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INTRODUCTION TO COMPOSITE MATERIALS David Roylance Department of Materials Science and Engineering Massachusetts Institute of Technology Cambridge, MA 02139 March 24, 2000 Introduction ...
4. Jones, R.M., Mechanics of Composite Materials, McGraw-Hill, New York, 1975.

INTRODUCTION TO COMPOSITE MATERIALS

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Bonding Composite Materials. Composites are used to reduce a product's weight, improve its aesthetics or environmental resistance, allow for greater design freedom and increase its stiffness-to-weight ratio. The category of composite materials is rather broad; for our purposes, let's focus on polymer matrix composites specifically.

Advantages of Adhesive Bonding for Composite Materials

Chapter 1: Introduction to Composite Materials / 7 Fig. 1.7, the coupling between e_{xx} and e_{yy} does not occur. In this case, the application of a tensile stress produces elongation in the x-direction and contraction in the y-direction, and the distorted element remains rectangular. therefore, the coupling effects exhibited by composites occur

Introduction to Composite Materials - ASM International

matrix composite materials. The first three volumes of this handbook currently focus on, but are not limited to, polymeric composites intended for aircraft and aerospace vehicles. Metal matrix composites (MMC) and ceramic matrix composites (CMC), including carbon-carbon composites (C-C) are covered in Volume 4 and Volume 5 , respectively. 5.

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