

# 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

**Marcel A. Müller**



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