



# **Finite Element Analysis of Composite Materials Using ANSYS®, Second Edition**

*Ever J. Barbero*

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# Finite Element Analysis of Composite Materials Using ANSYS®, Second Edition

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Designing structures using composite materials poses unique challenges, especially due to the need for concurrent design of both material and structure. Students are faced with two options: textbooks that teach the theory of advanced mechanics of composites, but lack computational examples of advanced analysis, and books on finite element analysis that may or may not demonstrate very limited applications to composites. But there is a third option that makes the other two obsolete: Ever J. Barbero's **Finite Element Analysis of Composite Materials Using ANSYS®, Second Edition**.

***The Only Finite Element Analysis Book on the Market Using ANSYS to Analyze Composite Materials.***

By layering detailed theoretical and conceptual discussions with fully developed examples, this text supplies the missing link between theory and implementation. In-depth discussions cover all of the major aspects of advanced analysis, including three-dimensional effects, viscoelasticity, edge effects, elastic instability, damage, and delamination. This second edition of the bestseller has been completely revised to incorporate advances in the state of the art in such areas as modeling of damage in composites. In addition, all 50+ worked examples have been updated to reflect the newest version of ANSYS. Including some use of MATLAB®, these examples demonstrate how to use the concepts to formulate and execute finite element analyses and how to interpret the results in engineering terms. Additionally, the source code for each example is available to students for download online via a companion website featuring a special area reserved for instructors. Plus a solutions manual is available for qualifying course adoptions.

Cementing applied computational and analytical experience to a firm foundation of basic concepts and theory, **Finite Element Analysis of Composite Materials Using ANSYS, Second Edition** offers a modern, practical, and versatile classroom tool for today's engineering classroom.

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