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Nota di contenuto	Advanced Research on Industry, Information System and Material Engineering IV; Preface and Committee; Table of Contents; Chapter 1: Materials Science, Processing and Application; Lamb-Wave-Based Damage Identification in Laminated Composite Plates; Eutecticum Morphology in Al-Si Alloys; Research on Protective Materials with Analysis of the Influence of Bulletproof Helmet Surface Curve on Bulletproof Performance; The Microorganism Mechanism: Test Evaluating of Microbial De-Oiling Efficiency; The Synthesis and Photocatalytic Properties of ZnO-SnO2 Nanorods Using Bamboo Charcoal as the Template Austenite Recrystallization Model of High Ti Microalloyed SteelsInvestigation on Characteristics of Ni-Base Self-Fluxing Alloy Powders; Experimental Research on Mechanical Properties of SPS Composite Plate; Overview of Research Methods of Microscopic Pore Structure with Material Properties in Reservoir Rocks; Application and Realization of Liquid Automatic Drip System with Metallographic

Polishing; Comparison Analysis on the Mechanical Properties of HSC and NSC after the Action of High Temperatures; Studies on Theory with Experiments of Materials Testing Technology Based on Teaching
The Method and Evaluation of Biological Materials to Functional Reconstruction of Ligament Defects in Exercise-Induced Ligament InjuryResearch on Biochemical Materials with Optimization of Microwave Extraction Process by Response Surface Methodology of Flavonoids from Platycarya strobi lacea sieb.et zucc.; Chapter 2: Mechanical Engineering and Applied Mechanics; Design on Operation Panel of Numerical Control Machine Tools; FEA on Ramp Plate of Scraper Conveyor Based on ABAQUS; Application of Steer-by-Wire Technologies on Wheel Loader
Research on Mechanical Manufacturing with Posture Optimization of Installation of the Bolts in Large Component AssemblyResearch and Application of Parametric Design in Traditional Plug-Flow Aeration Tank with Drawing Methods; Research on the Elevator System with Fault Diagnosis Method Based on Fuzzy Fault Tree; The Advances of the Prediction of the Performance and Reliability of Rolling Bearings with Poor Information; The Review of Nonlinear Dynamic Characteristics of Rolling Bearing Performances Based on Poor Information Theory
Analysis on the Effects of Atmospheric Turbulence on Line-of-Sight Ultraviolet Communication System PerformanceMechanics Analysis of Long Jump by Means of the Theory of Artificial Neural Networks; Research on Flow Sensor and the Pressure Sensor with Digital Asthma Diagnosis Technology; Aerodynamic Performance Evaluation with a New Method for Darrieus Wind Turbine; Research on Stress and Load with the Effect of Number of Teeth Planetary Gears Matching; Research on Wind Turbine Blade Loads and Dynamics Factors; Research on a Multi-Axis Wrist Force Sensor with Double Bending Beams
Research of Control Cooling Heat Treatment Process in the Ductile Iron Gear

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 4th International Conference on Industry, Information System and Material Engineering (IISME2014), July 26-27, 2014, Nanjing, China. The 120 papers are grouped as follows: Chapter 1: Materials Science, Processing and Application, Chapter 2: Mechanical Engineering and Applied Mechanics, Chapter 3: Energy, Power and Heat Engineering, Chapter 4: Construction and Civil Engineering, Chapter 5: Environmental Engineering, Chapter 6: Robotics, Control and Automation, Chapter 7: Applied Information Technologies, Data Processing and Computationa