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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 CO2-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