

Composite materials – Introduction

- ◆ Definition: any combination of two or more different materials at the macroscopic level.

OR

- ◆ Two inherently different materials that when combined together produce a material with properties that exceed the constituent materials.
 - Reinforcement phase (e.g., Fibers)
 - Binder phase (e.g., compliant matrix)
- ◆ Advantages
 - High strength and stiffness
 - Low weight ratio
 - Material can be designed in addition to the structure

Introduction To Composite Materials

StephenW. Tsai



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