



# Introduction to Composite Materials Design, Second Edition

By *Ever J. Barbero*

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**Introduction to Composite Materials Design, Second Edition** By Ever J. Barbero

Presenting a wealth of completely revised examples and new information, **Introduction to Composite Materials Design, Second Edition** greatly improves on the bestselling first edition. It incorporates state-of-the-art advances in knowledge and design methods that have taken place over the last 10 years, yet maintains the distinguishing features and vital content of the original.

## **New material in this second edition:**

Addresses external strengthening of reinforced-concrete beams, columns, and structural members subjected to both axial and bending loads The author distributes 78 fully developed examples throughout the book to illustrate the application of presented analysis techniques and design methodology, making this textbook ideally suited for self-study. Requiring no more than senior undergraduate-level understanding of math and mechanics, it remains an invaluable tool for students in the engineering disciplines, as well as for self-studying, practicing engineers.

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Editorial ReviewFrom the Author

Design with composite materials is often conducted in a two-step process: "preliminary design" and "detailed analysis". The former is covered by "Introduction to Composite Materials Design-2nd edition" and the free online software cadec-online.com is helpful for that as well. In large aerospace companies, once preliminary design is done, the project is handed over to the "detailed analysis" team, but most often than not the whole process is done by the same person or same team. Detailed analysis is covered by my twin boons: "Finite Element Analysis of Composites Materials" Using Abaqus and Using ANSYS, both 2nd Edition. These books cover all "mechanics" aspects of the design including deformation and strength. Other topics might be relevant depending on the application are covered in "Multifunctional Composites". About the Author **Ever J. Barbero, BSME, BSEE, Ph.D.**, is a Fellow of ASME and SAMPE, and professor of Mechanical and Aerospace Engineering at West Virginia University. He is recognized internationally for his work on material models for composite materials. He is the author of a related textbook, *Finite Element Analysis of Composite Materials*, two patents, and more than 100 peer-reviewed publications. Users Review

### **From reader reviews:**

Lee Parkin:In this 21st centuries, people become competitive in each way. By being competitive right now, people have do something to make them survives, being in the middle of the crowded place and notice through surrounding. One thing that sometimes many people have underestimated it for a while is reading. Yeah, by reading a publication your ability to survive improve then having chance to stay than other is high. In your case who want to start reading the book, we give you this kind of Introduction to Composite Materials Design, Second Edition book as starter and daily reading book. Why, because this book is more than just a book.

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