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Titolo	Recent trends in materials and mechanical engineering II : selected, peer reviewed papers from the 2013 2nd International Conference on Recent Trends in Materials and Mechanical Engineering (ICRTMME 2013), September 21-23, 2013, Singapore / / edited by Qi Luo and Wei Deng
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Collana	Applied mechanics and materials ; ; 420
Altri autori (Persone)	QiLuo DengWei (Computer engineer)
Disciplina	620.1
Soggetti	Materials Mechatronics Automation Mechanical engineering Electronic books.
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Recent Trends in Materials and Mechanical Engineering II; Preface and Organizing Committee; Table of Contents; Chapter 1: Applied Mechanics; A Subassembly Simulation Method with Physical Deformation and Reconstruction of an Aircraft; Study on Influences of Air Spring Failures on Ride Quality of High-Speed Railway Trains; Study on the Resonant Frequency Gliding in the Ultrasonic Systems Loaded with Variable Axial Compression Force; Application of Fuzzy Structural Analysis for Damage Prediction Considering Uncertain S/N Curve; Rough Air-Soft Elastohydrodynamic Lubrication Theoretical Investigation of Transient Lubrication in Spur Gear Variable Reynolds Number Experimental Study on Aerodynamic Characteristic of Supercritical Airfoil RAE2822; Experimental Investigation on Cavitation Characteristics of a Three-Groove Journal Bearing; Performance Analyses of the Spiral Groove Dry Gas Seal with Inner Annular Groove;

Design of 3-D Functional Characteristic Parameters of Rolling Interface Measurement System; Crack Identification in Vibrating Beams Using Haar Wavelets and Neural Networks; Sensitivity Analysis Application for Multibody System Synthesis

Experimental Research on Cavitation Characteristics of a Novel Hybrid Journal Bearing Optimizing of Electric Discharge Texturing Parameters of Rolls of the Rolling Mill of Steel Sheets; Influence Analysis of Geometric Errors to Volumetric Machining Accuracy of a 5-Axis CNC Machine Tool; A Study on the Sound-Absorbing Characteristics of Multi Air Layer; Research on Ceramic Tile Automatic Packaging Corner Machine Based on Extension Theory; Chapter 2: Materials Science and Materials Processing Technology; Preparation and Properties of Poly (lactic Acid) Fiber Reinforced PHBV Composite

Self-Assembly of Asymmetrical Diblock Copolymers Confined in Carbon Nanotube Influence of Various Nanofluid Types on Wavy Microchannels Heat Sink Cooling Performance; The Microstructure and Tribological Behavior of Ti/a-C and Ti/a-C:H Films Prepared by Magnetron Sputtering; Ozonation Influence on Aluminum Ions in an Aqueous Solution, in Different Temperature Conditions; Defects and Electrical Properties of Crystalline Silicon at Different Metallurgical Route; Effect of Na₂O-SiO₂ Slag Treatment on Hydrometallurgical Purification of Metallurgical Grade Silicon

A Study on the Characteristics of Bogie Frame Materials The Influence of the Processing Parameters in the Ultrasonic Activated Injection and Extrusion; Investigation on Fe-Sn-O Catalyst Activity for the Growth of Carbon Nanocoils; Study on Microstructure and Tensile Properties of New Cu-Al Bi-Metal Tubes Versus Pure Copper Tubes; Microstructure Characterization of Low Density EPS; On-Road Particulate Emission Characteristics of a Diesel Vehicle with Butanol-Diesel Blends Determination of Specific Heat of Eutectic Indium - Bismuth-Tin Liquid Metal Alloys as a Test Material for Liquid Metal - Cooled Applications

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 2nd International Conference on Recent Trends in Materials and Mechanical Engineering (ICRTMME 2013), September 21-23, 2013, Singapore. The 66 papers are grouped as follows: Chapter 1: Applied Mechanics; Chapter 2: Materials Science and Materials Processing Technology; Chapter 2: Materials Science and Materials Processing Technology; Chapter 4: Control and Automation Systems.