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Collana	Applied mechanics and materials ; ; 422
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Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Information Engineering for Mechanics and Materials Research; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Material Science and Technologies; The Cause of the Problems and Solving Measures in Molten Iron Pretreatment; Analysis of Magnetic Mark Display in Magnetic Particle Testing; Determination of Morphology and Mechanical Properties of Polyhedral Oligomeric Silsequioxane (POSS) Based on Poly(vinylidene fluoride) Matrix; Computational Modelling of a Particulate Material under Blast Loading; Study on Thermal Degradation of Phenolic Resin Research on Quantitative Metallographic Analysis for Metallic Materials of Power GridThe Effects of FGD Gypsum on the Performance of Cement; Polar Probe Study of Water-Organic Solvent-Macromolecule Emulsifier Aggregates Structure; The Effect of FGD Gypsum Heat Treatment Process on Properties of Cement; Effect of Trace Element Strontium on Serum Indexes in the Blood of Rats with Type I Diabetic; Effect of BaTiO3 Addition on Mechanical Properties of BaTiO3/Al2O3 Composite; The Insulation Sheath Detection Based on X-Ray

Properties of Annealed Indium Tin Tantalum Oxide Films Prepared by Reactive Magnetron Sputtering
The Research and Development of Hot Stamping Forming Technology and Production Line in View of High Strength Steel Plate; Chapter 2: Research and Designing in Mechanical Engineering; The Transformer Fault Diagnosis Method Based on Improved Support Vector Machine; The Applied Research on Improved Design of Product Forms Based on Reverse Engineering Technology; Research on Quick Salting Duck Egg with Pulsed Pressure and Water Cycle Technology
The Application of Contact Element in Finite Element Analysis
Study of Piezoelectric Vibration Damping Based on the SSDI Technology for Aircraft Panels; Design of a New Normally Closed Type Safety Valves for Gas; A Study of Solar Panel Chimney for House Ventilation; Angular Acceleration Measurement Experiment Study of Stepping Motor on Single Clap Operation; Optimal Launch Vehicle Configuration from Existing Solid Rocket Motors Using Genetic Algorithm; The 3D Parametric Modeling and Simulation of SL1126 I.C.Engine; Designation of a Grating Torque Measurement Device Based on FPGA and MCU
Present Situation and Development Review of Torque Measurement
Compatibility Problem of TN and IT System in the Same Building; Design of Milk Packaging Line Based on FluidSIM-P; Chapter 3: Control and Intelligent Automation; Design of Virtual Assembly Sequence Planning System Based on Double Bases Cooperation Mechanism; Detection of Intima-Media Thickness in Common Carotid Artery on Ultrasound Image; The Application of Augmented Reality in Mobile Learning Based on Cloud Computing; The Study of Access Mechanism for the Security of Linux
Applied to Medical Monitoring of the Wireless Sensor Network Design and Research

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 International Conference on Information Engineering for Mechanics and Materials (ICIMM 2013), July 5-7, 2013, Hangzhou, China. The 58 papers are grouped as follows: Chapter 1: Material Science and Technologies; Chapter 2: Research and Designing in Mechanical Engineering; Chapter 3: Control and Intelligent Automation; Chapter 4: Applied Computational Procedures and Information Technologies; Chapter 5: Related Topics. The 58 papers cover material science and technologies, research and design in mechanical engineering, control and intelli
