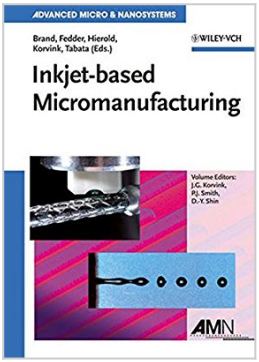

Inkjet-based Micromanufacturing, Volume 9

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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

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Editorial Review

From the Back Cover
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