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Titolo	Machinery, materials science and engineering applications 2014 : selected, peer reviewed papers from the 4th International Conference on Machinery, Materials Science and Engineering Applications (MMSE 2014), June 28-29, 2014, Wuhan, Hubei, China // edited by Quanjie Gao, Simon Barrans and Qiang Xu
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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Machinery, Materials Science and Engineering Applications 2014; Preface and Conference Committees; Table of Contents; Chapter 1: Advanced Materials and Materials Processing; The Effect of Relative Thickness on Microstructures of TiB ₂ /TiC Particles Reinforced Carbon Steel Matrix Surface Composite; Influence on Rare Earth Re ₃₊ by the Performance of Composite Brush Plating of Ni-P; Optical Properties and Zinc Nitride Thin Films Prepared Using Magnetron Reactive Sputtering; Strain-Hardening Polyvinyl Alcohol Fiber Cement Optimization and Component Tailoring Investigation of Solvent-Dependent Catalytic Behavior of a Hydrophobic Guest Artificial Glutathione Peroxidase Research on Ni-P-Carbon-Nanotube Electro-Brush Plating Composite Coating Technology; Effect of Addition of Sc, Zr, Er on Microstructure of Al-Mg Ingot to Generate Welding Wire and Micro-Hardness of Surfacing Layer; Separation of Microcystin-RR and Research of its Storage Conditions; Analysis of the Solubility of TNT and RDX in TNT/RDX/SC-CO ₂ ; Effect of Surface Morphology and Microstructure on Powdering Resistance Performance of GA Coatings with Different Aluminum Contents Preliminary Review of the Influence of Cavitation Behavior in Creep

Damage Constitutive Equations The Status and Development of Water Treatment Technology for Supercritical Unit; Modifying Sodium Bicarbonate for Foaming Polymers; Chapter 2: Applied Mechanics, Mechanical Engineering and Design; Study of Breeze Vibration of Overhead Transmission Lines with Dampers Using FEM Analysis; Study on Inspection Methods for High-Speed Progressive-Die Punched Strips; The Influence of Friction Coefficient on Tenon/Groove Contact Performance in Nickel-Based Turbine Blade-Disc Fatigue Life Analysis of Mine Hoist Drum Optimization Design for the Stationary Platen Based on Uniform Design; Calculation and Analysis of Dynamic Characteristic for Four-Cylinder Engine's Crankshaft; Study on Dynamics Simulation of Long Range Rocket Artillery Launch Guider in Firing Process Based on ADAMS; Application of the Magnetostrictive Displacement Sensor in the Self-Propelled Artillery in the Performance Test; Simulation on the Vehicle Frontal Collision Based on the PC-Crash; Study on Analysis of Certain Artillery's Planetary Transmission Design Based on ANSYS Application of FTA-FMEA Method in Fault Diagnosis of Tracked Vehicle Failure Analysis and Troubleshooting for Certain Tracked Artillery Deviation; Optimization Design on Variable Cycle Engine Performance Based on Genetic Algorithm; Research on Transmission Approach between Title Bar Information of Engineering Drawing and PDM; The Design of Detect Equipment of the Self-Propelled Artillery Hydraulic System Based on Data Fusion Technology; Dynamic Simulation Analysis of the Crane Hoisting Process Based on Adams Research on the Gear Box Fault Diagnosis of Self-Propelled Artillery Based on Vibration Signal Analysis

Sommario/riassunto

Collection of selected, peer reviewed papers from the 4th International Conference on Machinery, Materials Science and Engineering Applications (MMSE 2014), June 28-29, 2014, Wuhan, Hubei, China. The 117 papers are grouped as follows: Chapter 1: Advanced Materials and Materials Processing, Chapter 2: Applied Mechanics, Mechanical Engineering and Design, Chapter 3: Control Systems, Electrical and Power Engineering, Chapter 4: Computational and Information Technologies The 118 papers cover advanced materials and material processing; applied mechanics, mechanical engineering and design; control s
