

List two composites applications that are new to you.

1.

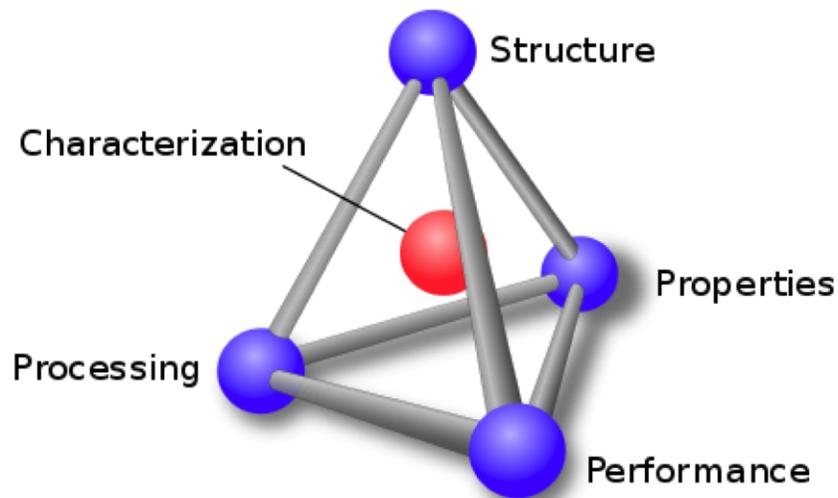
2.

Why do we need to make composites?

What's the difference between a bundle of fibers and a composite when it comes to the failure of one fiber?

Remember that we learned that the Young's modulus, E , of a materials is equal to the ratio of stress over strain (σ/ε). If your matrix phase ($V_m = 0.5$) has a modulus of 10 GPa and your fibers ($V_f = 0.5$) have a modulus of 20 GPa, what is the modulus of the composite?

Which parts of the materials science tetrahedron do composites fall under?



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