

Microstructure Deformation And Cracking Characteristics | 1535272b66ad483dd3d2653e72a87cae

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The shape deformation due to the bainite transformation is therefore causes plastic deformation in the adjacent austenite. This deformation stops the bainite plates from growing and transformation then proceeds by the nucleation of further plates, which also grow to a limited size.

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The Al-20Si-5Fe-3Cu-1Mg alloy was fabricated using selective laser melting (SLM). The microstructure and properties of the as-prepared SLM, post-treated SLM, and SLM with substrate plate heating are studied. The as-prepared SLM sample shows a non-uniform microstructure with four different phases: fcc- α Al, eutectic Al-Si, Al₂MgSi, and δ -Al₄FeSi₂.

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Fracture mechanics is the field of mechanics concerned with the study of the propagation of cracks in materials. It uses methods of analytical solid mechanics to calculate the driving force on a crack and those of experimental solid mechanics to characterize the material's resistance to fracture. In modern materials science, fracture mechanics is an important tool used to improve the ...

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HY-80 is a high-tensile, high yield strength, low alloy steel. It was developed for use in naval applications, specifically the development of pressure hulls for the US nuclear submarine

program and is still currently used in many naval applications. It is valued for its strength to weight ratio. [citation needed]The "HY" steels are designed to possess a high yield strength (strength in ...

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Fig. 1 Microstructure and mechanical properties of the CrMnFeCoNi high-entropy alloy. (A) Fully recrystallized microstructure with an equiaxed grain structure and grain size of $\sim 6 \mu\text{m}$; the composition is approximately equiatomic, and the alloy is single-phase, as shown from the EDX spectroscopy and XRD insets.(B) Yield strength σ_y , ultimate tensile strength σ_{uts} , and ductility (strain to ...

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Review methods used to repair aerospace structures. Emphasis on primary load-bearing airframe structures and analysis/design of substantiate repairs. Identification of structural/corrosion distress, fatigue cracking, damage tolerance, integrity and durability of built-up members, patching, health monitoring. Use of computer resources.

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The high scatter is a result of production-related differences in the microstructure during sample preparation. Such differences can never be completely avoided. Even minor surface impurities can lead to premature cracking and premature breakage of the sample. ... As a result of the microscopic deformation, hardening effects and thus ...

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