

1. Record Nr.	UNINA9911019888403321
Titolo	Applications of texture analysis : a collection of papers presented at the 15th International Conference on Textures of Materials (ICOTOM 15), June 1-6, 2008, Pittsburgh, Pennsylvania // edited by A.D. Rollett
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, c2009
ISBN	9786612113499 9781282113497 1282113496 9780470444214 0470444215 9780470444207 0470444207
Descrizione fisica	1 online resource (838 p.)
Collana	Ceramic transactions ; ; v. 201
Classificazione	UQ 8500
Altri autori (Persone)	RollettA. D (Anthony D.)
Disciplina	620.11
Soggetti	Materials - Texture Metals - Texture Texture (Crystallography)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"American Ceramic Society."
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Applications of Texture Analysis; Contents; Preface; Acknowledgments; THIN FILMS (MICROELECTRONICS, HTSC; The Texture of Thin NiSi Films and Its Effect on Agglomeration; Epitaxial Substrates from Ni-Based Ternary Alloys With Cr and W; Cube Texture Formation in Ni-Pd and Ni-Pd-W Alloys For HTS Tapes; Texture of Rapidly Solidified Cu Thin Films Studied by SEM EBSD and TEM; Control of Texture in Polycrystalline Thin Films Used as DataStorage Media; Influences of Processing Parameters on Microstructures and Microtextures of Au Flip Chip Bonds During Microelectronics Packaging TEXTURE AT NON-AMBIENT CONDITIONSIn Situ Observation of Texture Evolution in Ti-10-2-3; Study of Texture Evolution at High Strain Rates in FCC Materials; Texture and Microstructure Development in Copper after Cryogenic Rolling and Heat Treatment; In-Situ EBSD Study of the -- Phase Transformation in a Microalloyed Steel; Texture Changes

during Phase Transformations Studied In Situ With Neutron Diffraction; NOVEL TEXTURE MEASUREMENT TECHNIQUES INCLUDING 3D; Three-Dimensional FIB-OIM of Ceramic Materials; Comparison of X-Ray and EBSD Textures for Back-Annealed Al-Mg Alloys
A New Method for Quantification of Texture Uniformity of Plate Separating Coincident Electron Backscatter Diffraction Patterns Near Interfaces; Rapid Texture Determination Based on Two Dimensional X Ray Detector; Semiautomatic Determination of Orientations and Elastic Strain from Kossel Microdiffraction; Statistically Reliable EBSD Analysis Method of Grain Boundary Characterization; 3D Microstructures and Textures of a Plane Strain Compressed {1 10} Al-0.3% Mn Single Crystal
Three Laws of Substructure Anisotropy of Textured Metal Materials, Revealed by X-Ray Method of Generalized Pole Figures 3D-Microstructural and Texture Characterization in Different Length Scales; Local Crystal Rotations of Bulk Grains by High-Resolution EBSD during Hot PSC of Al-0.1 % Mn Polycrystals; Grain Boundary Orientations in a Fe-Mn-Cu Polycrystalline Alloy; Development of a TEM-Based Orientation Microscopy System; COMPLEX OXIDES AND OTHER COMPOUNDS; Domain Control Effect on Voltage-Strain in BaTiO₃ Single Crystal; Tentative Simulation of Crystal Rotation for NaCl Structures INTERFACE TEXTURES Grain Boundary Patterns in Dynamically Recrystallized Quartz Aggregates; The Correlation between Grain Boundary Character and Intergranular Corrosion Susceptibility of 2124 Aluminum Alloy; Rodrigues-Frank Spaces for Misorientations and Orientation Relationships between Crystals of Any Two Crystallographic Point Groups; Origins of Texture Memory in Steels; A Grain Boundary Analysis of Cemented Tungsten Carbides using OIM; The Effect of Grain and Phase Boundary Misorientation on Nucleation during Solid-State Phase Transformations in a Co-15Fe Alloy
Microstructural Modification in a 15Cr-1.5Ni-2.2 Mo-Ti Modified Austenitic Stainless Steel through Twin Induced Grain Boundary Engineering

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: Thin Films Texture at Non-Ambient Conditions Novel Texture Measurement Techniques Including 3D Complex Oxides Interface Textures Recrystallization Texture Biomaterials Texture Effects on Damage Accumulation Digital Microstructures View information on Materials Processing and Texture: Ceramic Transactions, Volume 200.
