

Texture And Anisotropy Preferred Orientations In Polycrystals And Their Effect On Materials Properties

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Texture And Anisotropy Preferred Orientations

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9780521794206: Texture and Anisotropy: Preferred ...

Preferred Orientations in Polycrystals and theirEffect on Materials PropertiesDescription: Many man-made materials and naturally occurring substances are aggregates of crystals, or polycrystals, with a non-random distribution of orientations.

Texture and Anisotropy. Preferred Orientations in ...

Texture and Anisotropy: Preferred Orientations in Polycrystals and Their Effect on Materials Properties. U. F. Kocks, C. N. Tomé, H. -R. This book provides valuable information for all scientists and engineers interested in materials properties.

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Texture and Anisotropy: Preferred Orientations in ...

A large number of polycrystalline materials, both manmade and natural, display preferred orientation of crystallites. Such alignment has a profound

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effect on anisotropy of physical properties. Preferred orientation or texture forms during growth or deformation and is modified during recrystallization or phase transformations and theories exist to predict its origin.

Texture and anisotropy - IOPscience

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(PDF) Texture and Anisotropy. Preferred Orientations in ...

Only recently has this field emerged as a coherent part of earth science research linking such branches as mineralogy, petrology, structural geology, geodynamics and seismology. The reason for this was the emergence of quantitative methods to analyze preferred orientation, or "texture" as it was first called by Naumann (1850).

[PDF] Texture and Anisotropy | Semantic Scholar

Preferred orientation of crystallites (or texture) is an intrinsic feature of metals, ceramics, polymers and rocks and has an influence on physical properties such as strength, electrical conductivity, piezoelectricity, magnetic susceptibility, light refraction and wave propagation,

Texture and anisotropy - UC Berkeley

In materials science, texture is the distribution of crystallographic orientations of a polycrystalline sample. A sample in which these orientations are fully random is said to have no distinct texture. If the crystallographic orientations are not random, but have some preferred orientation, then the sample has a weak, moderate or strong texture. The degree is dependent on the percentage of crystals having the preferred orientation. Texture is seen in almost all engineered materials, and can hav

Texture (crystalline) - Wikipedia

Such alignment has a profound effect on anisotropy of physical properties. Preferred orientation or texture forms during growth or deformation and is modified during recrystallization or phase ...

Texture and Anisotropy - ResearchGate

Creep behavior of specimens with loading parallel to the building direction is superior compared to specimens with loading axis normal to the building direction. The anisotropy of Young's modulus was modeled based on the single crystal elastic tensor and the measured crystallographic preferred orientations,...

Texture, anisotropy in microstructure and mechanical ...

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[PDF] Texture and Anisotropy: Preferred Orientations in ...

Preferred orientation and elastic anisotropy of illite-rich shale ... One of the factors contributing to seismic anisotropy of shales is the preferred orientation of clay minerals e.g., Jones and Wang, 1981; Vernik and Nur, 1992; Hornby et al., 1994; Sayers, 1994, 2005 . Preferred orientation or texture, as it is more commonly called in ...

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A large number of polycrystalline materials, both manmade and natural, display preferred orientation of crystallites. Such alignment has a profound

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effect on anisotropy of physical properties. Preferred orientation or texture forms during growth or deformation and is modified during recrystallization or phase transformations and theories exist to predict its origin.

Texture and anisotropy - NASA/ADS

If the crystallographic orientations are not random, but have some preferred orientation, then the sample has a weak, moderate or strong texture. The degree is dependent on the percentage of...

Texture (crystalline)

Texture and anisotropy : preferred orientations in polycrystals and their effect on materials properties. [U F Kocks; Hans-Rudolf Wenk; C N Tomé] -- This book is about the measurement and analysis of textures, the prediction of polycrystal properties from measured textures and known single crystal properties and the development of texture and ...

Texture and anisotropy : preferred orientations in ...

Texture and Anisotropy: Preferred Orientations in Polycrystals and their Effect on Materials Properties by U. F. Kocks (August 15, 2000) [U. F. Kocks; C. N. Tomé; H. -R. Wenk] on Amazon.com. *FREE* shipping on qualifying offers. Texture and Anisotropy: Preferred Orientations in Polycrystals and their Effect on Materials Properties by U. F. Kocks (August 15

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