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Nota di contenuto	Materials Processing and Texture; Contents; Preface; Acknowledgments; FRICTION STIR WELDING AND PROCESSING; Texture Evolution during Friction Stir Welding of Stainless Steel; Texture Development in Aluminum Friction Stir Welds; Microstructural Studies of a Friction-Stir-Welded AA5052; Effect of Microstructure on Mechanical Properties of Friction-Welded Joints between Aluminum Alloys (6061, 5052) and 304 Stainless Steel; Effect of Texture on Fracture Limit Strain in Friction Stir Processed AZ31B Mg Alloy; Microstructure and Texture Analysis of Friction Stir Welds of Copper TEXTURE AND ANISOTROPY IN STEELThe Effects of Texture on the Corrosion Resistance of SS304 Stainless Steel; Microstructural Characterization of Dual Phase Steels by Means of Electron Microscopy; Grain Size Effect on the Tensile Behavior of a FeMnC TWIP Steel in Relation with the Microstructure and Texture Evolutions; Combination

of Two X-Ray Diffraction Settings for Determining the Texture of Small Sheared Samples; Texture of Non-Oriented Rolled Steels by X-Ray and Electron Diffraction

Effect of Coating Texture on Powdering Behavior of Industrially Produced Galvannealed Coating on IF, IFHS and HSQ Grade Steels Including Elastica Anisotropy Due to Texture in a Finite Element Model for the Prediction of Residual Stresses in Welds; Texture and Microstructure Evolution in a Fe-Si CGO Sheet during the Processing Route before Secondary Recrystallization; TEM Study of the Inhibition Layer of Commercial Hot-Dip Galvanized Steels; Measurement of the Texture Sharpness in Grain-Oriented Electrical Steels

Effects of Composition and Coiling Temperature on Precipitation and Texture Formation in a Few Interstitial Free High Strength Steels Microstructure and Texture Development in Warm Rolled High Strength IF Steels Containing Cu, P and B; Effect of Tin on the Texture of Nonoriented Electrical Steels; Effect of Cold Rolled Reduction on the Texture and Plastic Strain Ratio of 2205 Duplex Stainless Steel; Importance of Dislocation Substructures in Texture Control of Low Carbon Steel; Texture Control in Manufacturing Current and Future Grades of Low-Carbon Steel Sheet

Relative Preference for Strain Localizations in Ultra Low Carbon Steel Influence of Texture on Surface-Roughening during Press Forming in Ti Added High Purity Ferritic Stainless Steel Sheets; Effect of Tin on the Recrystallization Behavior and Texture of Grain Oriented Electrical Steels; EBSD Investigation of Phase Transformation in Low Carbon Steels; A Monte-Carlo Algorithm for the Zener Drag Effect in the Fe-3% Si Magnetic Alloys; Effect of Strain and Strain Path on Deformation Twinning and Strain Induced Martensite in AISI 316L and 304L Austenitic Stainless Steel

Analysis of the Formation and Growth of Recrystallizing Grains in IF Steels by In-Situ EBSP

Sommario/riassunto

This volume contains papers presented at The 15th International Conference on the Texture of Materials from June 1-5th, 2008 in Pittsburgh, PA. Chapters include: Friction Stir Welding and Processing Texture and Anisotropy in Steels Effects of Magnetic Fields Hexagonal Metals Texture in Materials Design View information on Applications of Texture Analysis: Ceramic Transactions, Volume 201.
