

1. Record Nr.	UNINA9910464240403321
Titolo	Advanced design and manufacturing technology I : special topic volume with invited papers only // edited by Hun Guo, Zuo Dunwen, Tang Guoxing
Pubbl/distr/stampa	Stafa-Zurich, Switzerland ; ; Enfield, New Hampshire : , : Trans Tech Publications, , [2011] ©2011
ISBN	3-03813-564-X 1-61344-672-1
Descrizione fisica	1 online resource (308 p.)
Collana	Advanced materials research, , 1022-6680 ; ; volume 142
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Disciplina	620/.0042
Soggetti	Engineering design - Data processing Manufacturing processes - Data processing Computer integrated manufacturing systems Manufacturing processes - Automation CAD/CAM systems Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Preface -- Technology and Characteristic of Wool Ring Spun Compound Yarn -- A Co-Evolutionary Contract Net-Based Framework for Distributed Manufacturing Execution Systems -- The Research on Cutting Force in High-Speed Milling Process of Aluminum Alloy Impeller -- Research of Asynchronous Multi-Type Sensors Data Fusion -- Researcher of Region Growing Medical Image Segmentation Based on Adaboost Algorithm -- Trail Investigation on Chip of High-Speed and Dry Cutting on Hardened Steel with PCBN Tool -- Simulate Measure for Spring Back of Autobody Panel's Edge -- Reconfigurable Clamping Device Based on Memory Alloy, Orientation Disc, Majority Column and Telescopic Pole -- Analysis of Mechanical Characteristics and Structural Options of Micro-Milling Cutter -- Study on Predictive Control of Ship

Steering Gear System -- Research of Hydroforming Technology for Special-Shaped Cross-Section Pipe -- Design of CNC Grinding Machine Especially for C.V Joint Inner Race Spherical Raceway Processing -- Passivation of the Fe-Based Bulk Amorphous Alloy in HCl Solution -- Simulation of Temperature Field during 7022 Al Alloy Friction Stir Welding process Based on Dual-Source -- Study on Al-4.5Cu-3Ce Alloy Semi-Solid Slurry Prepared by Slope Vibration Casting -- Precision Control Research on DACS-Based Modern Digital Shipbuilding Technology -- Contact Stress Analysis of NCD Coating on Roll Ball of Ball Bearing -- Low Cycling Thermal Fatigue of Large-Scale Marine Diesel Engine Piston -- Study on Remote Monitoring and Control System for Construction Vehicle -- Research on New Structural Quay Container Crane -- Study on the Microstructure and Properties of Suspensory Wire in DVD CD-ROM Head -- Investigation of the Precipitation in Mg-Zr Alloys -- The Optimization of Cutting Parameter of Machining the Small Diameter Deep Hole on Austenitic Stainless Steel -- An Analysis of Drawing Process in Stamping Die Design for the Wheel Hub -- Effects of Residual Stress on Interfacial Bonding Strength of Zinc-Plated Film -- Friction and Wear of Polished Single Crystal Silicon at Different Area -- Numerical Simulation of the Machining Distortion of Aircraft Aluminum Part Caused by Redistribution of Residual Stress -- Study on Fuzzy D-S Evidence Theory Mathematics Foundation Based on the Form Prototype -- Study on the Influence of Internal Flow Field in Pipeline Elbow by the Guide Plate -- Research on Electrical Resistivity of Wood Dust -- Primary Research of Bionic Design on Tools with Mouthpart of Larvae Long Horned Beetles -- Adsorption Analysis of Cr(VI) by Fly Ash Composite Material in Aqueous Medium -- Research of Controlling Heat Treatment Deformation for Powder Metallurgy Mechanical Structural Parts -- Influence of Vacuum Heat Treatment on Sintered W-Cu Alloy Performances -- Design on Numerical Control System of Glass Cutting Machine Based on PC -- Fast Frequency Hopping Signal Generator Based on DDS -- The Optimization of Material Thickness for Neutron Shielding with Monte Carlo Method -- A Method to Measure Rotary Speed and Torque Using JC Sensors -- Different Evaluation Approaches of Confusion Network in Chinese Spoken Classification -- Study on Mine-Used Battery Locomotive Charging System -- Steel Wire Rope Section Damage Detection System Based on Wavelet Multi-Resolution Analysis -- Three-Level SVPWM Controller Design Based on FPGA -- Phase Error Immunity Optical Measurement System -- A Stable Least Squares Ellipses Fitting Algorithm Based on Zernike Moments -- Accuracy Verification Method about Optical Three-Dimensional Measuring Instrument -- Contrast Research on Cutting Forces in 4-Axis and 5-Axis Blade Machining Process -- A Method to Center Extraction of Reference Point Algorithm in Reverse Engineering -- Optimal Design of Flexible Manufacturing System Based on Optical Measurement Principle -- Material Removal for Modal Effect on Impeller Blades by Finite Element Analysis -- Rotation Inertia Measurement Device Design of Winged Rigid Body Based on TRIZ Conflict Resolving Matrix -- Development of NC System of the 3-PUU Parallel Machine Tool Based on PMAC -- Finite Element Analysis and Dynamic Testing for Hard Gear Cutting by Gear Hobbing Machine -- Design and Stimulation of Hydraulic Servo System for Vehicle Test Equipment for Rubber Shock Absorber -- Research on Chip Breaking Mechanism of High-Temperature and High-Strength Steel 2.25Cr-1Mo-0.25V -- Research on the Machinability of Hydrogenated Cylindrical Shell Materials (2.25 Cr-1Mo-0.25V Steel) -- Applied Research of the Electric Spindle Technology on Sub-Nanometer Crusher with Cellulosine -- High-Speed

Milling Toolpath Planning for Aviation Engines Impeller Using POWERMILL Software -- Finite Element Analysis of Cold Extrusion Combination Mold Interference Fit -- Coagulant Prepared by Gangue and its Application in Treatment of Coal Washing Wastewater -- Development and Oxidation of RexOy-Modified Aluminide Coating -- Design and Research on Two-Degree of Freedom Spherical Gear -- An Algorithm for Computation of Radial-Harmonic-Fourier Moments -- Applied Research on Synesthesia Theory in Industrial Design.

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Sommario/riassunto

"The major topics covered by the special volumes include manufacture and production, engineering materials, CAD/CAM/CAE, robotics, automation and control, environment-friendly design and manufacture, web/internet technologies, artificial intelligence and smart computing in design and manufacture, enterprise, management, and other related topics"--Preface.

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