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Material Science and Engineering Technology II; Preface, Committees and Sponsor; Table of Contents; Chapter 1: Composite Materials; Fibrous Cerium (IV) Hydrogen Phosphate Membrane Self-Supported Benzimidazole Polymerization Agent; Polystyrene/Lamellar Germanium Phosphate Nanocomposite Membranes; Influence of Tool Geometry and Contact Condition on Friction Stir Welding of Al-Cu Laminated Composites; Ultrasound Assisted Synthesis of Visible Light Responsive Nitrogen Doped TiO<sub>2</sub> Nano Photocatalyst; Epoxy Emulsion Modified Engineered Cementitious Composite for Enhanced Pipeline Coating Study on the Dense-Packing Effect and Properties of Multi-Component Cementitious Material; Machinability of Short Potassium Titanate Fiber Reinforced Aluminum Alloy Composites Fabricated by Squeeze Casting; Chapter 2. Chemical Materials and Technologies; The Effect of Silver and Silver-Platinum Doped Into 5A Zeolite on the Degradation of Naphtalam; Preparation and Characterization of Au/Al<sub>2</sub>O<sub>3</sub> and Au-Fe/Al<sub>2</sub>O<sub>3</sub> Materials, Active and Selective Catalysts in Oxidation of Cyclohexene; In Situ Growth of Zinc Oxide Nanoparticles on Cotton Fabric Using Sonochemical Method Effect of Cold Rolling on Sensitization of 304 Stainless Steel Weldments; Synthesis, Characterization and Evaluation of Property Profile of Hybrid Ion- Exchanger; Preparation and Characterization of Activated Carbons Based on Lignocellulosic Residues; Experimental and Numerical Study of Plain-Woven Aramid Fabric; Preparation of Three Dimensional Products Using Flow Deformability of Wood Treated by Small Molecular Resins; Epoxidized Vegetable Oil as a Sustainable Ingredient in Welding Electrode Coatings; Contact Width Analysis of Corrugated Metal Gasket Based on Surface Roughness Experimental Investigation on Nanofluids Effectiveness on Heat Transfer in Oscillating Heat Pipe; Deposition and Characterization of Electroless Ni-P/Ni-W-P Duplex Coating Using Electrochemical Impedance Spectroscopy; Experimental Study of Surface Roughness of Wood Plastic Composites after Turning; Utilization of Sulfur Waste from Petroleum Refinery for Sulfur Concrete; Conductivity and Transport Properties Study of Plasticized Carboxymethyl Cellulose (CMC) Based Solid Biopolymer Electrolytes (SBE) Biosurfactant Producing Bacteria with Tensioactive and Emulsifying Properties Isolated from Palm Oil Mill Effluent; Enhanced Adsorption of Pb(II) on Chemically Treated Neem (*Azadirachta indica*) Leaf Powder; Chapter 3: Modelling and Analysis of Materials Properties and Technologies; Numerical Analysis of Nanoscale Junctionless MOSFET Including Effects of Hot-Carrier Induced Interface Charges; Cutting Simulations and Experiments of Milled SiC Particle-Reinforced Aluminum Matrix Composites; Validation of Nitinol SMA Characteristics Using Finite Element Analysis and Closed Form Solutions Optimization of Process Parameters of Diffusion Bonding of Titanium with Titanium and Titanium with Copper

Collection of selected, peer reviewed papers from the 2013 2nd International Conference on Material Science and Engineering Technology (ICMSET 2013), November 16-17, 2013, London, United Kingdom. The 72 papers are grouped as follows: Chapter 1: Composite Materials; Chapter 2: Chemical Materials and Technologies; Chapter 3: Modelling and Analysis of Materials Properties and Technologies; Chapter 4: Nanomaterials and Nanotechnologies; Chapter 5: Advances in Energy Technology; Chapter 6: Applied Mechanics and Mechanical Engineering