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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 Network Value 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 Methodology Imperata 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 Carbide Active 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

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, automobiles, manufacturing process, rapid prototyping are discussed in this book.