

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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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.

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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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Ronald F. Gibson



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