

Micro Process Engineering

V. Hessel, A. Renken, J. C. Schouten,
and J. Yoshida (Eds.)

©WILEY-VCH

Micro Process Engineering

A Comprehensive Handbook



[Micro Process Engineering 下载链接1](#)

著者:Kockmann, Norbert 编

出版者:Wiley-VCH

出版时间:2006-04-17

装帧:Hardcover

isbn:9783527312467

Advanced Micro and Nanosystems (AMN) provides cutting-edge reviews and detailed

case studies by top authors from science and industry, covering technologies, devices and advanced systems from the micro and nano worlds, which together have an immense innovative application potential that opens up with control of shape and function from the atomic level right up to the visible world without any technological gaps. In this topical volume, 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. The book concludes with actual applications and operational aspects of micro process systems, giving broad coverage to industrial efforts in America, Europe and Asia as well as laboratory equipment and education.

作者介绍:

目录:

[Micro Process Engineering 下载链接1](#)

标签

评论

[Micro Process Engineering 下载链接1](#)

书评

[Micro Process Engineering 下载链接1](#)