

PRINCIPLES OF COMPOSITE MATERIAL MECHANICS

"The combination of both static and dynamic analysis of composites makes this text worth selecting for a senior- or graduate-level mechanical engineering course."

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"... a very good introduction that takes its basis in the newest technologies and materials. Moreover, the text provides examples on the use of composite materials in modern products ranging from the civil engineering industry to space crafts."

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Principles of Composite Material Mechanics covers a unique blend of classical and contemporary mechanics of composites technologies. It presents analytical approaches ranging from the elementary mechanics of materials to more advanced elasticity and finite element numerical methods, discusses novel materials such as nanocomposites and hybrid multiscale composites, and examines the hygrothermal, viscoelastic, and dynamic behavior of composites.

This fully revised and expanded Fourth Edition of the popular bestseller reflects the current state of the art, fresh insight gleaned from the author's ongoing composites research, and pedagogical improvements based on feedback from students, colleagues, and the author's own course notes.

New to the Fourth Edition

- New worked-out examples and homework problems are added in most chapters, bringing the grand total to 95 worked-out examples (a 15% increase) and 212 homework problems (a 12% increase)
- Worked-out example problems and homework problems are now integrated within the chapters, making it clear to which section each example problem and homework problem relates
- Answers to selected homework problems are featured in the back of the book

Principles of Composite Material Mechanics, Fourth Edition provides a solid foundation upon which students can begin work in composite materials science and engineering. A complete solutions manual is included with qualifying course adoption.



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K255-43

ISBN: 978-1-4957-2069-9



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Daniel F McAuley



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