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Nota di bibliografia	Includes bibliographical references at the end of each chapters and indexes.
Nota di contenuto	Technology and Engineering Reviews and Research Advances I; Preface; Table of Contents; Chapter 1: Advanced Materials, Manufacturing Technologies and Engineering, Equipment; Effect of Chitosan-Grafted-Poly (Methyl Methacrylate) Content on Mechanical Properties and Thermal Degradation of Poly (Vinyl Chloride) Composites; Effects of Halloysite Nanotubes on Mechanical and Thermal Stability of Poly (Ethylene Terephthalate)/Polycarbonate Nanocomposites; Evaluation of Mechanical Properties of Filled Epoxy Composite for Improving Mould Performance - A Review Metallic Biomaterials for Medical Implant Applications: A Review Effect of Loading Rate on Indentation Behaviour of Fibre Metal Laminates Based on Kenaf/Epoxy; On the Application of Well Stimulation Method in Improvement of Oil Recovery; Synthesis and Characterization of Low-Cost Porous Carbon from Palm Oil Shell via K <sub>2</sub> CO <sub>3</sub> Chemical Activation Process; An Expert System Based on a Hybrid Multi-Criteria Decision Making Method for Selection of Non-Conventional Machining Processes; Computer Aided Design and Analysis of Conical Forming

Dies Subjected to Blast Load

Tensile Properties and Morphology of Polylactic Acid (PLA)/Ethylene Vinyl Acetate (EVA) Tensile Properties and Morphology of Polyamide 6 (PA6)/Ethylene Vinyl Acetate (EVA)/Sepiolite Nanocomposite; Performance Comparison between Dry and Nitrogen Gas Cooling when Turning Hardened Tool Steel with Coated Carbide; Effect of Compatibilizer Content on the Mechanical and Morphological Properties of PET/PP (70/30) Blends; Major Hazards of Process Equipment Failures in the Chemical Process Industry; Comparison on Section Properties and Flexural Behaviour for Cold-Formed Steel Built-Up Section CFD Simulation of Air Temperature inside a Bus Passenger Compartment Sustainable Manufacturing in Injection Molding: Development of Energy Map; Chapter 2: Structural Engineering, Construction and Building Materials, Construction Project Management and Safety; Safety and Health in Refurbishment Works Including Partial Demolition; Evaluation of Coupling Beams Behavior Concrete Shear Wall with Rectangular and Octagonal Openings; Determining the Causes of Delay by Using Factor Analysis in Tehran's Construction Projects; A Simple Algorithm to Assess Structural Performance by PBS Method Performance of Iron Ore Tailings as Partial Replacement for Sand in Concrete Flexural Strengthening of Structural Timber in the 21st Century: A State of the Art Review; Correlation of Stiffness and Natural Frequency of Precast Frame System; The Impact of Metakaolin on Early Days Strength of Nanotechnology Modified Sandwich ECC; Investigation the Behavior of a Four-Storey Steel Frame Using Viscous Damper; Performance Appraisal Amongst Contractors in Construction Project in Malaysia; Density Currents Dynamics over Rough Beds Environmental Loss Assessment for Gas Pipeline Failure by Considering Localize Factors Using Fuzzy Based Approach

Sommario/riassunto

Collection of selected, peer reviewed papers from the 5th International Graduate Conference on Engineering, Science & Humanity (IGCESH 2014), August 19-21, 2014, Skudai, Malaysia. The 62 papers are grouped as follows: Chapter 1: Advanced Materials, Manufacturing Technologies and Engineering, Equipment; Chapter 2: Structural Engineering, Construction and Building Materials, Construction Project Management and Safety; Chapter 3: Environmental Engineering and Processes Technology, Eco-Friendly Materials, Water Management and Hydrology; Chapter 4: Energy Efficient and Energy Saving, Energy Managem