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Titolo	Machinery electronics and control engineering IV : selected, peer reviewed papers from the 2014 4th International Conference on Machinery Electronics and Control Engineering (ICMECE 2014), November 8-9, 2014, Qingdao, Shandong, China // edited by Lei Jia and Jinshou Yu
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Descrizione fisica	1 online resource (378 p.)
Collana	Applied Mechanics and Materials, , 1662-7482 ; ; Volume 705
Disciplina	629.8
Soggetti	Automatic control Electric driving Electric machinery Electronic books.
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	Machinery Electronics and Control Engineering IV; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Advanced Materials Engineering and Processing Technologies; Characteristics of Nanostructured TiO ₂ Prepared by One-Step Soaking Method for Photovoltaic Application; Natural Materials for Thermal Insulation: Mulch and Lava-Rock Characterizations; Thin-Shell Silk Cocoon (TSC) as a Nitrogen Source of ABE Fermentation by Clostridium acetobutylicum; Enhancing Sustainable Recycle Solid Waste to Porous Activated Carbon for Methane Uptake Sustainable Recycle Solid Waste to Synthetic Renewable Solid Energy Enzymatic Esterification of Oleic Acid and Propanol by Novozym 435; Impact of Powder Metallurgy Electrode in Electric Discharge Machining of H-13 Steel; Recycled Cigarette Filter as Reinforcing Filler for Natural Rubber; Manufacturing Method of Increasing Hollow Steel Shaft Thickness Using Uniaxial Pressing; Electrospray Coating of a TiO ₂ Electrode for Dye-Sensitized Solar Cells by a Post-Treatment Method;

Preparation and Characterization of Hot Wall Deposited CuInGaSe₂ Thin Films for Solar Cell Applications
Quantitative Characterization of Sulfide Corrosion Reaction in Transformer Oil
Continuous Transesterification for Ethyl Ester Production from Refined Palm Oil through Static Mixer; Chapter 2: Applied Mechanics, Mechanical Engineering and Manufacturing Technologies; Design of a Novice Hydraulic Buoyant Force Engine; Multi-Objective Optimization of a Two-Disk Rotor System; 2k-H Planetary Gear Transmission System and its Largest Lyapunov Exponent; Comparison of the Strength Analysis about Single Bogie Frame and its in the Assembly
Numerical Simulation of the Nozzle Angles Effect on the Pressure at Thrustwall and Nozzle Outlet of PDESMA Damped Tape Spring Hinge for Quasi-Static Deployment of a Satellite Solar Array; The Fluid-Structure Interaction Analysis of the Inverted Umbrella Aerator Curved Blade; A Processing Approach Incorporating Copper Backing-Wheel Device in Submerged Arc Welding for Manufacturing Cryogenic Storage Tanks; Modeling of Droplet Generation by a Modified T-Junction Device Using COMSOL; The Design of Self-Erection Derrick of Simple Offshore Workover Rig
Vibration Forecast and Vibration Attenuation Research of the Finished Motorcycle Based on Virtual Analysis
Secondary Flows in Radial Diffusing Channels; Master Slave Quadrotor Formation for Lifting Force Multiplication; Increase in Accuracy and Smoothness of Movement of the Mechatronic Unit of Linear Micromotions; In-the-Loop Simulation Based on the Test Bed of Automotive Steer-by-Wire System; Discussion of Modern Machinery Production Technique and High Precision Machining Technology; Design and Application of Electromechanical Brake System
The Parametric Design of Scissors Lifting Platform Based on SolidWorks and Optimization Analysis

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 4th International Conference on Machinery Electronics and Control Engineering (ICMECE 2014), November 8-9, 2014, Qingdao, Shandong, China. The 69 papers are grouped as follows: Chapter 1: Advanced Materials Engineering and Processing Technologies; Chapter 2: Applied Mechanics, Mechanical Engineering and Manufacturing Technologies; Chapter 3: Electronic Technologies and Integrated Circuits; Chapter 4: Electrical Engineering and Electric Machines; Chapter 5: Power System and Energy Engineering, its Applications; Chapter 6: Automation and
