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Collana	Advanced materials research, , 1022-6680 ; ; v. 628
Altri autori (Persone)	XuDayun
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Manufacturing Engineering and Technology for Manufacturing Growth; Preface and Organizing Committee; Table of Contents; Chapter 1: Material Engineering and Technology; Influences of Solution Treatment, Deformation Strain, and Nanometric Al ₂ O ₃ Particulate on Dry Wear Properties for Nanometric Al ₂ O ₃ Particulate Reinforced Al Alloy Matrix Composites Manufactured by Casting; The Flow Stress Behavior and Constitutive Equation of Nanometric Al ₂ O ₃ Particulate Reinforced Al Alloy Matrix Composites; Metal Nanoparticle Production by Anode Jet of Argon-Hydrogen DC Arc Development of Natural Fiber Reinforced Laminated Hybrid Composites Characterization of Chemically Synthesized Ag ₂ Se Nanowires via Anodic Alumina Membrane as Template; Ultrafine Glass Fibers Produced by Centrifugal-Spinneret-Blow Process; Influence of Density on the Thermal Conductivity of Fiberglass Felt; Cemented Carbides for Machining of Heat-Resistant Materials; Controlled Patterning and Dimensional Control of Suspended Carbon Nanofibers; Research on Mechanical Properties of Nano-Concrete; Chapter 2: Industrial Manufacturing Technology, Analysis and Modelling Modern Office Furniture Design Based on Ergonomics Multi-Role-Based

Employee Performance Appraisal Method for Manufacturing Enterprise; Study on the Reliability Problem of MEMS Fuse Mechanism; Two-Component Injection Molding of Molded Interconnect Devices; Research on Laser Micro Machining Polystyrene Material; Dynamic Model for Product Innovation Alliance Oriented to Competitive Advantage; Dynamic Stochastic Modeling in Single Unit Job Lot Fabrication of Vehicle Components Assembly Test; Performance of Ultrasonic Electro-Discharge Machining on Electrically Conductive PCD
The Optimization Design for Protection Plate Structure of Honing Measuring Head
SLP-Based Layout Design for a Reclaimed Rubber Factory; Chapter 3: Metal, Steel Manufacturing Technology and Engineering; Stress Analysis on a Weld Seam between Spiral Case and Penstock; FEM Simulation of Metal Drawing Parts Forming Based on the ABAQUS Software; Modeling Milling Process Using Artificial Neural Network; Characterization of Al-Zn-Sn as Sacrificial Anodes to Protect Underground Oil Pipelines in Al-Hilla Regional
A Study of Cutting Parameters Optimization in High-Speed Milling GH4169 with TiAlN Coated Carbide Tool
Effect of Applying Air Pressure on Gas Porosity in Lost Foam Casting of Al-Si Alloy; Study on the Data-Bases for Fire Engineering Design of Structural Steels Members; Perpendicular Axis Magnetorheological Finishing of Spherical Optics; The New Effective Methodology for Prediction and Optimization of Distortion of Large Welded Structures; Research on Welding Repair for Tee Joint Crack of Subcritical Power Station Boiler Platen Superheater Header
Thermal Behavior of Cast Steel Industrially Produced

Sommario/riassunto

The collection includes selected, peer-reviewed papers from the 2012 International Conference on Manufacturing Engineering and Technology for Manufacturing Growth (METMG 2012) held November 1-2, 2012 in San Diego, USA. The 89 papers are grouped as follows: Chapter 1: Material Engineering and Technology, Chapter 2: Industrial Manufacturing Technology, Analysis and Modelling, Chapter 3: Metal, Steel Manufacturing Technology and Engineering, Chapter 4: Technology of Production Management, Design, Automation and Information Technology in Manufacturing, Chapter 5: Mechanical, Equipment and Instrume
