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Photoelectric Characteristics of ZnO Nanowires Grown on AZO Thin Film; Comparative Evaluation of Different Methods for Preparation of SiO₂/Epoxy Nanocomposite; Influence of Magnetoelastic Anisotropy on Properties of Nanostructured Microwires; Distribution Time of Gold Nanoparticles Pass through the Solid State Nanopore in Deionized Water; Synthesis of Silver Nanowire Using a Template Wetting Process; Synthesis and Characterization of Nanocrystalline MgO for Optical Applications Using Sol-Gel Method; Optimal Processing for Hydrophobic Nanopillar Polymer Surfaces Using Nanoporous Alumina Template

Using Modified Creep and Recovery Tests to Evaluate the Foam-Based Warm Mix Asphalt Contained Nano Hydrated Lime; Hybrids of Graphenes and Silver Nanoparticles Prepared by In Situ Process Employing Microwave Irradiation; The Morphologies of Pt Decorated on PANI Membrane and Effects on Glucose Biosensor; Silver Metal Pattern Fabrication on a Glass Substrate Using a Conformal Contact Printing;

Chapter 3: Advanced Mechanical Engineering and Mechatronics Application; Configuration Evaluation of Printing Machine Based on Intuitionistic Fuzzy Entropy and TOPSIS

Iterative Detection Scheme for Turbo-BLAST System with Adaptive Power Allocation in the Presence of Channel State Information Imperfection; Comparison of Human Jogging and Walking Patterns Using Statistical Tabular, Scatter Distribution and Artificial Classifier; Direct Torque Control Using Fuzzy and Neural as Switching Vector Selector for Doubly Fed IM; Kinematics Analysis and Design of a Novel Robot Shoulder Joint; Analysis of Static and Optimization of Structural Parameters for a Novel Leg Mechanism

Primary Methods of Decreasing the Pollutant Emissions in an Industrial Furnace of Liquid Fuel of 100 MW

Sommario/riassunto

The volume contains selected, peer reviewed papers from the 2012 International Conference on Nano Materials and Electric Devices (ICNMED 2012), December 19-20, 2012, Hong Kong. The papers are grouped as follows: Chapter 1: Material Science Engineering and Technology; Chapter 2: Nano Materials and Technologies; Chapter 3: Advanced Mechanical Engineering and Mechatronics Application; Chapter 4: Electric and Magnetic Engineering, Electronics and Information Technology Application.
