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Collana	Applied Mechanics and Materials, , 1662-7482 ; ; Volume 740
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Mechanical, Information and Industrial Engineering; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Materials Science and Processing Technologies; KNN-BF Lead-Free Piezoelectric Ceramics Synthesized by Sol-Gel Method; Preparation Process of KNN-0.008BF Lead-Free Piezoelectric Ceramics; Research on Expanded Graphite/Nitrate High-Temperature Composite Phase Change Materials; Study on Properties of EPS Insulation Mortar; The Performance of Cement-Based Self-Leveling Mortars Affected by Mineral Admixtures Morphology Evolution and Mechanical Properties of HNBR Composites Reinforced by HZMMA/Carbon Black during Curing Process Dielectric Properties of Mn, Co, and Ni-Doped LaSrFeO3 Films with Different Annealing Atmosphere; Effect of Grain Size on Erosion Wear of B4C/TiC/Al2O3 Ceramic Nozzles; Effect of Heat Treatment on Microstructure and Mechanical Properties of Cr31 Hypereutectic Cast Iron; Influence of Polymer on Properties of Sulphoaluminate Cement Waterproof Mortar; Study on the Performance on Some Admixture of Sulphoaluminate Cement Waterproof Mortar Synthesis of Lignin-Based Epoxy Resin in Ionic Liquid [BMIm]ClFE

Modeling of the Inertia Friction Welding with a Modified Friction Law; Simulation of Mass Transfer in Anode Flow Field of a Passive Direct Methanol Fuel Cell; Chapter 2: General Mechanical Engineering, Applied Mechanics and Dynamics; Analysis and Calculation of a Gravity Turbine Torque, Speed; Contact between Logarithmic Crowned Teeth of Spur Gear Transmission; Remanufacturing Technology in Application of Imported Electro-Discharge Texturing Roll Machine; Design and Simulation of Hybrid Braking System Collaborative ABS Application on Programming and Simulation of the Fan Blade NC Machining Based on UGDesign and Implementation of Measurement Instrument for Non-Cylinder Pinhole of Piston; Design of Spindle Dynamic Balancing Basing on Discal Work; Design Optimization of Opposite Tape-Spring Flexure Hinges; Finite Element Analysis of Large Mining Height Hydraulic Support Top Beam; Finite Element Analysis of the Car Steering Knuckle Based on ANSYS; Modal Analysis of Axial Vibration of Long Pipeline Delivering Coal Slime in Power Plant; Numerical Analysis of Tension Force Subjected by Flexible Mattress Prediction of Machine Tool Thermal Error Compensation Based on SVMR and ARM11 Research on Opening Holes in Cylindrical Shell Based on ANSYS Simulation; Structure and Fluid Dynamic Characteristics Analysis of Enclosed Nuclear Electric Valve; Study of the Vibratory Stress Relief for Large-Scale Parallel Welded Steel Truss; The Finite Element Analysis of the Floor Damper of High Speed Train; Study on Optimizing the Parameters of Floor Absorber of High Speed Train Floor; Thinking about the Calculating Formula of Degree of Freedom of Plane Mechanism Algorithm of Transition Curve of Shaped Piston Cylindrical Cross Section

Sommario/riassunto

Collection of selected, peer reviewed papers from the 3 rd International Conference on Mechanical, Information and Industrial Engineering, November 21-22, 2014, Weihai, China. The 219 papers are grouped as follows: Chapter 1: Materials Science and Processing Technologies; Chapter 2: General Mechanical Engineering, Applied Mechanics and Dynamics; Chapter 3: Mechatronics, Robotics and Vehicle Engineering; Chapter 4: Control Technologies, Automation, Design and Simulation of Manufacturing; Chapter 5: Electrical Engineering and Electric Power Machines; Chapter 6: Power System and Energy Engineering