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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Designing of Industrial Facilities and Technologies; Preface and Committee; Table of Contents; Chapter 1: Advanced Materials; Preparation and Swelling Characteristics of Hydrogel from Microbial Low Molecular Weight Poly(-Glutamic Acid); Effect of Meso-Submissions to Electronic Structure and Optical Properties of Ruffled Si Porphyrins Relatives; Age-Hardening Behavior of Pd-Ag-Sn-In-Zn Alloy; Study on Properties of Hard Twist Cotton Yarn; Influence of Fabric Structure on Shielding Effectiveness of Anti-Electromagnetic Radiation Fabric A Molecular Dynamics Study of Fe Adatom Diffusion on Different Sized Fe Nanoparticles The Migration Behaviors of Individual Fe Adatom on Fe Nanoparticle; Preparation and Properties of Capric-Lauric-Palmitic Acid Eutectic Mixtures/Expanded Graphite Composite as Phase Change Materials for Energy Storage; The Application of New Material Development and Research in the Badminton Lines; Analysis of the Cool Bending Fracture of HRB400; Chapter 2: Material Processing Technology; Study on Data Analysis System of Multi-Information in Arc Welding

Discussion for the Calculation of Carbon Content and Heating Temperature in Austenitizing of Cast Iron DEFORM-Based Analysis and Discussion of Early Failure in Warm Extrusion Dies; Numerical Analysis of Sheet Metal Forming Limit for Local Forming; Research on the Synthesis and Characterization of a Novel Dendritic Thickening Agent; Effects of Laser Cladding Process on Cladding Layer Qualities of Nickel-Base Alloy; Prediction of Plastic Injection Shrinkage Ratio Using Grey Theory; Chapter 3: Designing and Manufacturing Technologies in Mechanical Engineering

Pre-Stressed Modal Analysis of the Shaft Based on ANSYS Workbench Research on Influencing Factors of Manufacturing Listed Companies' Working Capital Policy in China; Stability Analysis of Rectangular Thin Walled Structure under Nonlinear Distributed Stress; Testing Methods Selection for X-Ray Radiation Performance Index of Micro-Dose X-Ray Transmission Body Scanner; Design and Research of Synchronous-Style Clamping Mechanism for Cable-Detecting Robot; Study on Rigidity of Aluminum Alloy Portal-Type Frame Based on Finite Element Method; Fuzzy Yield Index for Optimal Tool Replacement Policy Reliability Modeling on Time between Failures of NC Machine Tools Performance Comparison of the Fabricated Planet Carrier and the Integral Planet Carrier; Numerical Analysis of Elastic Rod Boundary Conditions; Damage Detection Using Lamb Waves (Review); Research on Health Status and the Human Factors and Environmental Parameters of Special Equipment Maintenance Decision; Chapter 4: Automation and Mechatronics; The Chopping Voltage Regulation System Based on PLC Control; The Research on the Error Correcting Method for Acoustic Measurement the Missing Distance of Moving Areal Target Control Strategy Used on UAV Motion System

Sommario/riassunto

Collection of selected, peer reviewed papers from the 2014 2nd World Congress on Industrial Materials Applications, Products, and Technologies (WCIM 2014), July 7-8, 2014, Beijing, China. The 66 papers are grouped as follows: Chapter 1: Advanced Materials, Chapter 2: Material Processing Technology, Chapter 3: Designing and Manufacturing Technologies in Mechanical Engineering, Chapter 4: Automation and Mechatronics, Chapter 5: Building Materials and Construction Technology, Chapter 6: Product Design, Chapter 7: Agriculture and Food Industry
