Micro Process Engineering: Fundamentals, Devices, Fabrication, and Applications (Advanced Micro and Nanosystems)

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This edition of 'Micro Process Engineering' was originally published in the successful series 'Advanced Micro & Nanosystems'.
Authors from leading industrial players and research institutions present a concise and didactical introduction to Micro Process Engineering, the combination of microtechnology and process engineering into a most promising and powerful tool for revolutionizing chemical processes and industrial mass production of bulk materials, fine chemicals, pharmaceuticals and many other products.

The book takes the readers from the fundamentals of engineering methods, transport processes, and fluid dynamics to device conception, simulation and modelling, control interfaces and issues of modularity and compatibility. Fabrication strategies and techniques are examined next, focused on the fabrication of suitable microcomponents from various materials such as metals, polymers, silicon, ceramics and glass.
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