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reinforced fiber plastic,  
glass fiber-reinforced  
aluminium, composites  
with carbon nanotubes,  
and many more.

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composites. and other  
advanced composite  
materials. Composite  
materials are generally  
used for buildings,  
bridges, and  
structures such as boat

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hulls, swimming pool panels, racing car bodies, showerstalls, bathtubs, storage tanks, imitation granite and cultured marblesinks and countertops.

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have grown rapidly both in their applications and their economic importance, and they will no doubt continue to do so. With this growth has come increased attention in engineering curricula, but most coursework tends to focus on laminate theory and the analysis of composites, not on the practical design aspects most important to

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detail of an integrative  
hinge fabricated by  
carbon fiber reinforced  
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that include a honeycomb structure, a mass of hexagonal cells inspired by the shape of the honeycombs produced by bees in their nests. These are often used to produce flat, light materials with a high specific strength. Metal, ceramic and plastic honeycomb composites are used in aircraft and sporting goods.

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