

Microstructure Deformation And Cracking Characteristics

Microstructure Deformation And Cracking Characteristics present in the material and preferred pathways for local cracking and separation have been determined. Thin intersplat oxide layers emerge as preferential sites. These oxides are amorphous and the cracks extend along the oxide:α-Fe interfaces with low local fracture toughness, in the range 0.2–1 MPa m.

Microstructure, deformation and cracking characteristics

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Microstructure, deformation and cracking characteristics of thermal spray ferrous coatings. ... The objective is to establish some of the basic microstructural characteristics of these

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materials and to relate the microstructure to those local mechanical responses that affect their performance, particularly in wear and pull-out. ...

Microstructure, deformation and cracking characteristics

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Microstructure Deformation And Cracking Characteristics Author:

s2.kora.com-2020-10-14T00:00:00+00:01 Subject:

Microstructure Deformation And Cracking Characteristics

Keywords: microstructure, deformation, and, cracking, characteristics Created Date: 10/14/2020 6:22:19 PM

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Microstructure, deformation and cracking characteristics of thermal spray ferrous coatings A. Rabiei a,*, D.R. Mumm a, J.W. Hutchinson a, R. Schweinfest c, M. Ru"hle c, ... tural

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characteristics of these materials and to relate the The analytical mode in the SEM was used to provide

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BibTeX @MISC{A99microstructure,deformation, author = {A. Rabiei A and D. R. Mumm A and J. W. Hutchinson A and R. Schweinfest C and M. Rühle C}, title = {Microstructure, deformation and cracking characteristics of thermal spray ferrous coatings}, year = {1999}}

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Therefore, the repaired sample exhibits characteristics of good cracking prevention. 5. Conclusions (1) Laser repairing of grey cast iron surface is achieved with iron-based Fe314 and 316L alloy powder. The microstructure is compact and homogeneous, and the metallurgical bonding is reliable.

Microstructure Formation and Fracturing Characteristics of ...

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Abnormal grain growth (AGG) and cracking occurred when the composite was deformed at high temperature with low strain rate. A few of CNTs were embedded into coarse grains as AGG occurred, and the micro-cracks formed at the boundaries between the coarse and the fine grained zones.

Hot deformation behavior and microstructure evolution of ...

The schematic of cracking during deformation is drawn in ... According to the processing map and corresponding microstructure characteristics, the optimum processing parameters are in the ...

(PDF) Hot deformation behavior and microstructure ...

Microstructure and Failure Characteristics of Nanostructured Molybdenum-Copper Composites Katharina T. Schwarz, Julian M. Rosalie, Stefan Wurster, Reinhard Pippan, and Anton

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Hohenwarter* Liquid-metal infiltrated Cu 30Mo 70 (wt%) is subjected to severe plastic deformation using high-pressure torsion. The initially equiaxed dual ...

Microstructure and Failure Characteristics of ...

Deformation mechanisms of bones differ from those of metals, polymers and composites since bones consist of a living tissue with hierarchical microstructure. The aim of this study is to analyse deformation characteristics of the cortical bone tissue from both experimental and numerical perspectives.

Analysis of Deformation Characteristics of Cortical Bone

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This paper presents the results of an experimental investigation on the deformation and cracking behaviors of ring-shaped granite specimens. Diametrical compression tests were conducted on ring-shaped granite specimens with inclusion and

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those without inclusion for comparison. The inclusion materials were of different strengths, stiffness, and sizes.

Deformation and cracking characteristics of ring-shaped

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Abstract. In order to research the formation mechanism of [006] texture of cast/hot-pressed magnets, effects of compositions, hot deformation parameters, and thermal annealing on [006] texture and microstructures of hot-pressed magnets of $\text{Pr}_x\text{Fe}_{93.5-x}\text{B}_5\text{Cu}_{1.5}$ ($x=15-19$) have been studied under the conditions of hot-pressing temperature $T=973-1273$ K, strain rate $V=10^{-6}-10^0$ /S, and strain E ...

Microstructure characteristics of hot-pressing Pr-Fe-B-Cu

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makes deformation more complex and the microstructure is a decisive limiting factor on plastic behavior. In addition to the

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work hardening and softening mechanisms required to deform each phase, the boundaries play an important role in duplex microstructures; the accommodation of macroscopic deformation depends on the plastic characteristics of

Influence of the Microstructure of Duplex Stainless Steels

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in single β region deformation strain, while DRV was the dominated mechanism at the wide temperature range in both ($\alpha+\beta$) and single β regions. Seshacharyulu et al. 11 reported the changing regulation of deformation mechanism with varying deformation parameters of commercial grade Ti-6Al-4V alloy. The material suffered from cracking and

Effect of Processing Parameters on Hot Deformation ...

The present study examines the deformation behavior of ion-irradiated, low-carbon 304L stainless steel to investigate the

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influence of irradiation microstructure, deformation temperature and strain rate on localized plasticity. Dislocation loop character, size and density are linked to changes in deformation character.

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