

Principles of Composite Material Mechanics, Third Edition (Mechanical Engineering)

By Ronald F. Gibson

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Principles of Composite Material Mechanics, Third Edition presents a unique blend of classical and contemporary mechanics of composites technologies. While continuing to cover classical methods, this edition also includes frequent references to current state-of-the-art composites technology and research findings.

New to the Third Edition

- Many new worked-out example problems, homework problems, figures, and references
- An appendix on matrix concepts and operations
- Coverage of particle composites, nanocomposites, nanoenhancement of conventional fiber composites, and hybrid multiscale composites
- Expanded coverage of finite element modeling and test methods

Easily accessible to students, this popular bestseller incorporates the most worked-out example problems and exercises of any available textbook on mechanics of composite materials. It offers a rich, comprehensive, and up-to-date foundation for students to begin their work in composite materials science and engineering. A solutions manual and PowerPoint presentations are available for qualifying instructors.

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Editorial Review

Review

A strong feature of the book is the use of a large number of worked-out examples, which are extremely useful in reinforcing the principles presented in the book and expanding on the concepts. … the Third Edition has been expanded to include a number of new topics, as well as new worked-out examples, homework problems, figures, references and an appendix on matrix concepts and operations. … Extensive references to classical and historical publications as well as current journal articles are included in each chapter and provide additional information on topics discussed. Overall, this book is essential reading and highly recommended to all engineering students, researchers and practicing engineers working with composite materials.
?Dr. Maria Kashtalyan, *The Aeronautical Journal*, May 2012

Mechanics of composite materials is important to understand the particular behavior of composites, such as anisotropy and inhomogeneity, which are different from conventional materials. Professor Ron Gibson provides a comprehensive textbook to cover the basic concept of anisotropy and inhomogeneity of composites as well as the state-of-art issues such as dynamic behavior, fracture and testing. Many worked-out examples and homework problems are most useful for readers to understand the basic concepts to be used in practical applications of composites. Such knowledge is essential for advanced composite materials to be further applied to lightweight structures successfully.
?Nobuo Takeda, University of Tokyo, Japan

About the Author

Ronald F. Gibson is a distinguished research professor of mechanical engineering at the University of Nevada-Reno. He is an elected fellow of the American Society of Mechanical Engineers, an elected fellow and past president of the American Society for Composites, and a member of the American Society for Engineering Education, the American Institute for Aeronautics and Astronautics, the Society for Experimental Mechanics, and the Society for Advancement of Material and Process Engineering. He earned a Ph.D. in mechanics from the University of Minnesota. His current research interests include mechanical characterization of composite materials and structures, noise and vibration control with composites, design and manufacturing of composite structures, characterization of energy-absorbing materials, multifunctional composites, and nanocomposites.

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