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Fatigue life. The American Society for Testing and Materials defines fatigue life, N_f , as the number of stress cycles of a specified character that a specimen sustains before failure of a specified nature occurs. For some materials, notably steel and titanium, there is a theoretical value for stress amplitude below which the material will not ...

Fatigue (material) - Wikipedia

A shape-memory alloy (SMA, smart metal, memory metal, memory alloy, muscle wire, smart alloy) is an alloy that "remembers" its original shape and that when deformed returns to its pre-deformed shape when heated.

Shape-memory alloy - Wikipedia

The key developments in regards to corrosion of Mg alloys are summarized pictorially in Fig. 2. It is noted that a recent surge in activity in the last decade has indicated that there is significant problems that the issues typically associated with Mg alloys are capable of being resolved.

Fundamentals and advances in magnesium alloy corrosion

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