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Nota di contenuto	Advances in Semiconducting Materials; Preface; Table of Contents; Internal Deterioration of Mortars in Freeze-Thawing: Non-Destructive Evaluation by Means of Electrical Impedance; A New Measuring System for Determining the Magnetic Viscosity in Permanent Magnets; Microstructure Formation of Al-Fe-Mn-Si Aluminides by Pressure-Assisted Reactive Sintering of Elemental Powder Mixtures; Crack Disappearance by High-Temperature Oxidation of Alumina Toughened by Ni Nano-Particles; Microstructural Characterization of Electro-Deposited CdSe Thin Films Effect of pH on Composition, Structure and Magnetic Properties of Electrodeposited Co-Ni AlloysPreparation and Microstructural Studies of Electrodeposited FeSe Thin Films; Electrochemical Deposition and Characterization of Cd-Fe-Se Thin Films; Structural and Optical Studies of Hot Wall Vacuum Evaporated CdTeSn Thin Films; Nanocrystalline Sm0.5Y0.5Co5 Alloys with Enhanced Magnetic Properties; Electronic Structure of YFe2 by EELS and Ab Initio Calculations; Borides Precipitation in the FeAl40 Intermetallic Compound Produced by Atomization-Deposition Process

Structural Transformations of Boron Nitride Powders Obtained by Mechanical Milling ProcessImpedance Response of Franklinite Films to Humidity and Propane; Friction Stir Linear Welding of an Aluminum Alloy; Annealing Effect on Microstructure and Coercivity of YCo5 Nanoparticles Obtained by Mechanical Milling; Joining of WC-Co to Ni by Direct Diffusion Bonding; Effect of Li on the Corrosion Behavior of Al-Cu/SiCp Composites; Magnetic and Electronic Properties of the Compound Y(Co,Fe)5 Calculated by the Augmented Spherical Wave Method
Comparative Study of Corrosion in Physiological Serum of Ceramic Coatings Applied on 316L Stainless Steel SubstrateCharacterization of Galvannealed HSLA Steels; Characterization of Friction Stir Welding on Aluminum; Characterization of Magnetic Particles Using a Wavelet Function; Keywords Index; Authors Index

Sommario/riassunto

Updated knowledge on ""Advances in semiconducting materials"" is of great significance for both fundamental research and industrial application. The papers contained in this special volume address diverse topics related to recent trends in the science of semiconducting materials as related to synthesis, characterization, applications, etc. The volume will offer readers a good opportunity to review state-of-the-art developments in, and future directions of, semiconducting materials and technology.