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Nota di contenuto	Applied Mechanics, Materials, Industry and Manufacturing Engineering; Preface and Committees; Table of Contents; Chapter 1: Material Research in Mechanical Engineering, Industry and Manufacturing Engineering; Research on Propagation Characteristics of Stress Waves in Laser Shock Processing for DD6 Single Crystal Alloy Materials; Predicting the End Temperature of Molten Steel Using CBR; Influence of Surface Modification on Si3N4 Powder Fluidity; Peparation and Magnetic Propriety of Carbon-Coated Iron Magnetic Nanoparticles by Starch Coating Method The Reaction Kinetics of Aluminum and IsopropanolStudy on Critical Load Position and Cracking in Asphalt Layer of Continuously Reinforced Concrete Composite Asphalt Pavement; Py-GC-MS Analysis on Biomass Energy Components from Wood Extractives of Eucalyptus urophydis under High Temperature; Study on Corrosion Inhibition Performance of

PASP Composite on A3 Carbon Steel in Seawater; Affection of Manufacture Parameters and Mixture Material on Plastic Alloy Bearings; Thermal Study on the Grinding Special-Shaped Surface of Granite Material
 Ferroelectric and Optical Properties of BST/BZT/BST Sandwich Structure Thin Films Prepared by RF Sputtering
 Effect of Wood Extractives on Burning Time of Fuel for Add-On Bioenergy; Orthogonal Analysis on Hardness of Nickel/Graphite Sealing Coating; Effect of Laser Processing on Electroless Copper Deposition on Modified Plastic; Influences of Process Parameters on the Forming of YAG Phase; Preparation and ESR Properties of Silicon Nitride Nanowires; Gearbox Non-Ferrous Metal Bearing Wear Condition Monitoring Based on Oil Analysis
 Solar Shading Performance of Different Louver Shading Materials in Hot Summer and Cold Winter Zone
 Research on Material Selection Standard of Graded Crushed Stone Base Course for Municipal Road; A Comparative Study on Building Energy Performance between Movable and Fixed Shading Materials; Evaluation on Safety of Internal Bamboo and Wooden Biomaterials for Food; Effect of same Insulation Materials on Energy-Saving Potential of Different Buildings; Application of Fluorescent Aerosols to Verifying the Leakage of Protective Clothing by Image Processing
 Healing of Cracked Concrete by *Sporosarcina pasteurii* Mediated Carbonate Deposition
 Modelling of Chloride Diffusion into Surface-Biodeposited Concrete; Treatment of the Lead Waste Water with Electrochemical Process; Low-Temperature Synthesis and Characterization of Single-Phase BiFeO₃ Nano-Crystallites; Electron Transport of Boron Nitride Nanoribbons Materials; The Structure and Fluid Flow Analysis for a New SXSH Static Mixer; The Application Research of Biological Materials in Meniscus Injuries; Preparation Process of Antioxidation Coating of Prebaked Carbon Anode Steel Claw
 Study on Pile-Soil Interaction during Pile Sinking and Drivability of Pile in Offshore Platform

Sommario/riassunto

These are the proceedings of the 2nd International Conference on Mechanical Engineering, Industry and Manufacturing Engineering (MEIME2012), held on the 23rd and 24th June, 2012, in Hefei, China. Readers will find herein many original ideas and new visual angles on aspects of Applied Mechanics and Materials in Mechanical Engineering, Industry and Manufacturing Engineering. Review from Book News Inc.: Peer-reviewed papers from a June 2012 conference held in China are gathered here, in sections on materials research, mechanics, and dynamic systems for mechanical engineering, industry, and manufa
