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Nota di contenuto

Advanced Mechanical Properties and Deformation Mechanisms of Bulk Nanostructured Materials; Preface; Table of Contents; I. Advanced Mechanical Properties of Nanostructured Materials; On the Conflicts in the Experimental Results Concerning the Mechanical Properties of Ultra-Fine Grained and Nanostructured Materials: Effects of Processing Routes and Experimental Conditions; On the Cyclic Deformation Response and Microstructural Mechanisms of ECAPed and ARBed Copper - an Overview
The Effect of Grain Boundary State on Deformation Process
Development in Nanostructured Metals Produced by the Methods of Severe Plastic Deformation
Improvement of Fracture Toughness (K_{1c}) of 7075 Al Alloy by Cryorolling Process; The Influence of Stacking Fault Energy on the Cold-Rolling Cu and Cu-Al Alloy: Structure and Mechanics Properties; Influence of Annealing on the Microstructure and Mechanical Properties of Electrodeposited Nanocrystalline Nickel; Mechanical Behaviors of Electrodeposited Bulk Nanocrystalline Metals and Alloys
Microstructure and Microhardness of a Nanostructured Nickel-Iron Based Alloy
Mechanical and Functional Properties of Titanium Alloys Processed by Severe Plastic Deformation; Mechanical Properties and Fracture Behaviour of Nanostructured and Ultrafine Structured TiAl Alloys Synthesised by Mechanical Milling of Powders and Hot Isostatic Pressing; II. Deformation Mechanics of Bulk Nanostructured Materials; Structure Evolution and Deformation Resistance in Production and Application of Ultrafine-Grained Materials - the Concept of Steady-State Grains
Stages of Plastic Deformation in Metallic Nanocrystals
Tensile Deformation Behaviors of Ultra-Fine Subgrained Aluminum; Deformation Mechanisms in Nanocrystalline Nickel at Low Temperatures; Kinetic Modeling of the Deformation Behavior of High-Strength Nanostructured Al-Mg Alloys; Vortices and Mixing in Metals during Severe Plastic Deformation; Process Design Concepts for the Production of Ultrafine Grained Steels through Multi-Pass Warm Rolling: Bridging Science and Technology; Grain Refinement in Commercial Purity Titanium Sheets by Constrained Groove Pressing
Achievable Strength of Nanostructured Composites with Co-Deformable Components
Thermal Stability of Fine Grains as a Function of Process Parameters in FSW Butt Joints; Keywords Index; Authors Index

Sommario/riassunto

Bulk nanostructured (NS) materials have emerged as a new class of materials having unusual structures and properties. As a result, they have attracted considerable attention in recent years. Bulk NS materials are single or multi-phase polycrystals with a nanoscale grain size and can usually be classified into nanocrystalline (<100nm) and ultrafine grain (<1000nm) materials. This book contains important papers on the mechanical properties and deformation mechanisms of bulk NS materials. The advanced properties include strength, ductility, strain-hardening, fatigue, dynamic, creep and toughness,