

deformation of polycrystals mechanisms pdf

Twin nucleus proposed by Mahajan and Chin as used in the model presented in Acta Materialia 61 (2013) 494-510. λ . $d(111)$ is the interplanar spacing in 111 direction, L_0 is the length of the sessile partial dislocations forming the twin nucleus and r is the distance the mobile partial dislocations have bowed out.

TWIP, TRIP, AHSS, stainless steel, high Mn steel, manganese

Polycrystal mechanics deals with the anisotropic constitutive laws of the elastic-plastic deformation of crystals and their interactions among each other.. Reprints - single crystal and polycrystal mechanics Reprints - dislocation simulation

CPFEM, strain map. crystal plasticity, crystal plasticity

The production of metallic materials is impressive not only due to the quantity produced, more than 10 9 tons/year, but also due to its diversity. It is estimated that there are more than 40.000 metallic alloys. Forging, rolling, extrusion and drawing deform about 90% of the production of metals and ...

Nucleation and growth during recrystallization - SciELO

Grain-boundary strengthening (or Hall-Petch strengthening) is a method of strengthening materials by changing their average crystallite (grain) size. It is based on the observation that grain boundaries are insurmountable borders for dislocations and that the number of dislocations within a grain have an effect on how stress builds up in the adjacent grain, which will eventually activate ...

Grain boundary strengthening - Wikipedia

Safe and high-density storage of hydrogen is a key issue for development of hydrogen as a clean energy carrier. Hydride-forming materials are potential candidates for safe and high-density storage of hydrogen and among them; Mg-based alloys are the most investigated ones due to their high gravimetric capacity.

Design and synthesis of a magnesium alloy for room

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A superhard material is a material with a hardness value exceeding 40 gigapascals when measured by the Vickers hardness test. They are highly incompressible solids with high electron density and high bond covalency. As a result of their unique properties, these materials are of great interest in many industrial areas including, but not limited to, abrasives, polishing and cutting tools and wear ...

Superhard material - Wikipedia

1. Basic concepts 1.1.. Categories of nanostructured materials One of the very basic results of the physics and chemistry of solids is the insight that most properties of solids depend on the microstructure, i.e. the chemical composition, the arrangement of the atoms (the atomic structure) and the size of a solid in one, two or three dimensions.

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