



Design and Optimization of Laminated Composite Materials

Zafer Gürdal, Raphael T. Haftka, Prabhat Hajela

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Expand your design horizons with a thorough, integrated knowledge of laminate mechanics and design optimization techniques

Offering a thorough treatment of both contemporary design optimization techniques and the mechanics of composite laminates, *Design and Optimization of Laminated Composite Materials* broadens engineers' design horizons by providing them with the information they need to take full advantage of this important class of composite materials. Intended to serve as an undergraduate- to graduate-level course text or a professional reference for practicing engineers, it features a rational, integrated presentation, supplemented with case examples, practice exercises, and valuable programming tips. Important features include:

- * An integrated approach to the analysis and design of laminated composites
- * Selected optimization methods that are suited to the design of laminates with discrete thickness and orientation angles
- * Guidelines on getting the most out of numerical and graphical software applications for laminate optimization problems
- * A companion Web site containing valuable Mathematica(TM)-based programs and helpful tutorials:
www.composite-design.vt.edu

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