



Highly Integrated Microfluidics Design (Integrated Microsystems)

Dan E. Angelescu

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The recent development of microfluidics has led to the concept of lab-on-a-chip, where several functional blocks are combined into a single device that can perform complex manipulations and characterizations on the microscopic fluid sample. However, integration of multiple functionalities on a single device can be complicated. This cutting-edge resource focuses on the crucial aspects of integration in microfluidic systems. It serves as a one-stop guide to understanding and applying the concepts used in the design of microfluidic systems that are highly integrated and scalable. A wide range of topics is covered, from physical concepts and fabrication techniques, to actuation and sensing functional blocks and their inter-compatibility. The book outlines the benefits and drawbacks of different approaches to microfluidic integration and provides a number of clear examples of highly integrated microfluidic systems.



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