Record Nr. UNINA9910810594103321 Defects and diffusion in metals: an annual retrospective XI / / edited **Titolo** by D.J. Fisher Pubbl/distr/stampa Durnten-Zurich, Switzerland: ,: Trans Tech Publications, , [2009] ©2009 **ISBN** 3-03813-292-6 Descrizione fisica 1 online resource (277 p.) Collana Defect and diffusion forum;; 293 Altri autori (Persone) FisherD. J Disciplina 620.163 Metals - Defects Soggetti Diffusion Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and indexes. Nota di contenuto Defects and Diffusion in Metals, 2009: Table of Contents: Metals: Electronic States and Doping Effect of Carbon in the Kink of BCC Iron; A Study of the Variation of Monovacancy Formation Energy with the Parameter of Ashcroft's Potential and Different Exchange and Correlation Functions for Some Group-IIa and Group-VIII FCC Metals in the Active Divalent State: Migration of Thermal Vacancies in Quenched Pure AA1050 by Positron Annihilation; Spectrum Analysis of Acoustic Emission Signal Obtained during Breakaway Oxidation of 2.25Cr-1Mo Steel Determination of Hydrogen Diffusivity in Rail Steels by Sub-Scale Microhardness Profiling TechniqueCeramics; Heat Treatment of Bi(Pb)-Sr-Ca-Cu-O Thin Films Prepared by Pulsed Laser Deposition; Effect of

Heat Treatment on the Structural, Morphological and Optical Properties

of Tin-Doped ZnO (x=0.0 and x=0.05) Thin Films; Structural and Morphological Studies of TiO2 Films for Dye-Sensitized Solar Cell Applications; Structural and Morphological Studies of Porous ZnO for

Theoretical Investigations of the Spin Hamiltonian Parameters and Defect Structure for Pt3+ in MgOChemical Precipitation Synthesis and Magnetic Properties of Hematite Nanorods; Relationship Study among Nanocrystallite Distribution and Roughness of a Nanostructured Hard Layer; Non-Ohmic Behavior of Some ZnO Ceramic Defective Ions with

**Dve-Sensitized Solar Cell Applications** 

Different Valences; Effect of Molarity of Precursor Solution on Nanocrystalline Zinc Oxide Thin Films; Semiconductors; Effect of Bi Additions upon the Physical Properties of Germanium Telluride Glassy Semiconductors

Photo-Induced Relaxation Self-Oscillations of Stripe Structures in FeBO3Abstracts; Keywords Index; Authors Index

## Sommario/riassunto

This eleventh volume in the series covering the latest results in the field includes abstracts of papers which appeared between the publication of Annual Retrospective X (Volume 278) and the end of August 2009 (journal availability permitting). As well as the 352 metals abstracts (a lower number than usual due to 'general' papers now being covered by a separate series), the issue includes: ""Electronic States and Doping Effect of Carbon in the Kink of BCC Iron (Qiu, Xia, Chen), ""A Study of the Variation of Monovacancy Formation Energy with the Parameter of Ashcroft's Potential and Different E