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Collana	Applied Mechanics and Materials, , 1662-7482 ; ; Volume 612
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Soggetti	Industrial design - Technological innovations Manufacturing processes Materials science
Lingua di pubblicazione	Inglese
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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	Advanced Research in Design, Manufacturing and Materials; Preface and Committees; Table of Contents; Vibration Control of Sandwich Plates; Response of Starter Motor of an Engine Subjected to Random Vibrations; Vibration Analysis of Multi-Disk Multi-Profiled Shaft-Rotor Systems; Vibration Analysis of Simply Supported Magneto Rheological Fluid Sandwich Beam; Dynamic Stability of a Motorized High Speed Machine Tool Spindle Supported on Bearings; Investigation of Transverse Surface Crack on Vibration Analysis of Rotating Shaft Flow Stress Prediction of Ti-6Al-4V Alloy at Elevated Temperature Using Artificial Neural NetworkValue Stream Evaluation and Simulation to Improve Material Flow and Productivity; Analysis and Optimization of Process Parameters of Abrasive Flow Machining Process for Super Finishing of Non-Ferrous Material Nozzle; Effect of Time Scaling and Mass Scaling in Numerical Simulation of Incremental Forming; Performance Evaluation of an Engine Assembly Line through Simulation; Analysis of Failure in Adhesively Bonded Joints Using Traction Separation Theory Investigation of the Machinability Characteristics of GFRP / Epoxy

Composites Using Taguchi MethodologyImperata cylindrica / Sacred  
Grass Long Fibre Reinforced Polyester Composites - An Experimental  
Determination of Properties; Experimental Optimization of Thickness of  
Protective Padding for Two-Wheeler Rider's Helmet; Selection of  
Material for Wind Turbine Blade by Analytic Hierarchy Process (AHP)  
Method; Effect of Weight Percentage on Mechanical Properties of Boron  
Carbide Particulate Reinforced Aluminium Matrix Composites;  
Fabrication and Sliding Wear Behaviour of Metal Matrix Composites  
Effect of Graphite Addition on the Mechanical Properties of Stir Cast  
Particulate Aluminum Metal Matrix Composite Reinforced with Alumina  
and Silicon CarbideActive Control of Thermally Induced Vibrations in  
Smart Structure Instrumented with Piezoelectric Materials;  
Characterisation of the Key Fuel Properties of Oxygenated Diethyl  
Ether-Diesel Blends; Ecofriendly Refrigerants; Scavenging of Nickel(II)  
from Aqueous Wastes by Adsorption with Granular Activated Carbon  
(GAC); Keywords Index; Authors Index

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#### Sommario/riassunto

This book contains different topics on the important areas in  
mechanical engineering like design, manufacturing and mechatronics.  
The latest trends in research and development in composite materials,  
engineering design and analysis, automotives, manufacturing process,  
rapid prototyping are discussed in this book.

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