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direct nanopatterning; 5. Ion projection maskless direct nanopatterning; 7. Conclusion and Outlook; References; Micromoulding - precision processing for controlled products; Abstract; Keywords; 1. Introduction; 2. Extreme processing conditions; 3. In-process measurements

4. Product evaluations5. Materials; 6. Process technology; 6. Concluding comments; Acknowledgements; 7. References; Automatic nanohandling station inside a scanning electron microscope; Abstract; Keywords; 1. Introduction; 2. Setup of the Nanohandling Cell; 3. Control System of the Robot Cell; 4. Real-Time Visual Feedback in SEM; 5. Automatic Handling of TEM Lamellae; 6. Stereoscopic Depth Detection in an SEM; 7. Setup of the Nanocharacterization station; 8. Nanoindentation and CNT Characterization; Acknowledgments; References; Recent evolution of electrical discharge machining; Abstract

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A new technology platform for fully integrated polymer based micro optical fluidic systemsAbstract; Keywords; 1. Introduction; 2. Micro Optical Concepts; 3. Micro Fluidic Concepts; 5. Fabrication Technologies; 6. Conclusion; Acknowledgements; References; Market Studies on 4M Technologies and Applications; Market forecasts for roll-to-roll electronics manufacturing; Abstract; Keywords; 1. Introduction; 2. Silicon versus Roll-to-Roll Electronics; 3. New Markets for Roll to Roll Electronics Manufacturing; 4. Technical Path to Roll to Roll Manufacturing

5. Maintaining European Union Industry and Growth

## Sommario/riassunto

This work covers the latest state-of-the-art research results from leading European researchers in advanced micro technologies for batch processing of metals, polymers, and ceramics, and the development of new production platforms for micro systems-based products. These contributions are from leading authors at a platform endorsed and funded by the European Union R&D community, as well as leading universities, and independent research and corporate organizations. This comprehensive collection of indexed and peer reviewed articles contains a CD with search functionality.\* Contains au

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