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Titolo	Engineering solutions for intensification of production : selected, peer reviewed papers from the 2014 2nd International Conference on Manufacturing Engineering and Technology for Manufacturing Growth (METMG 2014), January 20-21, 2014, Miami, State of Florida, USA // edited by Dayun Xu
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Collana	Advanced Materials Research, , 1662-8985 ; ; Volume 902
Disciplina	670
Soggetti	Production engineering Manufacturing processes Manufacturing industries - Technological innovations
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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	Engineering Solutions for Intensification of Production; Preface and Organizing Committee; Table of Contents; Chapter 1: Materials Science, Technology of Materials Processing and Chemical Engineering; A Study on Comparison of Mechanical, Thermal Properties of High Strength Structural Steels at High Temperature; Fabrication of 6.5wt%Si Composite Plate by Coat Casting and Hot Deformation Processes; Laser Compensation for Ceramics Accuracy Improvement of Selective Laser Sintering; Microstructural and Mechanical Characterization of Multipass Friction Stir Processed Al-Mg Alloy Superplasticity and Superplastic Tensile Behaviour of AA5083 Review Article: Mechanism of Resonant Enhancement of Gold- and Copper-Nanowires Arrays; Modeling a Compact Sintering Process Based on Biomass Fuels; Effect of SO2 on the Performance of LSCF Cathode; Microstructure Features of Ti-6Al-4V Alloy Deposited by Laser Direct Deposition; Preparation of Microencapsulated Phase Change Materials Using Surface Modification Method; Study on the 3D Pattern of Hole Wall in Drilling Carbon Fiber Reinforced Plastics Using Orthogonal

## Experiment

Morphology and Mechanical Properties of Compatibilized Nucleated Polypropylene/Polystyrene Blends  
Review on Surface Failure Mode of Metallic Materials in Very High Cycle Fatigue Regime; Prolonged Anti-Inflammatory Activity of Topical Melatonin by Niosomal Encapsulation; Friction and Wear of Jatropha curcas Oil Using a Four Balls Tester; The New Fluidized Bed Thermo-Chemical Treatment in Chemically Active Powders - CFD Analysis of the Method; Study of the Relationship between Cutting Speed, Tool Wear and Machining Forces in Turning with Carbide Tool

Study of the Relationship between Tool Wear and Surface Finish in Turning with Carbide Tool  
Optimization of Dynamics of Chemical Reactor; Influence of Emulsion on the Corrosion and Scaling on Pipelines of Cooling System Deep Coal Mine: A Experiment Study; Economic Life Evaluation of Wagon Side Frame Based on Durability Analysis; Chapter 2: Researches and Design of Machinery and Equipment for Industry; Tribological Prototype for Wear Tests on Pavement Surfaces; Stable Equilibrium Analysis and Simulation Considering Effect of Cutting Fluid Inside and Outside BTA Boring Bar  
Contribution of Magnetostriction to Transformer Core Vibration under DC Bias  
Vibration Analysis of Motor Stator; Measurement of Residual Stresses in Molded Glass Lenses; Dynamic Characteristics of Vibrating Cone Crusher with Dual Exciters Considering Material Effects; Research on the Design of Transformer Energy-Saving Model; Giant Magnetostrictive Freezing Rain Sensor; Application Study on Multiple Acoustic Paths Intersection in Temperature Field Measurement; Strength Analysis of Towing Extending-Retracting Equipment Based on Dynamics and Statics  
Analysis on Strength of Dropping System Based on Dynamics and Statics

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## Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 2<sup>nd</sup> International Conference on Manufacturing Engineering and Technology for Manufacturing Growth (METMG 2014), April 27-28, 2014, Hong Kong, China. The 78 papers are grouped as follows: Chapter 1: Materials Science, Technology of Materials Processing and Chemical Engineering, Chapter 2: Researches and Design of Machinery and Equipment for Industry, Chapter 3: Mechatronics, Robotics and Technology of Control in Manufacture, Chapter 4: Information Technologies and Data Processing in Engineering Practice, Chapter 5: Engineering Manageme

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