



# Labs on Chip: Principles, Design and Technology (Devices, Circuits, and Systems)

*Eugenio Iannone*

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**Labs on Chip: Principles, Design and Technology (Devices, Circuits, and Systems)** Eugenio Iannone

**Labs on Chip: Principles, Design and Technology** provides a complete reference for the complex field of labs on chip in biotechnology. Merging three main areas— fluid dynamics, monolithic micro- and nanotechnology, and out-of-equilibrium biochemistry—this text integrates coverage of technology issues with strong theoretical explanations of design techniques. Analyzing each subject from basic principles to relevant applications, this book:

- Describes the biochemical elements required to work on labs on chip
- Discusses fabrication, microfluidic, and electronic and optical detection techniques
- Addresses planar technologies, polymer microfabrication, and process scalability to huge volumes
- Presents a global view of current lab-on-chip research and development
- Devotes an entire chapter to labs on chip for genetics

Summarizing in one source the different technical competencies required, **Labs on Chip: Principles, Design and Technology** offers valuable guidance for the lab-on-chip design decision-making process, while exploring essential elements of labs on chip useful both to the professional who wants to approach a new field and to the specialist who wants to gain a broader perspective.

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