

## Composite Materials Engineering

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Composite Materials *Mechanics of Composite Materials* by Prof. Dr. VelMurugan - IIT Madras **composite materials intro** by JEC Introduction to Composite Materials – | **The National Composites Centre - New technology and training to create composite materials** NASA 360 – **Composite Materials** Composite Materials : Vacuum vs Pressure Composite materials: Basic concepts

Advances in Composite Materials Characterization

Mechanics of Composite Materials - Failure Theories

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What is a Composite?

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Advanced composite materials are generally characterized or determined by unusually high strength fibres with unusually high stiffness, or modulus of elasticity characteristics, compared to other materials, while bound together by weaker matrices. These are termed advanced composite materials in comparison to the composite materials commonly in use such as reinforced concrete, or even concrete itself. The high strength fibers are also low density while occupying a large fraction of the volume Ad

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A composite material(also called a composition materialor shortened to composite, which is the common name) is a material produced from two or more constituent materials with notably dissimilar chemical or physical properties that, when merged, create a material with properties, unlike the individual elements.

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A composite material is a combination of two materials with different physical and chemical properties. When they are combined they create a material which is specialised to do a certain job, for instance to become stronger, lighter or resistant to electricity. They can also improve strength and stiffness.

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