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	Material Characterization for Rapid Heating Rates; Effect of Electrolyte on the Surface Smoothness Obtained by Electropolishing of Stainless Steel; Effective Utilization of Rapid Prototyping Technology Experimental Analysis of Laser Micro-Machining Process ParametersFEA of the Influence of Assembly Parameters on the Fatigue Life of Metal- Composite Bolted Joints; FEM Modeling and Experimental Analysis of AA6082 Processed by ECAE; Geometry Modelling of Clads Generated by Laser Cladding; Kerf Profile Modelling in Abrasive Waterjet Milling; New Technologies for Increasing the Capacities of WEDM Machines; Numerical Analysis of the Stress/Strain Evolution in Incremental Sheet Forming and Stretch-Bending Processes; Parameter Study on Laser Surface Finishing with 2D Scan Head Shiphull Welding: Trajectory Generation Strategies Using a Retrofit Welding RobotStudy of the Proper Sintering Conditions of Anionically- Polymerized Polyamide 6 Matrices for the Fabrication of Greencomposites; Surface Topography Prediction on Laser Processed Tool Steel; Tensile Ductility of Electron Beam Welded Titanium Alloys; Theoretical Model of a Multi-Layered Polymer Coated Steel-Strip Ironing Process Using a Neural Network; Two FEM Thermal Models for Shallow and Deep Grinding: Keywords Index: Authors Index
Sommario/riassunto	This work presents the most recent Advances in Non-Conventional Materials Processing Technologies presented at the 4 th Manufacturing Engineering Society International Conference (MESIC2011), held during September 2011 in Cadiz, Spain. Here, Forming, Simulation, Laser, Water-Jet, Rapid Prototyping, WEDM, Grinding and Additive Manufacturing Technologies are, among others, the main topics to be found in this book, which is aimed especially at manufacturing engineers who work in the above fields. Review from Book News Inc.: Non conventional technologies rather than materials or processes are the