



Microfluidics and Nanofluidics Handbook: Chemistry, Physics, and Life Science Principles (Microfluidics and Nanofludics Handbook)

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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

- Cell Lysis Techniques in Lab-on-a-Chip Technology
- Electroics in Electrochemical Energy Conversion Systems: Microstructure and Pore-Scale Transport
- Microscale Gas Flow Dynamics and Molecular Models for Gas Flow and Heat Transfer
- Microscopic Hemorheology and Hemodynamics

Covering physics and transport phenomena along with life sciences and related applications, **Volume One: Chemistry, Physics, and Life Science Principles** provides readers with the fundamental science background that is required for the study of microfluidics and nanofluidics. Both volumes include as much interdisciplinary knowledge as possible to reflect the inherent nature of this area, valuable to students and practitioners.

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