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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Advanced Research on Mechanical and Electronic Information Engineering II; Preface, Committee and Sponsors; Table of Contents; Chapter 1: Materials Science, Processing and Application; Experiment Study on Mixed Combustion of Biomass and Coal; TEM Specimen Preparation of GaN Thin Films; Study of Material Properties for the Multielement in Dipsacus Asper Wall - From Panzhihu with Application of Microwave Assisted Digestion and the ICP-AES Method; Study of Material Properties for Microwave Assisted Digestion of Fallopia Multiflora for Multielement Analysis by ICP-AES Determination of Metal Elements in Maca from Different Areas by Inductively Coupled Plasma-Atomic Emission Spectrometry Research on Material Properties of Engineering Materials with Construct Disaster Preparedness of the Four-Dimensional Space in Hilly Cities' Communities; The Practical Research of Engineering Materials for the Temporary House after Earthquake; Application of New Materials in the Field of Sports Apparel; Experimental Study on Dilution Ratio of Laser Cladding of Al ₂ O ₃ -13 % TiO ₂ Ceramic Coating

Thermal Barrier Effects Comparison of Plasma-Sprayed and Laser-Remelted Al₂O₃-13 % TiO₂ Ceramic Coatings; Beneficiation of Iron with Magnetic Separators; Decolorization of Limonium bicolor kunze (Bge.) Polysaccharides by Resins; Influences of Turning Parameters on Surface Roughness in Ultra-Precision Diamond Turning Processing Technology; Chapter 2: Applied Mechanics, Mechanical and Electronic Engineering Research; Finite Element Analysis of Inclined Double-Roller Enveloping Hourglass Worm Gearing Based on Workbench; Research on Forward DC-DC Converter with High Power

The Influence of Electric Vehicles Charging and Discharging on Power Grid; Design of an Overvoltage Online Monitoring Device Based on Optical Fiber Voltage Sensor; Fault Diagnosis of Wind Turbines Based on Improved Neural Network; Study on Mechanical Equipments and Electronic Resources for Improving Interpreting Abilities; Data Processing for Dynamic Consequences of Prey Refuge in a Predator-Prey System with Stage Structure and Time Delay; Study on Impact Properties of New Hydro-Pneumatic Buffer for a Metro Vehicle

Numerical Calculation on the Influence of Missile Exhaust Plume with Mechanical Properties to the Double-Launch Box; Kinematics Analysis of Instep Shot in Different Heights; The Study of the Constant Force Polishing by the Multi-Robot; Study on Design Method of Clutch Pressure Plate Based on Thermal Deformation; A Method to Predict Stress Intensity Factor of Surface Crack at Weld Toe of Offshore Structures under Wave Loads; A Numerical Study of the Airfoil Aerodynamic Characteristics with Porous Surface; The Study of Aeroelastic Reduced-Order Model Based on CFD/CSD Method and its Application

Research on Car-Rail Coupling Dynamics of Ascending Hatchway of Elevator Safety Device Test Tower

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 2nd International Conference on Mechanical and Electronic Engineering (ICMEE 2014), June 21-22, 2014, Wuhan, China. The 60 papers are grouped as follows: Chapter 1: Materials Science, Processing and Application, Chapter 2: Applied Mechanics, Mechanical and Electronic Engineering Research, Chapter 3: Environmental Research and Energy Engineering, Chapter 4: Computation and Information Technologies
