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Nota di contenuto	Advanced Materials and Processes IV; Preface, Conference Organization and Committee; Table of Contents; Chapter 1: Nano Materials Science and Technology; Absorption Spectrum of Carbon Nanotubes; Cu-Ni Alloy Nanoparticles Supported on Multiwalled Carbon Nanotubes Composites with Pre-Treated Multiwalled Carbon; Effect of Electrospinning Process on Electrospun Chlorinated Polyvinyl Chloride (CPVC) Nanofibers; Enhanced H ₂ Sensing of SnO ₂ Nanowires Functionalized with Pt and Pd Catalyst Nanoparticles; Influence of Vacuum on Nano-Diamond Cathode Field Emission Characteristics Piezoelectric Effect of Quaic-Nanotetrapods ZnO Nanostructure Preparation and Characterization of the Amidoxime-Modified Polyacrylonitrile (PAN-Amidoxime) Nanofibre Composite; Size Effects of Heat Conduction for Silicon Nanograins; Viscosity of Al ₂ O ₃ Nanoparticles Dispersed in Ethylene Glycol; Mechanical Properties of the Honeycomb Nanoporous Membranes; Bandgap Determination of Cubic Rocksalt AlN Film from Experimental and Theoretical Investigations; Chapter 2: Metals, Alloys and Technology; Comparative Analysis of Crack Growth Characteristics Based on Virtual Crack Closure

Technique

Effect of Iron Content on the Strength and Conductivity of Cu-Fe In Situ Composite; Gas Sealing Performance Study of Metal W Shaped Seal Ring; Mechanical Property Comparison Analysis of Two Kinds of Shape Memory Alloy Patella Claws Based on Finite Element Method; Mechanics Analysis of Protective Casing and Splicing Sleeve; Research on the Mechanical Properties and Corrosion Resistance of Mg-RE and Mg-Zn-Cu Alloys; Study on Clinching of Titanium Alloy; The Electrochemical Behaviors of HSn70-1A Brass in Polluted Freshwater
The Red Electroluminescence of Iridium Complex at Different Concentrations and Host Materials; Influence of Heat Treatment on Microstructure and Mechanical Properties of Die-Cast AZ91D Alloy with RE Elements; Research of Anti-Extrusion Process for Cylinder of Spray-Formed Ultra-High Strength Aluminum Alloy; Deformation Behavior of Mg-7Gd-5Y-1Nd-0.5Zr Alloy during Hot Compression; Experiment on Direct Smelting and Alloying Process between High-Carbon Ferrochrome and Molybdenum Oxide; Production of Fine-Grained and Weak Texture Structure in an Mg-7Gd-5Y-1Nd-0.5Zr Alloy by Multi-Axial Forging
Research on Crack Region's Electrochemical Corrosion Performance in Hot-Dipping Galvanizing; Study on Hydrogen Content of Solid Industrial Pure Aluminum; Study on the Creep Properties and Microstructures of EW75 Alloy; Study on Tribological Performance of Al₂O₃ Particle Reinforced the Al-Sn Bearing Alloy; Research on Fatigue Notch Factor of Aluminum Corrosion Pits; The Investigation of Dynamic Stress Equilibrium of Compact Tension Specimen Based on Hopkinson Tension Bar Device; The Phase Change Study of Titanium Concentrate during Heat Treatment; Chapter 3: Steel Materials and Applications
Control Model of Steel Ladle Base on Overlap Time among the Different Casts

Sommario/riassunto

Collection of selected, peer reviewed papers from the 4 th International Conference on Advanced Design and Manufacturing Engineering (ADME 2014), July 26-27, 2014, Hangzhou, China. The 43 papers are grouped as follows: Chapter 1: Nano Materials Science and Technology, Chapter 2: Metals, Alloys and Technology, Chapter 3: Steel Materials and Applications, Chapter 4: Resin, Rubber and Polymer Materials, Chapter 5: Optical/Electrical/Magnetic Materials and Technology, Chapter 6: Ceramic Materials and Technologies, Chapter 7: Composite Research and Applications, Chapter 8: Fiber Materials and Texti