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Titolo	Information engineering for mechanics and materials research : selected, peer reviewed papers from the 2013 International Conference on Information Engineering for Mechanics and Materials (ICIMM 2013), July 5-7, 2013, Hangzhou, China // edited by Yoshinori Hayafuji and Xiancan Deng
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Descrizione fisica	1 online resource (349 p.)
Collana	Applied mechanics and materials ; ; 422
Altri autori (Persone)	HayafujiYoshinori DengXiancan
Disciplina	620.11
Soggetti	Materials - Research Mechanics, Applied - Data processing 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 and indexes.
Nota di contenuto	Information Engineering for Mechanics and Materials Research; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Material Science and Technologies; The Cause of the Problems and Solving Measures in Molten Iron Pretreatment; Analysis of Magnetic Mark Display in Magnetic Particle Testing; Determination of Morphology and Mechanical Properties of Polyhedral Oligomeric Silsequioxane (POSS) Based on Poly(vinylidene fluoride) Matrix; Computational Modelling of a Particulate Material under Blast Loading; Study on Thermal Degradation of Phenolic Resin Research on Quantitative Metallographic Analysis for Metallic Materials of Power GridThe Effects of FGD Gypsum on the Performance of Cement; Polar Probe Study of Water-Organic Solvent-Macromolecule Emulsifier Aggregates Structure; The Effect of FGD Gypsum Heat Treatment Process on Properties of Cement; Effect of Trace Element Strontium on Serum Indexes in the Blood of Rats with Type I Diabetic; Effect of BaTiO3 Addition on Mechanical Properties of BaTiO3/Al2O3

Composite; The Insulation Sheath Detection Based on X-Ray
Properties of Annealed Indium Tin Tantalum Oxide Films Prepared by
Reactive Magnetron SputteringThe Research and Development of Hot
Stamping Forming Technology and Production Line in View of High
Strength Steel Plate; Chapter 2: Research and Designing in Mechanical
Engineering; The Transformer Fault Diagnosis Method Based on
Improved Support Vector Machine; The Applied Research on Improved
Design of Product Forms Based on Reverse Engineering Technology;
Research on Quick Salting Duck Egg with Pulsed Pressure and Water
Cycle Technology
The Application of Contact Element in Finite Element AnalysisStudy of
Piezoelectric Vibration Damping Based on the SSDI Technology for
Aircraft Panels; Design of a New Normally Closed Type Safety Valves for
Gas; A Study of Solar Panel Chimney for House Ventilation; Angular
Acceleration Measurement Experiment Study of Stepping Motor on
Single Clap Operation; Optimal Launch Vehicle Configuration from
Existing Solid Rocket Motors Using Genetic Algorithm; The 3D
Parametric Modeling and Simulation of SL1126 I.C.Engine; Designation
of a Grating Torque Measurement Device Based on FPGA and MCU
Present Situation and Development Review of Torque
MeasurementCompatibility Problem of TN and IT System in the Same
Building; Design of Milk Packaging Line Based on FluidSIM-P; Chapter
3: Control and Intelligent Automation; Design of Virtual Assembly
Sequence Planning System Based on Double Bases Cooperation
Mechanism; Detection of Intima-Media Thickness in Common Carotid
Artery on Ultrasound Image; The Application of Augmented Reality in
Mobile Learning Based on Cloud Computing; The Study of Access
Mechanism for the Security of Linux
Applied to Medical Monitoring of the Wireless Sensor Network Design
and Research

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013
International Conference on Information Engineering for Mechanics and
Materials (ICIMM 2013), July 5-7, 2013, Hangzhou, China. The 58
papers are grouped as follows: Chapter 1: Material Science and
Technologies; Chapter 2: Research and Designing in Mechanical
Engineering; Chapter 3: Control and Intelligent Automation; Chapter 4:
Applied Computational Procedures and Information Technologies;
Chapter 5: Related Topics. The 58 papers cover material science and
technologies, research and design in mechanical engineering, control
and intelli
