



Life Science Automation Fundamentals and Applications (Bioinformatics & Biomedical Imaging)

Mingjun Zhang, Bradley Nelson, Robin Felder

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Automation is facilitating incredible breakthroughs in everything from healthcare, pharmacology, and biotechnology to nanotechnology and genomics. Automation developers, scientists, and technicians need an increasingly sophisticated understanding of both the biological sciences and the engineering involved, and this comprehensive resource is the first interdisciplinary work that truly delivers. After a solid grounding in life science and automation engineering essentials, this indispensable resource describes state-of-the-art techniques for the design and development of sensors and actuators, lab-on-a-chip and bio-MEMs platforms, DNA and protein microarray fabrication automation, and drug delivery automation. It then demonstrates how these tools can be successfully integrated in larger-scale automation systems in areas like bio-instrumentation, cell and tissue manipulation, and laboratory automation.

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