



Mechanics of Composite Materials (Dover Civil and Mechanical Engineering)

Richard M. Christensen

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A comprehensive account of the basic theory of the mechanical behavior of heterogeneous media, this volume assembles, interprets, and interrelates contributions to the field of composite materials from theoretical research, laboratory developments, and product applications.

The text focuses on the continuum mechanics aspects of behavior; specifically, it invokes idealized geometric models of the heterogeneous system to obtain theoretical predictions of macroscopic properties in terms of the properties of individual constituent materials. The wide range of subjects encompasses macroscopic stiffness properties, failure characterization, and wave propagation. Much of the book presumes a familiarity with the theory of linear elasticity; but it also takes into consideration behavior characterized by viscoelasticity and inviscid plasticity theories and problems involving nonlinear kinematics. Because of the close relationship between mechanical and thermal effects, the text also examines macroscopic, thermal properties of heterogeneous media.

Although the primary emphasis centers on the development of theory, this volume also pays critical attention to the practical assessment of results and applications. Comparisons between different approaches and with reliable experimental data appear at main junctures. Suitable as a graduate-level text, *Mechanics of Composite Materials* is also a valuable reference for professionals.

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