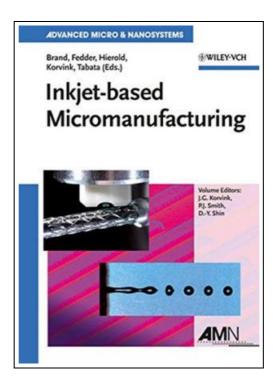
# Inkjet-based Micromanufacturing



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## INKJET-BASED MICROMANUFACTURING



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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 1 Overview of Inkjet-Based Micromanufacturing 1 David Wallace 1.1 Introduction 1 1.2 Inkjet Technology 1 1.2.1 Continuous Mode Inkjet (CIJ) Technology 2 1.2.2 Demand Mode Inkjet Technology 2 1.3 Fluid Requirements 3 1.4 Pattern Formation: Fluid/Substrate Interaction 5 1.5 Micromanufacturing 6 1.5.1 Introduction 6 1.5.2 Limitations and Opportunities in Micromanufacturing 7 1.5.3 Benefits of Inkjet in Microfabrication 8 1.6 Examples of Inkjet in Micromanufacturing 9 1.6.1 Chemical Sensors 9 1.6.2 Optical MEMS Devices 10 1.6.3 Bio-MEMS Devices 12 1.6.4 Assembly and Packaging 13...

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