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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Advanced Materials and Structures V; Preface, Committees and Sponsor; Table of Contents; Chapter 1: Advanced Materials; About Replacement of Nickel as Amorphization Element for Fabrication of Ultra-Rapidly Solidified Ti-Zr Alloys; The Effect of Mo and Al on the Corrosion Behavior of Titanium and Some of its Alloys for Biomedical Applications; Structural Characteristics of Ductile Iron at Different Rare Earth Contribution from a Magnesium Ferrosilicon Alloy; Correlation between Microstructure and Magnetic Properties on MnZn Ferrite with Bi <sub>2</sub> O <sub>3</sub> Increasing Addition Composite Powder and Compacts of Iron/Iron Oxide Type Produced by Mechanosynthesis and Reactive Sintering Crystallization of Ni-Cr-Si-B and Ni-Cr-Fe-Si-B Amorphous Alloys; Implant Surface Finishing Influence on Tissue-Implant Anchoring; Mechanical Behavior of Fe <sub>60</sub> Co <sub>14</sub> Ga <sub>2</sub> P <sub>10</sub> B <sub>5</sub> Si <sub>3</sub> Al <sub>3</sub> C <sub>3</sub> Bulk Metallic Glass; The Influence of Sulphur and Oxigen Additions in Mg-Treated Iron on the Cooling Curves Parameters; Research on the Influence of Pelleting Mixture Components on Chemical Components and Pellets Structure; Chapter 2: Materials Characterization

Joint Quality Assessment of Three Different Laser Welded Dental Alloys; Description of Degradation Process of Rubberized Lean Concrete; Influence of Cooling Rate on the Structural Characteristics of Ca and Rare Earth Inoculated, Low-S Grey Cast Iron; Influence of the Si-Content on the High Temperature Oxidation Behaviour of NiCrBSi-Coatings; A Study on Metal-Ceramic Thermal Expansion Compatibility; An Evaluation of Sn-Cu-Ga and Sn-Cu-Ag Solder Alloys for Applications within the Electronics Industry; Analysis of Hazards Identified within the Premises of the Electric Steelworks, to Carry out the Risk Assessment; Computation of HAZ Hardness for Low Alloyed Welded Steels Using Five-Parameter Logistic Function; Damage Detection in Flux Cored Wire Welded Structures by Using Vibration Testing; Determination of Flexural Properties of Rigid PUR Foams Using Digital Image Correlation; Effects of Silicon Carbide Proportion and Artificial Aging Parameters on Microstructure and Hardness of Al-Cu/SiCp Composites; Experimental and Numerical Investigations of TBC Behaviour after Aging, Subjected to Tension and Bending; Determination of Mechanical Properties of Chondrocytes in Articular Cartilage Using Atomic Force Microscopy; Heat Transfer in Composites Subjected to Temperature Variations; Influence of Milling Time on the Homogeneity of the Al<sub>2</sub>O<sub>3</sub>/Ni Composite Powders Obtained by Mechanical Milling; Measurement of Young's Modulus and Shear Modulus of Some Structures Welded Using Flux Cored Wire by Vibration Tests; Mechanical Effects of Simulated Pressure and Temperature Conditions on Porcelain Dental Bridges

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Sommario/riassunto

Collection of selected, peer reviewed papers from the the Fifth International Conference on Advanced Materials and Structures (AMS 2013), 24-25 October 2013, Timisoara, Romania. The 56 papers are grouped as follows: Chapter 1: Advanced Materials, Chapter 2: Materials Characterization, Chapter 3: Modern Processing Techniques

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