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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 CarbideMulti-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