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Nota di contenuto	Process Equipment, Mechatronics Engineering and Material Science II; Preface, Committees and Sponsors; Table of Contents; Chapter 1:

Process Equipment; Flow and Separation Performance of Supersonic Gas Separator; The Fatigue Life Analysis of Prestressed Wire-Wound Super-High Pressure Vessel Based on ANSYS; Research on the Sealing Structure of Prestressed Wire-Wound Ultra-High Pressure Vessel; Flow Characteristic and Optimal Design of Rectangularly Tapered Header Based on CFD; Analysis of Static Bending Rigidity with Car Body Lightweight Design for Certain Model of Electric Vehicle
 Research on Vibration Characteristic of Flotation Machine Lower Shaft
 Performance Comparison of Different Impellers in 6.5m Pulp Conditioner; The Effect of Operating Parameters on Flotation Dynamics of BF-40 Flotation Machine; Durability Test Station Structure Design and Optimization; Dynamic Analysis Subject to Displacement Harmonic Excitation of Liquid Storage Tank with 20000m³; Piston Optimization Design of Linear Compressor for Refrigerator; Test and Analysis on the Heat Transfer Coefficient of the Mixed Plate Heat Exchanger
 Research on Simulation of Marine Refrigeration System Based on Simulink
 Optimization of Trapezoidal Runner in Plastic Molding Based on MATLAB; Research of Modular Design in Disassembly; Application of New Materials in Water Hydraulic Pump; Design of Ultrasonic Cutting Bench for Automatic Tape Laying Machine; A Weapon System Reliability Allocation Based on Direct Searching Method; Modeling and Analysis of Key Geometric Error for Gravity Deformation of Heavy-Duty CNC Machine Tool; Chapter 2: Power Engineering; An Overview of Micro-Grid; The Overview of Smart Grid
 The Overview of the Development of Wind Energy
 An Overview of Active Power Filter; Technological Progress in the Material Research & Development for Gen-IV SCWR Advanced Reactors; Chapter 3: Technical Measurements and Diagnosis; Research Effect of Four-Quadrant Detector Detection Spot in Atmospheric Turbulence; An Improved SVM Based on Feature Extension and Feature Selection; A Review of Residual Life Prediction for Remanufacturing of Machine Tool; Development and Application of Composite Submarine Cable Online Monitoring System
 Monitoring Corrosion Fatigue Damage Process of LY12CZ Aluminum Alloy with and without Coating by Acoustic Emission
 The Method of On-Line Detection of Antiicing Additive Concentration in Jet Fuel; A Design of Image Acquisition System Based on FPGA and USB2.0; The Fault Analysis and Simulation of Vehicle Hydraulic Shift System Based on AMESim; Study on Universal Intelligent Monitoring System in Heavy Machinery Based on CANopen Protocol; Design and Implementation of Power Grid Dispatching Fault Diagnosis Knowledge Base; Chapter 4: Mechatronics, Control and Automation
 Structural Optimization of Three Translational Parallel Sorting Robot

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2nd International Conference on Process Equipment, Mechatronics Engineering and Material Science (PEME 2014), June 28-29, 2014, Wuhan, China. The 77 papers are grouped as follows: Chapter 1: Process Equipment, Chapter 2: Power Engineering, Chapter 3: Technical Measurements and Diagnosis, Chapter 4: Mechatronics, Control and Automation, Chapter 5: Material Engineering and Technologies of Material Processing, Chapter 6: Communication and Information Technologies The 77 papers cover process equipment; power engineering; technical measures and
