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Nota di contenuto	Advances in Materials Processing Technologies, 2006; Preface; Table of Contents; Advances in Material Processing Technologies; A Heuristic Approach for Decision-Making on Assembly Systems for Mass Customization ; A New Method for Determining the Chip Geometry in Milling; Analysis and Validation of Cutting Forces Prediction Models in Micromachining; Analysis of Stress and Strain in the Equal Channel Angular Drawing Process; Analysis of the Behaviour Effect of Face Cutting Edge Inserts on Surface Roughness when Milling Steels with MQL Lubrication A Parametric Model for the Straightness Deviation in the Cutting Processes of Aluminum Alloys Avoiding Instability on the Milling of Parts with Thin Features; Calculation of Reference Cutting Force as a Criterion of Rough Milling Using FEM Analysis; Comparative Study of the Machinability of a Sintered Steel and a Nodular Graphite Iron Using a Constant Axial Force Drilling Test ; CVD Diamond Coatings for Machining; Design of a Computer Vision System to Estimate Tool Wearing; Design of Optimum Planetary Electro Discharge Machining Strategies Dry Drilling of Fiber Metal Laminates CF/AA2024. A Preliminary StudyEffect of Tool Electrode Material on the Spark Erosion of Micro

Grooves; Experimental Methodology Destined to Establish the Frequency Response Function (FRF) between a Dynamic Force and the Signals Emitted by a Piezoelectric Dynamometer ; Failure Prediction in Stretched Sheets of Aluminium 2024-T3; Feature Selection for Tool Condition Monitoring in Turning Processes; Fixture Design Process Automation for Coordinate Measuring Machines: A Knowledge-Based Approach
Growth Kinetics of Hardened Layers Produced during Nitriding in Ammonia Gas Environments High Productivity Machining Centre Evaluation in Collaborative Engineering Environment ; Improving NC Milling Skills through Practise of Simulated Work; Influence of the Machining Parameters on Workpiece Roundness Error during Turning Operations ; Investigation on the Predictive Model for Burr in Laser Cutting Titanium Alloy; Manufacturing Processes Analysis by Virtual Reality; Manufacture of Electrodes for Electro-Discharge Machining (EDM) of Complex Surfaces in Moulds
Modelling of Surface Roughness (Ra and Rq) in the EDM of Reaction-Bonded Silicon Carbide Multi-Parameter Modeling of Surface Texture in EDMachining Using the Design of Experiments Methodology; New Ceramic Abrasive Tools for Rough and Finishing Grinding in One Pass; Optimisation of Sheet Metal Bending Sequences Using Genetic Algorithms; Punch and Counterpunch Design by the Die Expansion Method in Completely Closed Die Forging; Relative Importance of Main Influence Factors In Sink Erosion (EDM) Determination; Study of Drawing Processes by Analytical and Finite Element Methods
Study of ECAE Process by Using FEM

Sommario/riassunto

Manufacturing can be considered to be the most wide-ranging, interdisciplinary and sometimes-controversial branch of Engineering. It is even sometimes difficult to define it concisely, but everybody recognises its contributions. This book reports the latest developments and original applications, theoretical research and case studies made in one of the most important contributory fields of manufacturing engineering: Materials Processing. The collection will be essential reading matter for researchers in this field and for the future development of Manufacturing: the justly termed "Engine of E
