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Nota di contenuto	Dynamics of Machines and Mechanisms, Industrial Research; Preface and Organizing Committee; Table of Contents; Chapter 1: Advanced Material and Manufacturing Processes; A Finite Element Simulation Study on Effects of Variation in Machining and Geometrical Parameters in Turning; A Fuzzy Logic Based Model to Predict Weld Width - A Case Study of Hard Facing Process Using MIG Welding on Dual Plate Check Valve; A Study of Preparation and Characterization of Nano-Sized SiC Powder Using High Energy Ball Milling A Study on Edge Milling Operation of NEMA G11 GFRP Composites Based on Grey-Taguchi Method A Study on White Layer Thickness and Surface Crack Density in Rotary EDM of RENE80 Nickel Superalloy; Aerostatic Spherical Bearing Manufacturing Methods and Criticalities - An Approach; An Analysis on Bead Characteristics in Material Deposition by PTAW Process; An Analysis on Temperature & Surface Roughness during End Milling of Ti-6Al-4V Alloy; An Assessment on Friction Stir Welding of High Melting Temperature Materials

An Experimental Investigation on Mechanical Properties and Microstructure of Friction Stir Welding of AA5052 An Investigation of the Effect of Surface Refining on the Hardness and the Wear Properties of Al-Si Alloy; An Investigation on the Effect of Process Parameters on Microstructure, Hardness and Wear Properties of Surface Modified Cu-Sn Bronze Alloy; Analysis of AISI 1035 Grade Joints Welded Frictionally with Varying Forging Pressure; Analysis of Mechanical Properties in Zea Mays Straw Fiber Composites
Analysis of Powder Metallurgy Process Parameters for Relative Density of Low Carbon Alloy Steel Using Design of Experiments Tool
Application of Desirability Analysis for Optimizing the Micro Wire Electrical Discharge Machining (WEDM) Parameters; Calculations of Equilibrium and Non-Equilibrium Properties of Molecule-Cluster Mixtures of Oxygen; Compaction Characteristics of Tungsten Carbide Based Self-Lubricant Cutting Tool Material; Comparative Investigation on Mechanical Properties of Natural Fiber Reinforced Polyester Composites
Comparison of Machining Responses Using Multiple Regression Analysis and Group Method Data Handling Technique of EN-19 Material in WEDM Comparison Study of As-Cast and T6 Condition of Microstructure, Bending Strength and Double Shear Strength of A356 Alloy by Gravity, Vacuum and Squeeze Casting; Control of Stand-off-Distance in Abrasive Jet Machining - A Fuzzy Approach; Densification and Consolidation of Al 5083 Alloy Powder by Equal Channel Angular Pressing; Densification Behavior in Forming of Stir Casted Aluminium Boron Carbide Composite Perform during Cold Upsetting
Design, Fabrication and Analysis of Advanced Polymer Based Kevlar-49 Composite Material

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 International Mechanical Engineering Congress (IMEC-2014), June 13-15, 2014, Tamil Nadu, India. The 501 papers are grouped as follows:
Chapter 1: Advanced Material and Manufacturing Processes, Chapter 2: Nanomaterials and Nanotechnology in Machinery, Chapter 3: Dynamics and Applied Mechanics, Chapter 4: Tribology, Chapter 5: Thermodynamics and Thermal Engineering, Fuel and Diesel, Chapter 6: Applied Fluids Mechanics in Design of Machines and Equipment, Chapter 7: Vibration and Control, Chapter 8: Drive Systems of Machines, Mechatronics
