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Titolo	Mechanical components and control engineering III : selected, peer reviewed papers from the 3rd Asian Pacific Conference on Mechanical Components and Control Engineering (ICMCCE 2014), September 20-21, 2014, Tianjin, China // edited by Weimin Ge
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Descrizione fisica	1 online resource (1722 p.)
Collana	Applied Mechanics and Materials, , 1662-7482 ; ; Volume 668-669
Disciplina	621.82
Soggetti	Machine parts Machine design Control systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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 Components and Control Engineering III; Preface, Committees and Sponsor; Table of Contents; Chapter 1: Materials Science and Processing Technologies; Comparison Research of Aircraft Panels Connected by Friction Stir Welding and Riveting; Controllable Tuning of the Spin-Dependent Transport in the Graphene Sheet; Discrete Element Simulation and Analysis for Max Density Curve Theory of Mineral Aggregate Mixtures; Dispersion Management and Nonlinearity Enhancement in a Hybrid Nanofiber with a High Index, Cross-Slot-Structure Nanocore Effect of Carbon Nanotubes on Morphology and Property of Natural RubberFirst-Principles Study on Optical Properties of Cd-Doped Single-Walled (8, 0) ZnO Nanotube; Liquid Crystalline PET/60HBA-MWNTs Composite: Synthesis, Characterization, and Properties; Low Temperature Densification of ZnO-Based Ceramic Using Phenolic Resin as Binder; Mechanical Property and Corrosion Resistance of the E309L Buffer Layer in Weld Overlay; Multi Fractal Characteristic of Metal Material Worn Surface with Plant Abrasive Preparation and Photoluminescence of Red, Green and Blue Fluorescent

Dyes Co-Doped Nanoporous Silica by a Sol-Gel Method; Research on Distribution Regularity of Nano-Sized WC in Cast Steel; Research on Electrical Discharge Grinding of Polycrystalline Cubic Boron Nitride Cutting Tool; Simulation of Fiber Orientation in Dumbbell-Shaped Injection Cavity; Structural Phase Stability and Electronic Properties of Magnesium under High Pressure from First-Principles Calculations; Study of the Mechanical Properties of Ceramics Modified Composite Insulator Materials

Study on the Critical Control of Foam Insulation Materials Produced by Waste TFT-LCD Glass; Synthesis of a Cholesterylated Compound Containing Carboxyl Functional with PEG2000 Chain for Hepatic Targeting Liposome Ligand; The Analysis for Crystallization of Sn-Pb Alloys Using Acoustic Emission Testing about Wind Turbine Root Materials; The Original Carbon-Copper Compound as a New Source of Electric Power; Thermal Reaction Kinetics of Fly Ash Cement Paste at the Age of 28 Days; Ellipsometry Analysis of  $Mg_{x-1}Zn_1-xO$  Films on Silicon Substrates

Failure Analysis of Differential Pressure Transmitter Impulse Pipe in High Sulfur Purification Device; The Research of the Structure and Performance Based on Quantum Dot Light Emitting Devices; Chapter 2: General Mechanical Engineering, Applied Mechanics and Dynamics; A New Approach for Determining Bolt Load of Eccentric Bolted Joints; A New Numerical Method for Two Phase Flow in Heterogeneous Porous Media; A Novel Tyre Force Distribution Method for Four-Wheel Independent Driving Vehicles; A Prediction Model for Equivalent Parameters of Cylindrical Fixed Joint  
A Study on Conjugate Cam Beating-Up Mechanism

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#### Sommario/riassunto

Collection of selected, peer reviewed papers from the 3<sup>rd</sup> Asian Pacific Conference on Mechanical Components and Control Engineering (MCCE 2014), September 20-21, 2014, Tianjin, China. The 367 papers are grouped as follows: Chapter 1: Materials Science and Processing Technologies, Chapter 2: General Mechanical Engineering, Applied Mechanics and Dynamics, Chapter 3: Mechatronics and Robotics, Chapter 4: Control Technologies, Automation, Design and Simulation of Manufacturing, Chapter 5: Electrical Engineering and Electric Machines, Chapter 6: Power System and Energy Engineering, its Application

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