Record Nr. UNINA9910784545503321 4M 2006 [[electronic resource]]: second International Conference on **Titolo** Multi-Material Micro Manufacture: 20-22 September 2006, Grenoble, France / / edited by Wolfgang Menz, Stefan Dimov and Bertrand Fillon; organised by FP6 4M Network of Excellence; sponsored by The **European Commission** Oxford, : Elsevier, 2006 Pubbl/distr/stampa **ISBN** 1-280-72878-7 9786610728787 0-08-046629-X Edizione [1st ed.] 1 online resource (445 p.) Descrizione fisica Altri autori (Persone) MenzW (Wolfgang) DimovS. S. <1959-> FillonBertrand Disciplina 670.42 Soggetti Microtechnology Microelectromechanical systems Lingua di pubblicazione Inglese **Formato** Materiale a stampa Monografia Livello bibliografico Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Front Cover: Second International Conference on Multi-Material Micro Manufacture: Copyright Page: Welcome Proceedings: 4M2006 Conference Committee; Sponsors; A roadmapping study in Multi-Material Micro Manufacture; Abstract; Keywords; 1. Introduction; 2.

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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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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