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Titolo	High speed machining VI : selected, peer reviewed papers from the 6th international conference on high speed machining (ICHSM2014), July 24-25, 2014, Harbin, China // edited by Xianli Liu [and three others]
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ISBN	3-03826-525-X
Descrizione fisica	1 online resource (890 p.)
Collana	Materials Science Forum, , 0255-5476 ; ; Volumes 800-801
Disciplina	671.35
Soggetti	High-speed machining Metal-cutting tools Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes indexes.
Nota di contenuto	High Speed Machining VI; Preface, Committees and Sponsors; Table of Contents; Chapter 1: Mechanisms and Machining Process; Research Progress of High Speed Cutting for SiCp_Al Composite Materials; Experimental Study of the Corner of Hardened Steel Mould in High Speed Milling with Micro-End Mill; Experimental Study on Surface Quality at Different Milling Speed of High Volume Fraction SiCp/Al Thin Walled Test-Piece; Research on Tool Wear of PCD Micro End Mill in Machining of ZrO2 Ceramics; The Machinability Comparison of Laser Solid Forming (LSF) and Forging TC4 Alloys Milling Forces of Compacted Graphite Iron (CGI) and Gray Iron (GI) Bioactive Film Generation during Titanium Alloy Cutting in Oxygen-Enriched Atmosphere; Investigation of Cutting Force and Tool Wear in High Speed Milling of GH4169 Using Ceramic Tools; Investigation on Processing Technology in Machining CFRP Large Size Hole; Milling Force Modeling and Experimental Research of 300M Ultra High Strength Steel; Defects Study on Drilling of Carbon Fiber Reinforced Polymer (CFRP) Laminates; Experiment on Magnetization of High-Speed Steel Cutting Tool

High Temperature Alloy of Turning Processing Characteristic and Process Analysis
Experimental Study on Orthogonal Cutting of 0° T700/LT03A CFRP Uniform Laminates; Experimental Investigation of Tool Wear and Chip Morphology in Turning Titanium Alloy Ti6Al4V; Research on the Cutting Property of Ceramic Tool Cutting Nickel Based Superalloy GH4169; Investigations on the Machinability of Titanium Alloy TC25; An Experimental Study on Optimization of Cutting Parameters for Disk Milling Titanium Blisk; Research on the Wear Process of High Speed Cutting Ni-Based Superalloy
Experiment Research on Chips Flying Characteristics for Heavy-Duty Milling
Investigation of Chip Morphology in High-Speed Milling of Nickel-Based Superalloy GH706; Study on Drilling Characteristics of Supper Alloy GH3039; Effect of High-Temperature Alloy Cutting Speed on Tool Wear; Determination of Unit Cutting Force of GH4698 Broaching; Investigation on Milling Force with Tilt Angles in Milling Cr12MoV; Application of High Speed Machining Technology in Modern Die Manufacture; Study on Force Characteristics for High Speed Sawing of Quartz Glass with Diamond Blade
Chip Formation in High-Speed Milling of Titanium Alloy with PCD Tools
Research on Wear Surface Morphology of PCBN Tools in High-Speed Machining Valve Seat Insert; Surface Roughness Prediction and Experimental Analysis in Grinding the Material of Zirconia Used by Dental Restoration; Research on Micro Machining of Slit Grating; Cutting Force Analysis in Tool Condition Monitoring of Difficult to Cut Materials; Investigation of Tool-Wear and Surface Roughness in Turning Ti6Al4V under Different Cooling Lubrication Conditions; Research on Fractal Characterization in Grinding of Monocrystal Sapphire
Experimental Study on Turning Nickel-Based Superalloy GH4033 with Coated Cemented Carbide Tools

Sommario/riassunto

Collection of selected, peer reviewed papers from the 6th International Conference on High Speed Machining (ICHSM2014), July 24-25, 2014, Harbin, China. The 160 papers are grouped as follows: Chapter 1: Mechanisms and Machining Process, Chapter 2: Modeling and Simulation of Machining Processes, Chapter 3: Machine Tools and Cutting Tools, Chapter 4: Surface Integrity of Machining Processes, Chapter 5: CAD/CAM and Process Optimization, Chapter 6: Testing, Measuring and Monitoring of Processing, Chapter 7: Micro-Machining and Non-Traditional Machining Technologies About 150 papers consider high-s
