



Methods in Bioengineering: Biomicrofabrication and Biomicrofluidics (Artech House Methods in Bioengineering Series)

Jeffrey D. Zahn

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Written and edited by recognized experts in the field, the new Artech House Methods in Bioengineering series offers detailed guidance on authoritative methods for addressing specific bioengineering challenges. Offering a highly practical presentation of each topic, each book provides research engineers, scientists, and students with step-by-step procedures, clear examples, and effective ways to overcome problems that may be encountered. Microfluidics promises to transform the field of medicine by dramatically changing the ways in which diagnostics and clinical research are conducted in hospitals and laboratories. This unique volume presents leading-edge microfluidics methods used to handle, manipulate, and analyze cells, particles, and biological components (e.g., proteins and DNA) for microdiagnostics. The authors offer clear and detailed guidance on:

Microfabrication techniques utilized to create microfluidic devices and on-chip flow control and mixing Microsystems;

Protein and DNA handling devices for electrophoretic and isoelectric separations in microchromatography columns;

Microfluidic manipulations of droplets via electrowetting and particles via dielectrophoresis for separations and chemical reactions;

Integrated optical characterization of microfluidic devices;

Controlling chemical gradients within devices;

Microimmunoassay diagnostics;

Multiphase microfluidics used in droplet formation for controlled chemical reactions;

Particle separation and analysis in Micro-FACS systems;

Flow characterization techniques in microfluidic devices;

Patterning and utilizing cytoskeletal filaments and cellular transport protein within microstructures.

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