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Texture and Anisotropy: Preferred Orientations in ...

Synopsis. About this title. Many man-made materials and naturally occurring substances are aggregates of crystals, or polycrystals, with a non-random distribution of orientations. In such textured polycrystals, many macroscopic physical properties are anisotropic, i.e. they depend on direction. 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 prediction of the development ...

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Texture and Anisotropy: Preferred Orientations in ...

Texture and Anisotropy: Preferred Orientations in Polycrystals and Their Effect on Materials Properties. This book provides valuable information for all scientists and engineers interested in materials properties. Coverage discusses the measurement and analysis of textures, the prediction of polycrystal properties from measured textures and known single crystal properties, and the prediction of the development of texture and the ensuing anisotropic properties during elastic a.

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Texture and Anisotropy: Preferred Orientations in ...

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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, particularly in the anisotropy of these properties.

Texture and anisotropy

The anisotropic change of case 2 becomes progressively closer to that of case 4 as the texture broadening width ω increases. At the texture broadening width ω of 15° , both cases exhibit almost the same lowest plastic anisotropy. Generally speaking, in-plane plastic anisotropy tends to reduce under the condition that the volume fraction of the S component is the largest, and that of the Brass component is the smallest amongst the three main components of retained texture.

Effect of texture components on plastic anisotropy and ...

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 In materials science, texture is the distribution of crystallographic orientations of a polycrystalline sample.

Texture And Anisotropy Preferred Orientations In ...

The study of preferred orientation of minerals in rocks dates back to Omalius d'Halloy (1833) who attributes a special significance to the alignment of crystals as an indicator of the formation process. Much later the influence of crystal alignment on physical properties was quantified (e.g., Weissenberg 1922, Voigt 1928, Reuss 1929). Only recently has this field emerged as a coherent part ...

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The texture is directly related to the anisotropic behavior of the material, which has a significant impact on the mechanical properties and forming of the panel . Orientation distribution functions (ODFs) are commonly used to determine the type of texture, and to quantitatively analyze the relative volume fraction of each texture.

Anisotropy in creep ageing behavior of textured Al-Cu ...

Crystal preferred orientation (CPO) of antigorite—which denotes the anisotropic spatial alignments of antigorite crystallographic axes and planes in a structural reference frame—is another important feature, because it is generally believed to be capable of making a significant contribution to the worldwide observations of trench-parallel seismic anisotropies in the forearc regions and strike-parallel seismic anisotropies in the continental shear zones (Bezacier, Reynard, Bass ...

Geneses of Two Contrasting Antigorite Crystal Preferred ...

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

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