledge to the real world.

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