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| Collana | Applied Mechanics and Materials, , 1662-7482 ; ; Volume 577 |
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| Soggetti | Mechanical engineering Electronic books. |
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| Formato | Materiale a stampa |
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| 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 | Applied Decisions in Area of Mechanical Engineering and Industrial Manufacturing; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Materials Science and Processing; Modeling and Analysis the Effect of Helical Carbon Nanotube Morphology on the Mechanical Properties of Nanocomposites Using Hexagonal Representative Volume Element; The Catalyzed Synthesis of Prenyl Alcohol; Preparation and Effect of Heat Treatment Temperature on the Crystal Phase of Anodic Aluminum Oxide Films; Effect of Preparation Conditions on the Performance of Electrodeposited Mo-Ni Coating The Room Temperature Ferromagnetism of (N, Co) Co-Doped ZnO Nanoparticles Stress Corrosion Cracking of Stainless Steel Expansion Joint for Heat-Supply Network; Study on the Effect of Fuel Sulfur Content on Emission Characteristics in Diesel Engine; Research on Emission Performances of Emulsified Diesel Oil with Diethyl Ether; Experimental Study on Frictional Resistance Characteristics of CO ₂ -Emulsified Viscoelastic Surfactant Fracturing Fluid; Effect of Electrical Conductivity and Physical Performance about Vulcanization System in Conductive Silicon Rubber |

Numerical Simulation of Borehole Heat Transfer with Phase Change Material as Grout; Characteristic of Porous Carbon Fiber and its Microwave Absorption as Filler for Composite; Preparation and Characterization of Proton Exchange Membrane Based on Sulfonated Poly(arylene ether sulfone)/Polyacrylonitrile (SPAES/PAN); Preparation and Properties of MWCNTs/ PBO Membrane by Electrospinning; Study on Microstructure of NiCrMoY Alloy Coatings; Application of Magnetic Control Shape Memory Alloy in Structural Vibration Control; Co-Gasification Characteristic and Kinetic Analysis of Spent Mushroom Compost and Bituminous Coal; Effect of TMCP Parameters on Microstructure and Mechanical Properties of Cargo Oil Tanks Steel; Helium Bubbles Effect on the Mechanical Properties of CLAM Alloys by Milte-Scale Simulations; Aluminium Alloy Welding the Weld Stress Deformation and Control; Maintenance Optimization of the OLED Manufacturing Process; Research on Spring-Back Simulation and Die Surface Optimization of Automotive Panel Stamping Process; The Converter Steelmaking End Point Prediction Model Based on RBF Neural Network; Structural Phase Transition and Electronic Properties of MgCe under High Pressure from First-Principles Calculations; Study on Machining Mechanism of Glass Using Discrete Element Method; Population Transfer in Multilevel System via Modified Stimulated Raman Adiabatic Passage; Chapter 2: General Mechanical Engineering and Applied Mechanics; A Method for Double Random Vibration Analysis; Analysis of Dynamic Characteristics on Continuous Tension Leveler; Analysis of Hydraulic Jarring Dynamics and Calculation of Impact Force; Analysis of the Influence of Superelevation of Subway Line Act on Wheel-Rail Wear

Sommario/riassunto

Collection of selected, peer reviewed papers from the 3rd International Conference on Mechanical, Control, and Electronic Information (ICMCEI 2014), June 27 -29, 2014, Taiwan. The 283 papers are grouped as follows: Chapter 1: Materials Science and Processing, Chapter 2: General Mechanical Engineering and Applied Mechanics, Chapter 3: Mechatronics, Control Systems and Robotics, Chapter 4: Electrical Engineering, Apparatus and Power Engineering, Chapter 5: Electronics and Integrated Circuits, Embedded Technology, Chapter 6: Measurements, Testing and Monitoring, Chapter 7: Signal, Image Processin