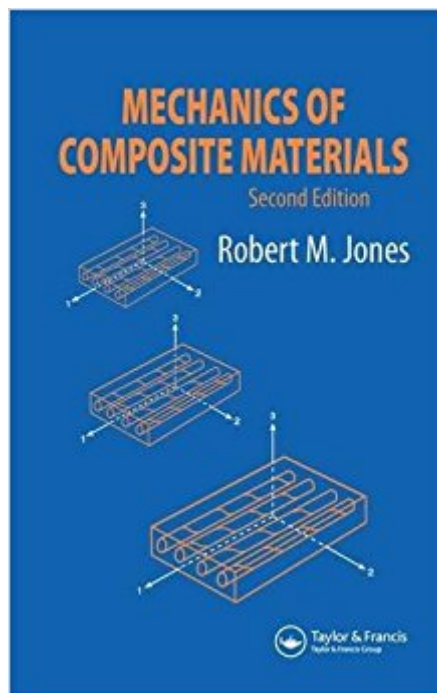




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Mechanics Of Composite Materials (Materials Science & Engineering Series)



Synopsis

This book balances introduction to the basic concepts of the mechanical behavior of composite materials and laminated composite structures. It covers topics from micromechanics and macromechanics to lamination theory and plate bending, buckling, and vibration, clarifying the physical significance of composite materials. In addition to the materials covered in the first edition, this book includes more theory-experiment comparisons and updated information on the design of composite materials.

Book Information

Series: Materials Science & Engineering Series

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Average Customer Review: 3.9 out of 5 stars 14 customer reviews

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Customer Reviews

more practical application would have been appreciated. more information on trends in grp for next say 10 years

Arrived as advertised and on time

Used this book for one of my Composites class and am glad I'm keeping it. Jones is very knowledgeable and I enjoyed the concepts within the book. It's a must if you want to learn more about composite laminates.

This is my go to composites book. used it in college and still manages to be a resource for my job. I

wouldn't say it's the only book you need, but you want it on your shelf.

I'm a final-semester senior at the University of Kentucky in Mechanical Engineering and I purchased this book as required reading for my composites class. Here's the thing: the book doesn't really say that much of anything. It spends all of its time stating equations for particular types of composites without specifying why it's doing it or how it got from equation to equation. As a matter of fact, all the chapter-end review questions seem to be are "hey, bet you can't figure out how we got from equation 4.56 to equation 4.57." It makes for somewhat easier homework because it's simple algebra and trig most of the time, but what am I learning, exactly? I usually try to justify books like this as saying, well, at least maybe I'll use it as a reference book in the future...but this book's just horrible. I would recommend you not buy this unless it's required of you for any particular class. Hope this helps.

This is not the easiest textbook I've ever used, but with a class, I was able to use it as a reasonable reference book. I've heard that this is actually one of the better books, which makes me wonder about the other books...

Excellent book

Mechanics of Composites by Jones is excellent as a university text and also as a resource for engineering professionals. It covers micro- and macro-mechanics of the lamina, stiffness and compliance matrices, classical lamination theory, special cases of stiffnesses for layups, strength of lamina and constituents, and failure theories. It also introduces the reader to interlaminar stresses, vibration and buckling, fracture mechanics, and design. It is a no-nonsense, straight to the point text, and is therefore the primary text I have used to teach Composites to undergraduates for the last few years. It does have a few problems in the back of the chapters, but these seem more effective for measuring intellectual retention rather practical ability to perform analysis. The text does a good job of introducing the advanced topics such as vibration, buckling, and interlaminar stresses, but it leaves the reader without a clear procedure for analysis in these areas. Overall, I highly recommend it as a solid foundational text for composite analysis.

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