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Nota di contenuto	Advanced Materials & Sports Equipment Design; Preface and Organizing Committee; Table of Contents; Chapter 1: Materials and their Application; Comparison of Effective Thermal Conductivity of Hollow Fibers by Prediction Models and FE Method; Structural State and Mechanical Characteristics of the ZrN Films Prepared by Sputtering; Rheological Fluids for Energy Absorbing Systems; Preparation and Characterization of Poly(lactic acid) with Different Molecular Weights by Thermal Hydrolysis; Influence of Stark Effect and Quantum Wells Thickness on Optical Properties of InGaN Laser Diodes Stepwise Inhibition Effect of Multinitroxyl Radicals on Styrene Polymerization Experimental Investigation of Nano-Composite Coated Stainless Steel (316L) Surfaces under Unidirectional Sliding; Comparison of Machinability of Glass/Jute Fabric Polymer Composites; Preparation and Actuation of Electro-Active Artificial Muscle Based on Sulfonated SEBS; Synthesis of the Mono-Disperse Magnetic Cross-Linked Composite Micro-Spheres Containing the Functional Group; The Study

of New Type of Double Metal Nanofluids Suspension Stability; Study on Optical Properties of Carbon Nanoparticles
VOCs Sensing Property of Graphene Oxide Thin Film by Reduction Rate
The "Black Revolution" of Sports Equipment: Application of Carbon Fiber Reinforced Plastics (CFRP); Analytical Test Methods Used to Characterize Granular Composite Sport Surface Materials; Correlation of Fe-Rich Defect Centre and Minority Carrier Lifetime in p-Type Multicrystalline Silicon; Wear Behavior of Zirconium Oxide (ZrO₂) Coating over the Surface of Electro Less Nickel Plating on Tool Steel Substrate; Stress and Strain Characteristics of Aluminum Equal Channel Angular Pressing
Recovery of Valuable Metals from Spent Hydrogenation Catalysts
Aluminum Lithium Alloys (Al-Li-Cu-X)-New Generation Material for Aerospace Applications; Decay of Phosphorescent Warning Design on Textile Substrates; Chapter 2: Biochemistry and Medicine; A Research of the Microfluidic Cell Chip Technology to Reduce Urine Cells Overlap Rate; Microwave Assisted Extraction, Chemical Components and Antibacteria Activity Study of Thymus monoglicus Ronn Essential Oil; The Application of RFID in the Field of Medical Circulation; Comparing 3 Different Foot Models for Ankle Joint Motion during Gait
The Effect of Heart Rate Variability on Exercise Training Post-Cardiac Surgery
Chapter 3: Engineering Research; Outer Conductor Inner Diameter Measuring System of Coaxial Transmission Line; Forced Vibration Behavior of Self-Piercing Riveting Joints; Numerical Studies on Laser Welding Process; Effect on Deformation in Hydroforming under Different Forming-Control Paths; The Research on Working Performance of Annular Valve Spring Based on Solidworks; Effect of Thread Helix Angle on the Axial Metal Flow of Cross Wedge Rolling Thread Shaft; Computer Aid of Mechanism Behaviour
Technological Process Design and Simulation

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2013 International Conference on Advanced Materials & Sports Equipment Design (AMSED 2013), September 21-23, 2013, Singapore. The 73 papers are grouped as follows: Chapter 1: Materials and Their Application; Chapter 2: Biochemistry and Medicine; Chapter 3: Engineering Research; Chapter 4: Development of Sport Equipment; Chapter 5: Computer Technology in Sports; Chapter 6: Applied Research in Sport.
