

## Fatigue Of Materials And Structures Application To Design

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[Corrosion fatigue - Wikipedia](#)

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[Fatigue \(material\) - Wikipedia](#)

Corrosion fatigue is fatigue in a corrosive environment. It is the mechanical degradation of a material under the joint action of corrosion and cyclic loading. Nearly all engineering structures experience some form of alternating stress, and are exposed to harmful environments during service life.

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Materials fatigue performance is commonly characterized by an S-N curve, also known as a Wöhler curve. This is often plotted with the cyclic stress (S) against the cycles to failure (N) on a logarithmic scale. S-N curves are derived from tests on samples of the material to be characterized (often called coupons or specimens) where a regular sinusoidal stress is applied by a testing machine ...

[Additive manufacturing of Ti6Al4V alloy: A review ...](#)

Aluminum alloys have been the dominant materials used for airframe structures until the increasing trend in the use of polymer-matrix composites, as shown in Table 4.1 [1,2]. The Boeing 787 and Airbus A350 are built with about 50% of these materials, which are lighter than aluminum alloys and possess better resistance to degradation by corrosion and fatigue.

[EN 1993-1-9: Eurocode 3: Design of steel structures - Part ...](#)

Short glass fiber reinforced plastics (SGFRP) offer superior mechanical properties compared to polymers, while still also enabling almost unlimited geometric variations of components at large scale production. PA6-GF30 represents one of the most used SGFRP for series components, b

the impact of injection molding process parameters on the fatigue properties is still insufficiently investigated.

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Mechanical properties, particularly tensile and fatigue properties, are the mostly used properties to evaluate the performance of load-bearing Ti6Al4V materials. In this section, the tensile and fatigue properties of as-built AM Ti6Al4V products are discussed. 4.1. Tensile test properties

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