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### Formability Of Metallic Materials Plastic

A large chapter is devoted to formability testing both for bulk metal and sheet metal forming. For the first time testing methods for plastic anisotropy of round bars and tubes are included. A profound survey is given of literature about yield criteria for anisotropic materials up to most recent developments and the calculation of forming limits of anisotropic sheet me- tal.

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Formability of Metallic Materials: Plastic Anisotropy, Formability Testing, Forming Limits. Dr. Dorel Banabic, H.-J. Bunge, K. Pöhlandt, A. E. Tekkaya (auth.), Dr. Dorel Banabic (eds.) After a brief introduction into crystal plasticity,the fun- damentals of crystallographic textures and plastic anisotro- py, a main topic of this book, are outlined.

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Formability of a material includes the capability to undergo plastic deformation to a given shape without defects. The defects have to be...

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Besides the flow curve and plastic anisotropy, the formability of a material includes the capability to undergo plastic deformation to a given shape without defects. Thus, its prediction becomes more complex in TWBs with LWMA and dissimilar materials due to the presence of differential strength and weld metals.

### Formability - an overview | ScienceDirect Topics

The formability of the metallic materials strongly depends on their deformation mode, loading history and on the plastic behavior and anisotropy of the rolled sheets. Thus, its prediction becomes more complex in TWBs with LWMA and dissimilar materials due to the presence of differential strength and weld metals.

### Formability - Wikipedia

Formability of Metallic Materials: Plastic Anisotropy, Formability Testing, Forming Limits H.J. Bunge , K. Pöhlandt , A.E. Tekkaya , D. Banabic , D. Banabic , Klaus Pöhlandt After a brief introduction into crystal plasticity,the fun- damentals of crystallographic textures and plastic anisotro- py, a main topic of this book, are outlined.

### Formability of Metallic Materials: Plastic Anisotropy ...

Metal forming involves changing the shape of the material by permanent plastic deformation. After converting non-porous metal into product form by metal forming processes, the mass as well as the volume remains unchanged. However, in the case of metal forming of porous metal, volume does not remain unchanged.

### What factors influence formability in metal forming? - Quora

The plasticity and formability of a commercially-pure aluminum sheet (AA1100-O) is assessed by experiments and analyses. Plastic anisotropy of this material is characterized by uniaxial and plane-strain tension along with disk compression experiments, and is found to be non-negligible (e.g., the r-values vary [...])

### Materials | Special Issue : Formability of Materials

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### Formability of Metallic Materials : Plastic Anisotropy ...

Formability is the ability of a given metal workpiece to undergo plastic deformation without being damaged. The plastic deformation capacity of metallic materials, however, is limited to a certain extent, at which point, the material could experience tearing or fracture (breakage).

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