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About the Book MECHANICS OF COMPOSITE MATERIALS

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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.

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An assessment is given of the means of predicting the mechanical properties of composite materials in terms of the microstructure properties. Fiber reinforced composites are considered as well as other types of heterogeneous combinations of materials. Various geometric models of microstructure characteristics are discussed.

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