



# **Microfluidics and Nanofluidics Handbook: Fabrication, Implementation, and Applications**

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# **Microfluidics and Nanofluidics Handbook: Fabrication, Implementation, and Applications**

## **Microfluidics and Nanofluidics Handbook: Fabrication, Implementation, and Applications**

The **Microfluidics and Nanofluidics Handbook: Two-Volume Set** comprehensively captures the cross-disciplinary breadth of the fields of micro- and nanofluidics, which encompass the biological sciences, chemistry, physics and engineering applications. To fill the knowledge gap between engineering and the basic sciences, the editors pulled together key individuals, well known in their respective areas, to author chapters that help graduate students, scientists, and practicing engineers understand the overall area of microfluidics and nanofluidics.

### **Topics covered include**

- Finite Volume Method for Numerical Simulation
- Lattice Boltzmann Method and Its Applications in Microfluidics
- Microparticle and Nanoparticle Manipulation
- Methane Solubility Enhancement in Water Confined to Nanoscale Pores

**Volume Two: Fabrication, Implementation, and Applications** focuses on topics related to experimental and numerical methods. It also covers fabrication and applications in a variety of areas, from aerospace to biological systems. Reflecting the inherent nature of microfluidics and nanofluidics, the book includes as much interdisciplinary knowledge as possible. It provides the fundamental science background for newcomers and advanced techniques and concepts for experienced researchers and professionals.



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