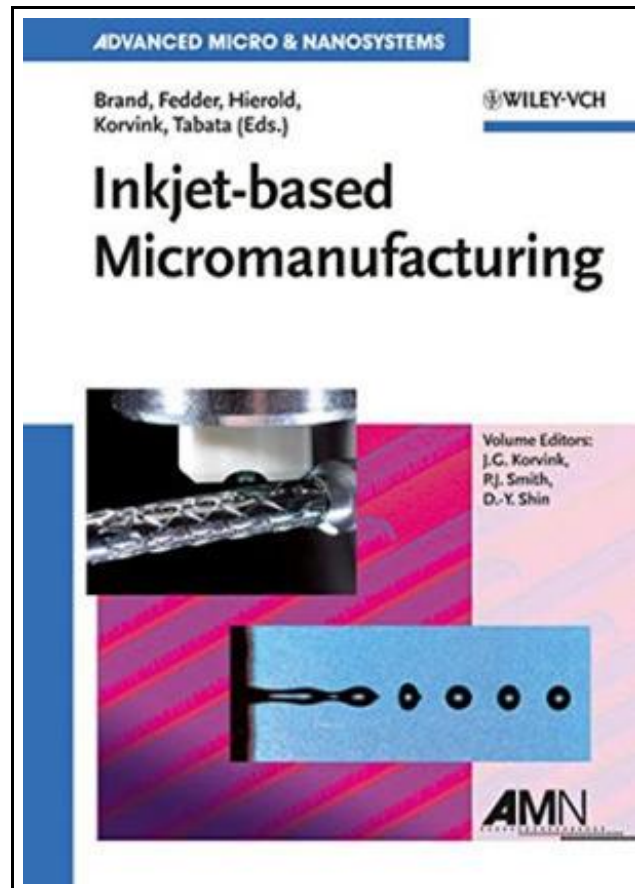


Inkjet-based Micromanufacturing



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Reviews

Extensive guideline! Its this sort of very good go through. I have got read and i am confident that i will gonna read through once more once more in the future. Once you begin to read the book, it is extremely difficult to leave it before concluding.

(Joana Champlin)

INKJET-BASED MICROMANUFACTURING



Book Condition: New. Publisher/Verlag: Wiley-VCH | A unique combination of vital yet hard-to-come-by practical knowledge in one handbook and ready reference, offering a well-balanced industrial and academic perspective. From the basics of instrumentation, via patterning and its control to system integration for applications. | Inkjet-based Micromanufacturing Inkjet technology goes way beyond putting ink on paper: it enables simpler, faster and more reliable manufacturing processes in the fields of micro- and nanotechnology. Modern inkjet heads are per se precision instruments that deposit droplets of fluids on a variety of surfaces in programmable, repeating patterns, allowing, after suitable modifications and adaptations, the manufacturing of devices such as thin-film transistors, polymer-based displays and photovoltaic elements. Moreover, inkjet technology facilitates the large-scale production of flexible RFID transponders needed, eg, for automated logistics and miniaturized sensors for applications in health surveillance. The book gives an introduction to inkjet-based micromanufacturing, followed by an overview of the underlying theories and models, which provides the basis for a full understanding and a successful usage of inkjet-based methods in current microsystems research and development

Overview of Inkjet-based Micromanufacturing: Thermal Inkjet Theory and Modeling Post-Printing Processes for Inorganic Inks for Plastic Electronics Applications Inkjet Ink Formulations Inkjet Fabrication of Printed Circuit Boards Antennas for Radio Frequency Identification Tags Inkjet Printing for MEMS | List of Contributors XIII

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