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16.1 Introduction. Composite materials are anisotropic and inhomogeneous materials. Composite material is made by combining a minimum of two or more materials, often with different properties. Composite materials usually present unique properties in which the strength-to-weight ratio is high.

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Composites Composites do occur in nature-- e.g., in tree trunks, spider webs, and mollusk shells. A tree is a good example of a natural composite, consisting of cellulose (the fibrous material) and lignin (a natural polymer) forming the woody cell walls and the cementing (reinforcing) material between them.

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4. Jones, R.M., *Mechanics of Composite Materials*, McGraw-Hill, New York, 1975. 5. Powell, P.C., *Engineering with Polymers*, ...

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