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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Advanced Research on Information Science, Automation and Material System IV; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Material Science, Processing and Technologies; The Composition Cement Binder with the Use of the Synthesized Aluminosilicates; Metallogenic Features Modeling and Deep Mineral Exploration of Laochang Ore Field in Ge Jiu; Projection Method for Material Selection Problem with Interval Numbers; Grinding Wheel Abrasive in Material Selection Using Fuzzy Grey Relation Analysis Method Polyaniline Composites Using Three Different Acid as a Secondary Dopant: Preparation and Properties Structure of Smart Materials and its Application in Construction Industry; The Study on Mechanical Properties of POSS Hybrid PVA Hydrogels; The Swelling Behavior of Water-Soluble POSS Hybrid PNIPA Nanocomposite Hydrogels; The Mechanical Properties of Inorganic/Organic Co-Crosslinked PDMAEMA Hydrogels; Research on Strain Gauge Protecting-Process to

Measurement Data Accuracy of Composite Material Structure; The Mould Flux Viscosity Designing of High Carbon Steel for Thin Slab Continuous Casting
The Mould Flux Crystallization Properties Designing of High Carbon Steel for Thin Slab Continuous Casting
Effects of Impurities on Silicon Dioxide Dielectric Properties; Unfolding Method of Non-Developable Surface for Sheet-Metal Design; The Clinical Application and Evaluation of Artificial Cruciate Ligament Materials for Knee Exercise Injury; Application and Realization of Digitization of Traditional Metallographic Microscope; Characteristics of Electron Structure and 4f Orbital of Rare Earths and Their Reinforcement of Wastewater Degradation
Applied Technology in Using HPLC for Determining Aflatoxin Contents in Peanuts
Chapter 2: Applied Mechanics, Mechanical Engineering, Electrical and Electronic Engineering; Simulation on the Behavior of Individual Vehicles with Influence Evaluation of Flow Rate and Speed Limits on Freeway; Effect of Jet Hole Size on Drag Reduction
Performance of Bionic Jet Surface; Optimization of Horizontal Plate Fin Heat Sink in Natural Convection for Electronics Cooling by Simulated Annealing Algorithm; Error Analysis of a Non-Contact Parallel Plane Sensor Based on Monte Carlo Method
The Leakage Causes and Improving Measures of CB Series of Gear Oil Pump Based on Mechanical Mechanics
Design and Implementation of AES Key Generator Based on FPGA; Study on Double Long-Primary Short-Secondary Linear Induction Motor for Magnetic Elevator; Experimental Hydro- and Aerodynamics Research on Arrow; Analysis for Nonlinear Aeroelasticity on Structure and its Current Progress; Simulation on Magnetorheological Suspension Structure of Automotive; The Formation of Temperature Controller by PSoC; Research on the Work Space Optimization of the Six Bar Parallel Machine Tool
The Design of Passive RFID Reader System Based on MF RC500

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 4 th International Conference on Information Science, Automation and Material System (ISAM 2014), August 23-24, 2014, Wuhan, China. The 92 papers are grouped as follows: Chapter 1: Material Science, Processing and Technologies, Chapter 2: Applied Mechanics, Mechanical Engineering, Electrical and Electronic Engineering, Chapter 3: Applied Information Technologies, Network, Data Processing and Computational Methods
