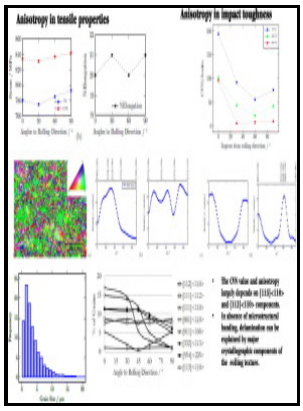
Textures and anisotrophy in titanium.

(n. pub.) - Anisotropic Yield Locus Evolution During Cold Pilgering of Titanium Alloy Tubing



Description: -
-Textures and anisotrophy in titanium.
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Notes: Thesis (Ph. D.)- University of Birmingham, Dept. of Industrial Metallurgy, 1972.
This edition was published in 1972

Tags: #Magnetic #Anisotropy #and #Cold #Worked #Texture #of #Titanium

Anisotropic Yield Locus Evolution During Cold Pilgering of Titanium Alloy Tubing

This strong - phase texture resulted in tensile anisotropy.

Texture Of Ti And Its Alloy

Above β transus it will depend upon the transformation property of the alloy. Evolution of texture and microstructure in thermomechanical Ti-64 by H. ORNL , Oak Ridge, TN United States ; Shared Research Equipment Collaborative Research Center Sponsoring Org.

A review of texture strengthening of titanium alloys

The materials are experimentally characterized using a biaxial testing apparatus, which subjects the specimen tubes to combined axial load and internal pressure. ECAE texture of Ti-64 will depend upon the separation of the twin partial.

Effect of texture on anisotropy at 600 °C in a near

The formation and transition of cold-rolling texture, recrystallization texture and phase transformation texture are also discussed. Transformation texture will depend upon prior cold reduction, cooling rate, and planar disregistry.

Anisotropic Yield Locus Evolution During Cold Pilgering of Titanium Alloy Tubing

The extrusions, which were performed in the {beta}-phase field, resulted in a significantly smaller grain size, a smaller {alpha}-colony size, and finer {alpha}-lath width compared to that for the as-cast B-modified alloys. The restriction of creep deformation in TD samples was believed resulting from the effect of T-type texture on self- and solute diffusion. Strong basal texture is observed.

Texture and mechanical anisotropy in cold rolled and annealed pure Ti sheets (Journal Article)

Geisler: Preferred Orientations in Rolled and Annealed Titanium. The three alloy compositions were 6Al-4V Ti ELIGrade, 6Al-4V Ti Standard Grade, and 6Al-2Sn-4Zr-6Mo Ti.

Related Books

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