

1. Record Nr.	UNINA9910465145803321
Titolo	Materials and Diverse Technologies in Industry and Manufacture : selected, peer reviewed papers from the 2013 International Conference on Mechanical, Automotive and Materials Engineering (CMAME 2013), July 26-27, 2013, Hong Kong // edited by Muhammad Yahaya
Pubbl/distr/stampa	Durnten-Zurich, Switzerland : , : Trans Tech Publications, , [2013] ©2013
ISBN	3-03826-188-2
Descrizione fisica	1 online resource (503 p.)
Collana	Applied mechanics and materials ; ; v. 376
Altri autori (Persone)	YahayaMuhammad
Disciplina	620.11
Soggetti	Production engineering Information technology - Management Manufacturing industries 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	Materials and Diverse Technologies in Industry and Manufacture; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Materials Science, Structural Composites, Material Processing; Analysis and Modeling of Wafer Thermal Transfer in a PECVD Reactor; Effect of Physical Parameters on DeNOx Conversion in Selective Catalytic Converter Used in Diesel Vehicles; Powder Injection Molding of 20-40 Vol.% Silicon Carbide Particulate-Reinforced Aluminum Composites; The Study of Manufacturing and Ingot Characterization of U-Zr Alloys; Dyeing of Blended Fabric with Pigment Table Type Sun Drying for Seaweed Preservation SPS Method for Manufacturing Carbide Materials; Friction Stir Welding of Dissimilar 5xxx to 6xxx Al Alloys: A Review; Oxidation of Nb/Nb5Si3 In Situ Composites Fabricated via Spark Plasma Sintering with Al Addition; Effect of Co Addition on the Microstructure of Matrix in Tungsten Carbide Reinforced Surface Composite; Lifetime Prediction of Fire Extinguishing Pipeline by Means of Extreme Value Statistics; Acetylene Ignition Process in Combustion Thermal Spray; In-Plane Shear Damage

Prediction of Composite Sandwich Panel with Foam Core

The Influences of Reheating Process to the Semi-Solid Microstructure of Hypereutectic Al-22Si-1.93Fe-1.36Mn Alloy by Cooling Slope Laminar Burning Velocity and Flammability Characteristics of Biogas in Spark Ignited Premix Combustion at Reduced Pressure; Chapter 2: Nanomaterials Science; Effect of TiO₂ Nanoparticles on Tensile and Photodegradation Behavior of Biopolymer Films Based on Poly(Butylene Succinate); Effects of pH on Tin Nanoparticles Prepared Using a Modified Polyol Synthesis; Nanofiber: Applications and Implementation in Advance Water Treatment Techniques

Chapter 3: Mechanical Properties of Materials, Deformation, Coating Engineering Finite Element Study on the Influence of Shear Key Diameter on the Shear Performance of Composite Sandwich Panel with PU Foam Core; Study on the Rock Slope Landslide Caused by Earth Penetrating Weapon Explosion; Stress Analysis of the Suspended Centrifuge Drum for Sugar; 1000mm² Conductor Creep Characteristics and Temperature Reduction Value; Effects of Hard Segment Contents on Dynamic Mechanical Properties of Gap-Based Polyurethane Elastomers; Strength of Extreme Soils Blended with Fly Ashes for Pavement

Effect of Internal Pressure and Dent Depth on Strain Distribution of Pressurized Pipe Subjected to Indentation Research on In-Planestatic Mechanical Performance of Honeycomb Paperboard Based on Virtual Simulation; Microstructure and Hardness of Fe-Based Coating by Plasma Cladding; Fabrication and Mechanical Properties Study of the Magnetorheological Elastomer; Microstructure and Mechanical Properties of Ti/Cu-Cr/S20C and Ti/Cu-Ag/S20C Clad Composites; Investigation on Effect of the Pitch of Shear Keys on the In-Plane Shear Performance of Sandwich Panels with PU Foam Core: FE Study Effect of Thermo-Mechanical Treatment (TMT) on Hardness of Heat-Treated Al-Mg-Si (6082) Alloys: Experimental Correlation Using (DOE) Method

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 International Conference on Mechanical, Automotive and Materials Engineering (CMAME 2013), July 26-27, 2013, Hong Kong. The 89 papers are grouped as follows: Chapter 1: Materials Science, Structural Composites, Materials Processing; Chapter 2: Nanomaterials Science; Chapter 3: Mechanical Properties of Materials, Deformation, Coating Engineering; Chapter 4: Computing Methods and Algorithms; Chapter 5: Experimental Methods and Studies; Chapter 6: Design, Modelling, Simulation and Optimization Technologies, CAD Applications; Chapter 7: Au
