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Nota di contenuto	Intro -- Advanced Research on Automation, Communication, Architectonics and Materials III -- Preface and Committee -- Table of Contents -- Chapter 1: Research on Material Science, Processing and Technologies -- Research on Characteristics of Plastic Materials and Plastic Optical Fiber -- Transport Property Analysis of a Microencapsulated Phase Change Material Suspension with Material Properties -- Preparation and Characterization of Calcium Sulfate Spherical Particles for Dentistry -- Ab Initio Calculations of a Refractory Ceramic (-Ge ₃ N ₄): A Computer Simulation -- Ab Initio Study of the Ge ₃ N ₄ Semiconductor Materials in its Cubic Phase: A Computer Simulation -- Study on the Preparation of Strontium-Doped Hydroxyapatite Whisker -- Effect of Adding Micro Amount Rare Earth Element Er on Mechanical Property of Bi ₅ Sb ₈ Sn Solder Alloy -- Research on the Dimpling in Multi-Point Thermoforming of Polycarbonate Sheet -- Porous Calcium Sulfate/Hydroxyapatite Whiskers Scaffold for Bone Tissue Engineering -- The Probability Distribution Modeling of Surface Heat Flux Density on Metal Material -- Sonication Parameters Analysis of MWCNTs Monodispersion in Aqueous Solution of Triton X-100 -- Calculation of Ionization Potential and Electron Affinity of the Optoelectronic Material Iridium (III) Metal Complexes Containing the 2-phenyl Pyridine-Type Ligands -- Ionic Liquid Assisted Dispersion of Reduced Graphene Oxide in Epoxy

Composites with Improved Mechanical Properties -- Biological Performances Investigation of KGM/SH Fiber Membranes -- Effect of Konjac Glucomannan Content on the Structure and Properties of Sodium Hyaluronate/Chitosan/Konjac Glucomannan Composite Films -- Tensile Test of Composite Laminates and Specimen's Improvement -- Surface Properties of the Ta and Ag Dual-Ion-Implanted Ti6Al4V Alloy.

Study on the Environmental Materials with the Enzyme-Producing Conditions of a PCBs-Degrading Halophilic Bacterium -- Effect of Triethanolamine Addition in Alkaline Bath on the Electroplating Behavior, Composition and Corrosion Resistance of Zn-Ni Alloy Coatings -- Effect of Cl⁻ Content, pH Value and CO₂ on Electrochemical Corrosion Features of Cr15 Super Martensitic Stainless Steel -- Fracture Failure Mechanism Analysis of a Type of Tracklayer Gearbox Casing Based on Mechanical Mechanics and Material Properties -- Parameters Setting Impact Analysis of Composite Cockpit Finite Element Analysis Based on Properties of Composite Materials -- Chapter 2: Building Materials, Structures and Technologies of Construction -- The Dangerous Rock Mass Deformation Analysis with Application of Kalman Filter Method Based on Material Properties and AR Model -- Research on Design of Intelligent Building Internal Structure Based on Building Materials -- Research on Construction Materials with Innovation Strategies for Regional Architecture Renovation -- Combined Application of Three Nondestructive Testing Methods in Simulation Test of a Large Concrete-Filled Steel Tube -- Mechanical Properties Research of Steel-Concrete Composite Structure's Connector -- Construction of New Energy-Saving Building Materials Based on Formal Concept Analysis Methods -- Research of Green Building Materials and Engineering System Development Based on Wireless Sensor Zigbee Technology -- The Novel Model of Building and Energy Engineering with New Building Materials Based on IPv6 Technology -- Research on Building Materials and Engineering System Based on Embedded System -- Effect of Raw Material's Properties to HMA's Pavement Performance -- Development of Novel Building Materials and Mining System Based on Improved Radio Frequency Identification Technology.

Preparation of Reactive Powder Concrete Having High Volume of Phosphorous Slag Powder and Silica Fume -- Chapter 3: General Mechanical Engineering -- Mechanics Research with Prediction on the Fatigue Life of the Five-Cylinder Emulsion Pump Crankshaft -- Blank Unfolding Calculation for Blades of Stamping Welded Hydrodynamic Torque Converter -- Numerical Computation and Analysis of Particle Trace Based on Aerodynamic in Heavy Medium Cyclone -- Mechanics Analysis with Different Open Lid Time on Shockwaves in Launch Box -- Study on Mechanical Automation with Cool-Starting Capacity of the Battery for Vehicles -- Study on Mechanical Automation with Analytic Method Utilization of Motor Car Engine Failure Diagnosis Fault Tree -- Study on Mechanical Automation with Noise Characteristic and Control of Blower Room -- Study on Automation Control with Noise Control of Oil Sucking Machine -- Study on Mechanical Automation with Design of Mechanism Transmission System for Automobile Transmission Test Platform -- Research on Mechanical Automation with Vehicle's Reconstruction Analysis Model of Offset Collision Accidents -- Optimized Design of Energy Absorption Construction of ROPS -- Chapter 4: Research on Automation, Communication and Information Technologies -- Research on Mechanical Automation with Analysis of Modeling Train Collision Accident Based on Stochastic Petri Net -- Research on Mechanical Automation with Analysis of Mixed Train

Scheduling Problem on the High-Speed Rail Line -- Study on Mechanical Automation with Detection Technology in Central Air-Conditioning -- Study on Mechanical Automation with Simulation of Wind Energy Conversion System Based on Sliding Mode Control -- Automatic Anti-Skidding System Optimization Design for Military Vehicles on Ice and Snow Road -- Study on Automation Learning System with Electronic Materials.

Study on Automation Control with Water Quality Monitoring System Based on GPRS Technology -- Study on Communication Automation with Embedded Real Time Signal Acquisition and Process System Based on PC104 -- Study on Mechanical Automation with Design of Electric Control System of Automobile Transmission Assembly Test Platform -- Study on Electric Automation with Reactive Optimization Based on TSGA in Power System -- Study on Mechanical Automation with X-Ray Power Conveyor Belt Nondestructive Detection System Design -- The Automation of Spillway Gate Machine of Hydropower Power Station -- The Design and Application of an Improved Word Segmentation Algorithm Based on PATRICIA Tree Dictionary in Communication Material -- The Research on Image Semantic Correlation Metrics Based on Word-Net in Communication Material -- The Application of Intelligent Industrial Robotic Control System Based on PLC in Mechanical Automation -- Research on Communication Automation with Design and Implementation of FTP Based on Serv-U -- Research on Tension Control with Fuzzy PID Control in the Low Relaxation PC Strand Wire Based on Mechanical Automation -- Study on Mechanical Automation with Improvement of Battery Test System for Electric Vehicle -- Chapter 5: Other Topics -- A Brief Study on Electronic Materials with Automation System in Autonomous Learning with Electronic Materials -- Study on Materials Selection and Construction of Digital Language Lab Based on Properties of Electronic Materials -- Study on Magnetic Materials with Numerical Calculation of Geoelectromagnetic Field in Middle-Low Latitude Region -- Implementation of Fuzzy Adaptive PID in Thickener Flocculation Dosing Control System Based on Properties of Mining Materials -- Keywords Index -- Authors Index.

Sommario/riassunto

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