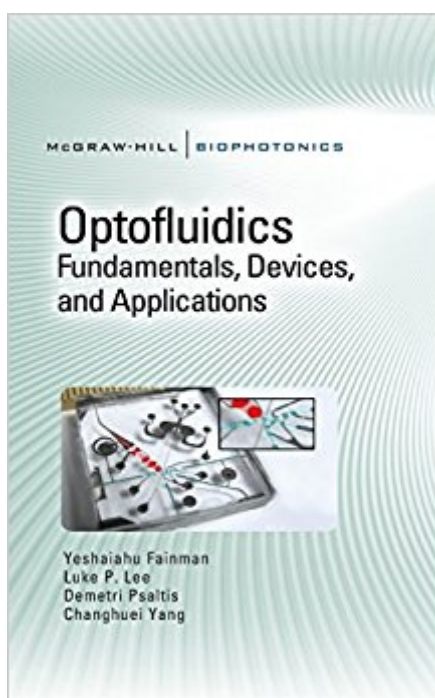


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# Optofluidics: Fundamentals, Devices, And Applications (McGraw-Hill Biophotonics)



## Synopsis

Cutting-Edge Optofluidics Theories, Techniques, and Practices Add novel functionalities to your optical design projects by incorporating state-of-the-art microfluidic technologies and tools. Co-written by industry experts, *Optofluidics: Fundamentals, Devices, and Applications* covers the latest functional integration of optical devices and microfluidics, as well as automation techniques. This authoritative guide explains how to fabricate optical lab-on-a-chip devices, synthesize photonic crystals, develop solid and liquid core waveguides, use fluidic self-assembly methods, and accomplish direct microfabrication in solutions. The book includes details on developing biological sensors and arrays, handling maskless lithography, designing high-Q cavities, and working with nanoscale plasmonics. Research outcomes from the DARPA-funded Center for Optofluidics Integration are also discussed. Discover how to:

- Work with optofluidic sources, lenses, filters, switches, and splitters
- Use dielectric waveguiding devices to input, move, and manipulate fluids
- Integrate colloidal crystals and fibers with microfluidic systems
- Develop bio-inspired fluidic lens systems and aspherical lenses
- Deploy miniaturized dye lasers, microscopes, biosensors, and resonators
- Analyze microfluidic systems using flow injection and fluorescent spectroscopy
- Build optofluidic direct fabrication platforms for innovative microstructures
- Accomplish optofluidic liquid actuation and particle manipulation

## Book Information

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## Customer Reviews

Yeshaiahu Fainman is a professor of Electrical and Computer Engineering at the University of California San Diego. Demetri Psaltis is a Professor of Optics, Dean of engineering at Ecole Polytechnique Fédérale de Lausanne. He is a fellow of the Optical Society of America and the Society for Photo-optical Systems Engineering (SPIE). Changhuei Yang is an assistant professor of Electrical Engineering and Bioengineering at Caltech.

feel good . This is the first "larger product" in our kitchen collection. Thus far (one week), it is sharp, performs well for chopping and slicing, and has excellent balance and weight. Time will tell how it retains its edge and resharpens. awesome and very well. send to my son, arrive on time.

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