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Titolo	Advanced manufacturing research and intelligent application : selected, peer reviewed papers from the International Conference on Computational Intelligence and Advanced Manufacturing Research (ICCIAMR 2014), May 2-3, 2014, Chennai, India // edited by M. Chandrasekaran and S. Arun
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ISBN	3-03826-561-6
Descrizione fisica	1 online resource (230 p.)
Collana	Applied Mechanics and Materials ; ; v.591
Disciplina	670.42
Soggetti	Manufacturing processes
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes indexes.
Nota di contenuto	Advanced Manufacturing Research and Intelligent Applications; Preface and Organizing Committee; Table of Contents; Chapter 1: Advanced Manufacturing Engineering and Materials; Numerical Investigation on Heat Transfer of Al ₂ O ₃ /Water Nanofluid in a Shell and Tube Heat Exchanger; Effect of Surface Treatment on the Mechanical Properties of Banana-Glass Fibre Hybrid Composites; Improving the Mechanical Properties of Friction Stir Welded AZ31B Magnesium Alloy Flat Plates through Axial Force Investigation Experimental Investigations on Machining Micro Alloy Steel (MAS 38MnSiVS5) Using K 20 Multi Coated Carbide Insert Improving the Hardness of a Wind Turbine Gear Surface by Nitriding Process; Design of Electromechanical Engine for Zero Direct Emission; VED & ABC Analysis of Inventories for a Wind Turbine Company; Analysis on the Performance, Combustion and Emission Characteristics of a CI Engine Fuelled with Algae Biodiesel; Reducing UT Rejections in Cr-Mo and High Mn Steels by Controlling Hydrogen and Optimising Superheat; Synthesis and Characteristic of AA6061/SiC Sand Cast Composite Response of Composite Leaf Springs to Low Velocity Impact Loading Corrosion Behavior of Aluminium-Boron Carbide-Graphite Composites; Formability Analysis of AA6061 Aluminium Alloy at Room

Temperature; Reinforcing Effect of Montmorillonite Nanoclay on Mechanical Properties of High Density Polyethylene Nanocomposites; Influence of SMA Short Fibers on Mechanical Properties of Copper/GFRP Composites; Multi Objective Optimization for Spur Gear Design Using Sheep Flocks Heredity Model Algorithm; Dynamic Mechanical and Flexural Characteristics of Glass-Carbon Hybrid Composites Amperometric Determination of L-Ascorbic Acid Using Copper Hexacyanoferrate Nanoparticles Modified Electrode Investigation of Surface Roughness on R19 Steel Using PIN on Disc Apparatus; Comparative Investigations on the Mechanical and Tribological Properties of Glass Fibre Reinforced Thermoplastic and Blended Graphene-Oxide Hybrid Thermoplastic Nanocomposites; Abrasive Assisted Electro Chemical Machining of Aluminum-Boron Carbide-Graphite Hybrid Composite
Advanced Product Configuration in Manufacturing Using Enterprise Resource Planning Variant Configuration with Optimization in Manufacturing and Assembly Processes Variation in Residual Stresses due to Thermal Cycling Induced on the Hardfaced Grid Plate in PFBR; Mechanical Properties of Chopped Randomly Oriented Epoxy - Luffa Fiber Reinforced Polymer Composite; Evaluation of Mechanical Property of Friction Welded EN24 Steel Joints; Analysis of AISi CNT Composite Coating on Al6061 and SS304L Substrate by Plasma Spray Investigation on Impact and Compression Properties of Pineapple Reinforced Polymer Composite

Sommario/riassunto

Collection of selected, peer reviewed papers from the International Conference on Computational Intelligence and Advanced Manufacturing Research (ICCIAMR 2014), 2-3 May, 2014, Chennai, India. The 49 papers are grouped as follows: Chapter 1: Advanced Manufacturing Engineering and Materials, Chapter 2: Intelligent Algorithms and Industry Development, its Applications for Manufacturing Engineering and Automation
