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Altri autori (Persone)	WangYongguo
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Nota di contenuto	Advanced Manufacturing Technology and Cutting Tools; Preface, Committees and Sponsors; Table of Contents; Study on the Surface Delamination in Milling Carbon Fiber Reinforced Plastic with PCD Tool; Precision Machining for Thin Wall Spherical Shell Based on Magneto-Rheological Fluids Strengthening; Accuracy Enhancement of Alignment for Five-Axis CNC Machine Tools through Touch Trigger Probes; Study on the Wear Mechanism of PCD Tools in High-Speed Milling of Al-Si Alloy; Application of Biodegradable Cutting Fluids in High Speed Turning Feasibility Study on Improving Image Motion Blur with Stroboscope for Micro Tool MeasurementInvestigation on Peaming Process of PCD Tool when Reaming Aluminium Cast Alloys; Measurement of Radial and Axial Error Motion in a High Precision Spindle; Application Study of the Aviation Structures' Machining Deformation On-Line Measurement Technology; Influences of Initial Residual Stresses on Milling Distortion for Thick Aero-Aluminum-Alloy Plate; Automatic Control Technology of Grinding Zone Temperature in Grinding Hardening High Speed Machining and Motion Simulating of the Indexing

Mechanism with Globoidal CamMQL Application in Vibration Tapping; Application of Taguchi Method in Vibration Tapping Process; Equivalent Conversion Calculation of Straight Bevel Gear's Mesh Stiffness; FEM Simulation Analysis of Cross Wedge Rolling Process; Analysis of Radial Rigidity about the Hydraulic Expansion Toolholder; Optimized Face Gear and its Bending Stress Analysis; Modeling Analysis of Micro-Burr Formation; The Performance Research of Automobile Disc Brake Based on Finite Element Technology
Terminal Sliding Tracking Control of Piezoelectric ActuatorsDynamic Display of Industrial Furnace Products Based on the Technology of Virtual Reality; Mechanical Properties of Nano-Indentation of Diamond Coating in Infrared Window; Design and Realization of the Intelligent Scheduling and Management System of Transmission Lines; Performance Research of VW-1-011 Type Ball and Cage Universal Joint; Relative Position and Attitude Determination for Robotic Mars Soft Landing Using Multi-Point Laser Rangefinder; Experimental Study on Ball End Finishing Milling the Inclined Surface of Hardened Steel Testing Extrusion Flow Stress and Friction Factor via Inverse AnalysisKeywords Index; Authors Index

Sommario/riassunto

China is the world's largest market for machine- and cutting-tools, so advanced manufacturing technology and cutting tools can be expected to enjoy not only a good market share but also huge opportunities for development and advancement. The present volume contains 28 peer-reviewed papers selected from among the 60 (from academia and industry) presented at the seminar on Advanced Manufacturing Technology and Cutting Tools (SAMTCT2011) which was held during the 20-22th August 2011 in Shanghai (China). This work presents readers with a broad overview of recent advances in the fields of manufactu