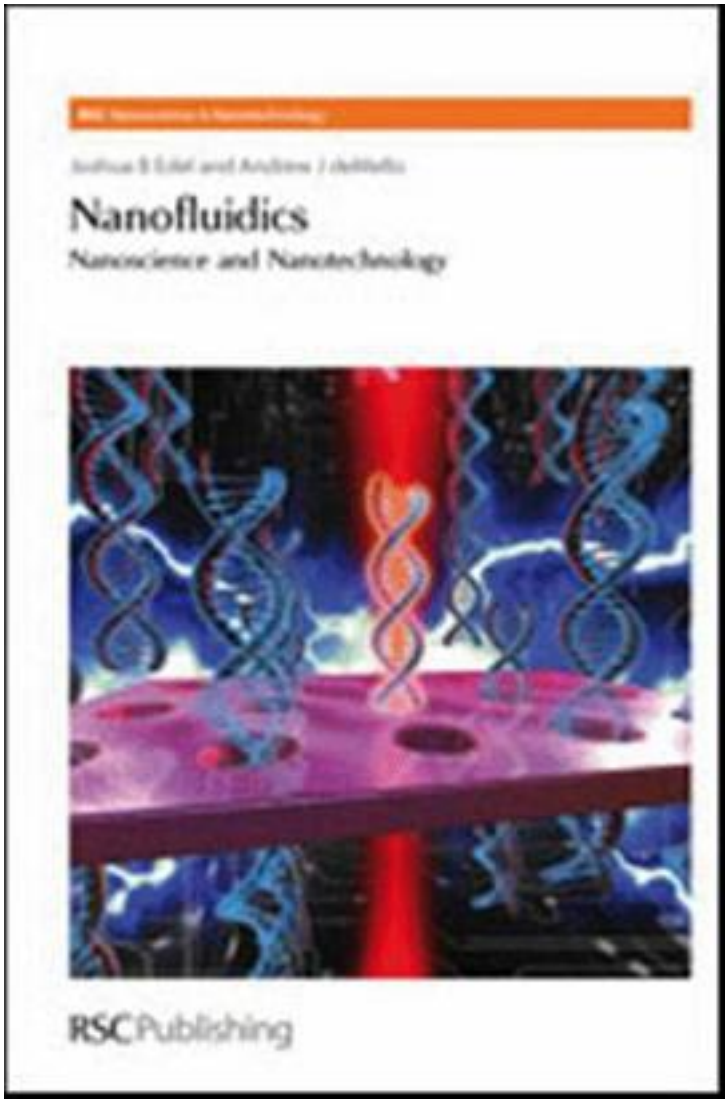
Nanofluidics



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In his now celebrated lecture at the 1959 meeting of the American Physical Society, Richard Feynman pondered the potential of miniaturization in the physical sciences. His vision, based on known technology, examined the limits set by physical principles and proposed a variety of new nano-tools including the concept of "atom-by-atom" fabrication. In the intervening decades, many of these predictions have become reality. In particular, the development and application of nanofluidics is becoming a competitive and exciting field of research. These nanoscale analytical instruments employ micromachined features and are able to manipulate fluid samples with high precision and efficiency. In a fundamental sense, chip-based analytical systems have been shown to have many advantages over their conventional (larger) analogues. Despite the growth of this field, there are surprisingly few books dedicated to nanofluidics. This book will fill the gap in the literature for a text focusing on bioanalytical applications. Written at a level accessible to experts and non-experts alike, it has the potential to become a mainstream text book for advanced nanobiotechnology courses within academic institutions.

作者介绍:

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