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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 ₂ O ₃ 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 ₆₀ Co ₁₄ Ga ₂ P ₁₀ B ₅ Si ₃ Al ₃ C ₃ Bulk Metallic Glass; The Influence of Sulphur and Oxygen 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 Al₂O₃/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

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
