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An overview of a diverse range of fibers, their properties, functionality, classification, and various fiber composite manufacturing techniques is presented to discover the optimized fiber-reinforced composite material for significant applications. Their exceptional performance in the numerous fields of applications have made fiber-reinforced composite materials a promising alternative over solitary metals or alloys.

AM of composites has attracted special attention due to its promise in improving, modifying, and diversifying the properties of generic materials through introducing reinforcements. This review provides a detailed landscape of fiber-reinforced composites processed via AM techniques.

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An insight into additive manufacturing of fiber reinforced ...

Fibre-reinforced plastic is a composite material made of a polymer matrix reinforced with fibres. The fibres are usually glass, carbon, aramid, or basalt. Rarely, other fibres such as paper, wood, or asbestos have been used. The polymer is usually an epoxy, vinyl ester, or polyester thermosetting plastic, though phenol formaldehyde resins are still in use. FRPs are commonly used in the aerospace, automotive, marine, and construction industries. They are commonly found in ballistic armor as well.

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Additive Manufacturing Continuous Fiber Manufacturing (CFM) with moi composites Continuous fiber 3D printing using epoxy, vinylester and acrylic with continuous glass, carbon, basalt and other fibers, including deposition along nonlinear curves, is only the beginning.

Continuous Fiber Manufacturing (CFM) with moi composites ...

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