

dislocations in solids volume pdf

Abstract. The coupling of electron channeling contrast imaging (ECCI) with EBSD provides an efficient and fast approach to perform ECCI of crystal defects, such as dislocations, cells, and stacking faults, under controlled diffraction conditions with enhanced contrast. From a technical point of view, the ECCI technique complements two of the main electron microscopy techniques, namely, EBSD ...

Electron channeling contrast imaging, ECCI, SEM

Work hardening, also known as strain hardening, is the strengthening of a metal or polymer by plastic deformation. This strengthening occurs because of dislocation movements and dislocation generation within the crystal structure of the material. Many non-brittle metals with a reasonably high melting point as well as several polymers can be strengthened in this fashion.

Work hardening - Wikipedia

In physics and materials science, plasticity describes the deformation of a (solid) material undergoing non-reversible changes of shape in response to applied forces. For example, a solid piece of metal being bent or pounded into a new shape displays plasticity as permanent changes occur within the material itself.

Plasticity (physics) - Wikipedia

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Grain boundaries are natural obstacles to the motion of dislocations during plastic straining of crystalline matter. As such, they may be the cause of grain-scale heterogeneity in terms of the mismatch of the elastic-plastic strain rate, internal stress, and crystallographic reorientation rate fields.

CPFEM, strain map. crystal plasticity, crystal plasticity

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American Institute of Mathematical Sciences

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Thermal decomposition of ammonium perchlorate - ScienceDirect

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RACGP - Hands, fingers, thumbs “ assessment and management

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Technology - GlobalWafers

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Nanostructured materials: basic concepts and microstructure

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