



Micro and Nano Manipulations for Biomedical Applications


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This single authoritative volume takes bio-device research and development to the next level, covering the latest advances in biomedical micro-electro-mechanical systems (Mems) and nano-electro-mechanical systems (Nems). This applications-focused book covers everything from fundamental mechanics of microactuators, to the most recent breakthroughs in the bio-manipulation and actuation of cells and genes. This trail-blazing work brings you up to speed on the synthesis and use of metallic nanoparticles in bio-sensing and drug delivery applications, including quantum dots-semiconductors nanocrystals-with their unique electronic and optical properties. It then explores the latest advances in micro and nano manipulation techniques, including manipulators and endoscopes for microsurgery, nano-based optical in-vitro and in-vivo imaging diagnostics, targeted delivery and guided therapy, optical trapping of subcellular components, and optical nano-surgery of subcellular components. Coverage also includes dielectrophoretic methods for biomedical applications, as well as hardware, software, and control issues involved with micro and nano precision robotic systems for cell manipulations and injections. A final section explores state-of-the-art dynamic modeling and analysis for gene manipulations. Showcasing the work of leading international experts and exhaustively referenced, this comprehensive and far-reaching volume helps you achieve greater success in the manipulation, control, modeling, and simulation of bio-devices at the micro and nano scale.

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