

1. Record Nr.	UNINA9910463503603321
Titolo	Applied mechanics and manufacturing technology : selected, peer reviewed papers of the 2011 International Conference on Applied Mechanics and Manufacturing Technology (AMMT 2011), August 4-7, 2011, Bali, Indonesia // edited by Ford Lumban Gaol [and three others]
Pubbl/distr/stampa	Durnten-Zurich, Switzerland : , : Trans Tech Publications, , [2011] ©2011
ISBN	3-03813-545-3 1-61344-704-3
Descrizione fisica	1 online resource (274 p.)
Collana	Applied mechanics and materials, , 1660-9336 ; ; volume 87
Altri autori (Persone)	GaolFord Lumban
Disciplina	620.1
Soggetti	Mechanics, Applied Manufactures - Technological innovations 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	Applied Mechanics and Manufacturing Technology; Preface, Committees and Sponsors; Table of Contents; Chapter I: Applied Mechanics; System Configuration and Evaluation for Optical Sled Drive Using Constraint-Tuning Ultrasonic Actuator; Mechanical Properties of Several NiTi Alloy Wires in Three-Point Bending Tests; Composition and Transitional Temperature Range of Several Nickel-Titanium Alloy Wires in Orthodontic Treatment; Radial Oscillation of Incompressible Rectangular Vulcanized Rubber Sealing Rings Multiobjective Optimization of Hybrid Electrical Vehicle Powertrain Mounting System Using Hybrid Genetic Algorithm Mechanical Properties and Reinforcement Mechanism of Amorphous Particles Reinforced Aluminum Matrix Composites; Error Analysis Model of Aircraft Multi-Joint Assembly Based on Linkage Mechanism Theory; Layup Analyzing of a Carbon/Glass Hybrid Composite Wind Turbine Blade Using Finite Element Analysis; Analysis of A/C Double Angular Milling Head's Performance; Analysis on the Thermal Error Compensation Model of Direct-Drive A/C Bi-Rotary Milling Head

Bi-Layered Model of Interfacial Thermal Stresses with the Effect of Different Temperatures in the Layers Mesoscale Simulation of Uniaxial Tension of FCC Polycrystal Using Viscoplastic Self Consistent Method; Experimental Investigation a Hydrofoil Lift Characteristic under the Action of Lorentz Force; Application of Taguchi and Response Surface Methodologies for Surface Roughness in Rotary Tool Polishing Hardness Mould Steels; Portable Underwater Pressure Measurement System; Property Improvement of TiNi by Cu Addition for Orthodontics Applications

A New Information Entropy-Based Ant Clustering Algorithm
Experimental and Finite Element Analysis Approach for Fatigue of Unidirectional Fibrous Composites; Analysis of the Impact of In Situ Repair Technology on the Surface Integrity of Excavator Bucket Bores; A Fuzzy Logic Based Rocket Launch Tube's DFMEA; Active Vibration Suppression Based on Intelligent Control for a Long-Range Ultra-Precise Positioning System; Mechanical Strain for 0.16 m nMOSFET on 30 m Si-Substrate; Superplastic Forming of Combustion Chamber Experimental Verifications and Simulations of Magnetic Motor of Circular Miniature Loudspeaker for Total Harmonic Distortion Improvement Droplet Movement on a Low Cost EWOD According to Applied Frequencies and Voltages; Transient Behavior of Air Flow through the Intake Manifold of a Heavy Duty Diesel Engine; Structure Parameter Analysis of Loop Outlet Based on the Orthogonal Experiment; Influence of Size of Abrasive Particles in Conveyor Liquid on Ultrasonic Cavitation Machining Process; Chapter II: Manufacturing Technology
Investigating Mass Customization Implementation in Iranian Manufacturing Organizations

Sommario/riassunto

These proceedings of the 2011 International Conference on Applied Mechanics and Manufacturing Technology (AMMT'11) focused on applied mechanics and its application to manufacturing technology, and thus provided a forum within which researchers and practitioners could exchange research results and share developmental experiences in these fields. The contents represent a timely survey of the subjects covered. Review from Book News Inc.: The 46 papers selected for the August 2011 conference test the properties of nickel titanium orthodontic wires, metallic glass particle reinforced aluminum matri
