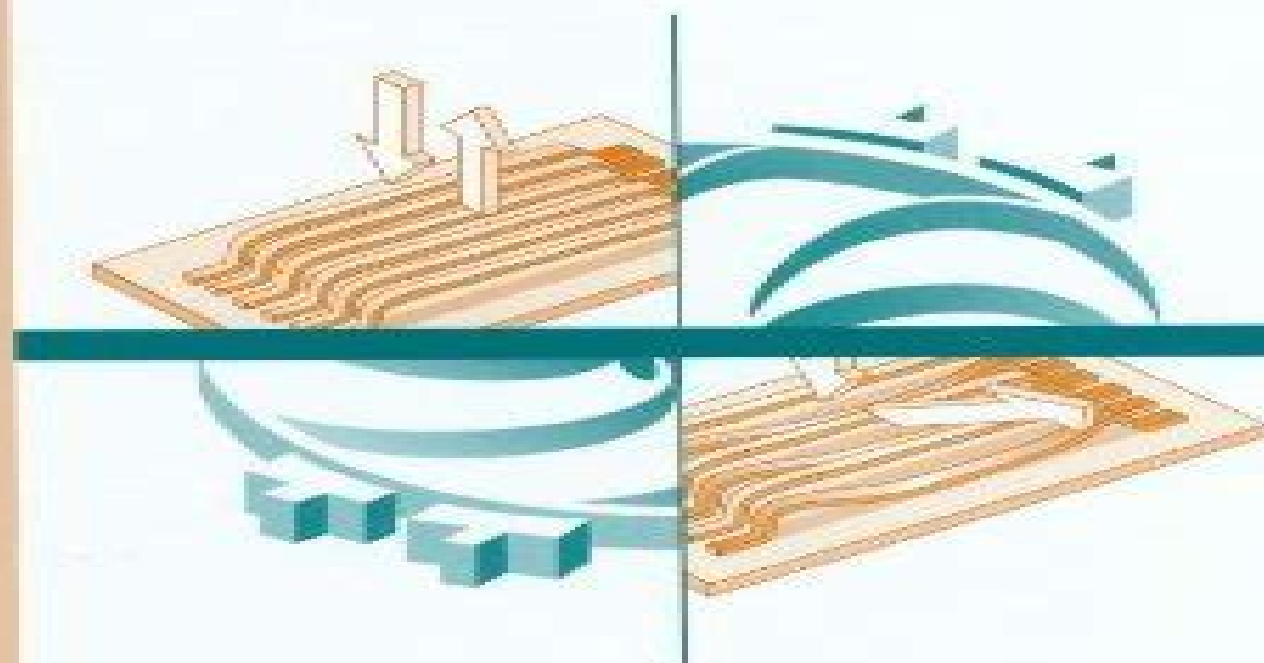


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Process Variations in Microsystems Manufacturing Michael Huff, 2020-04-09 This book thoroughly examines and explains the basic processing steps used in MEMS fabrication both integrated circuit and specialized micro machining processing steps The book places an emphasis on the process variations in the device dimensions resulting from these commonly used processing steps This will be followed by coverage of commonly used metrology methods process integration and variations in material properties device parameter variations quality assurance and control methods and design methods for handling process variations A detailed analysis of future methods for improved microsystems manufacturing is also included This book is a valuable resource for practitioners

researchers and engineers working in the field as well as students at either the undergraduate or graduate level

Microfabrication for Microfluidics Sang-Joon John Lee, Narayanan Sundararajan, 2010 Providing a definitive source of knowledge about the principles materials and process techniques used in the fabrication of microfluidics this practical volume is a must for your reference shelf The book focuses on fabrication but also covers the basic purpose benefits and limitations of the fabricated structures as they are applied to microfluidic sensor and actuator functions You find guidance on rapidly assessing options and tradeoffs for the selection of a fabrication method with clear tabulated process comparisons

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