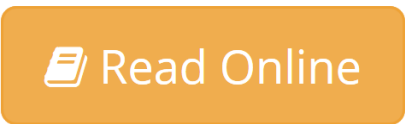


Composite Materials: Design and Applications, Second Edition

By Daniel Gay, Suong V. Hoa




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Responding to the need for a single reference source on the design and applications of composites, **Composite Materials: Design and Applications, Second Edition** provides an authoritative examination of the composite materials used in current industrial applications and delivers much needed practical guidance to those working in this rapidly developing area of engineering.

This updated second edition extends its coverage to include original methods of analysis for various types of materials such as composite beams. The authors now also include an entire chapter devoted to thick laminated composites. The first section describes the properties, fabrication process, and applications of composite materials. The second section describes the mechanics of composites, such as the elastic anisotropic properties and mechanical properties of thin laminates. The third section discusses orthotropic coefficients that may be used for design, including the Hill-Tsai failure criterion. The final section provides 40 case studies with complete solutions that illustrate the types of challenges encountered in modern engineering practice.

This timely resource delivers unique analysis and design solutions needed to conceptualize and design components made from composites. It is an indispensable guide for students and practicing engineers working with composite materials.

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