

# **Experimental Characterization of Advanced Composite Materials**

Leif A. Carlsson, R. Byron Pipes



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### **Experimental Characterization of Advanced Composite Materials**

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Experimental Characterization of Advanced Composite Materials Leif A. Carlsson, R. Byron Pipes This is the only unified guide and reference to the experimental characterization of advanced composite materials. It covers concisely and systematically the experimental determination of basic elastic, strength and fracture properties of composites.

Included are step-by-step procedures for materials processing, specimen manufacturing and instrumentation, test methods and data reduction methods.

More than 130 schematics and photographs illustrate materials and test methods. An introductory chapter provides a theoretical foundation for the various aspects of experimental characterization covered. Numerous actual stress-strain curves and test results are included for illustration and comparison.

The authors are recognized as leading authorities and educators in this field whose many prior publications comprise an important contribution to the knowledge base of advanced composite materials.



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