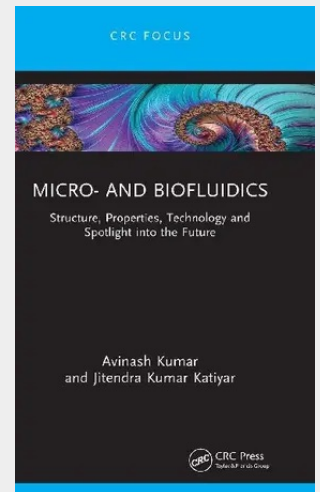


## Micro- and Biofluidics

Structure, Properties, Technology and Spotlight into the Future

The main objective of this book is to understand and manipulate the physical, chemical, and biological processes that occur in microscale fluidic systems. It explains microfluidics and biofluidics and their application to innovative design and computational intelligence methods used for solving nonlinear problems of engineering. It also covers new evolving trends in engineering related to green technologies, biomedical devices, computer-aided design, smart manufacturing, artificial intelligence systems, and sustainability. The book adopts a balanced approach between academic research and industrial applications. Features: - Includes design and fabrication of microfluidic devices and systems for biological and medical applications. - Investigates physical properties and behavior of fluids at the microscale level. - Covers the development of microfluidic sensors and actuators for medical and environmental monitoring. - Studies fluid dynamics in biological systems. - Reviews tribological analysis of microfluidic and biofluidic devices for medical applications. This book is aimed at researchers and graduate students in fluid dynamics, mechanical engineering, and bioengineering.

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