

Microreactors. New Technology for Modern Chemistry

Description: Tiny devices with huge potential!

New concepts of chemical synthesis have led to an increasing demand for miniaturization and more complex systems. Microreaction technology is a hot topic as it opens completely new possibilities for chemical engineering, combinatorial chemistry, and biotechnology. Small, inexpensive, independent, and versatile devices ensure many reactions achieve maximum selectivity, minimum waste, minimum investment, a better control of the process, safe manufacture and production on demand – to create a more efficient process.

This book outlines the fabrication techniques of microfluidic components, unit operations of micro-chemical engineering and current world-wide activities. Requirements with respect to needs of the chemical industry have been included.

Chemists, chemical engineers, biotechnologists, process engineers, microsystem technologists in the chemical and pharmaceutical industry and academia, as well as manufacturers of analytical instruments, will find this book a state-of-the-art review of this extremely interesting and rapidly developing field.

Contents: State of the Art of Microreaction Technology

- Modern Microfabrication Techniques for Microreactors
- Micromixers
- Micro Heat Exchangers
- Microseparation Systems and Specific Analytical Modules for Microreactors
- Microsystems for Liquid Phase Reactions
- Microsystems for Gas Phase Reactions
- Gas/Liquid Microreactors
- Microsystems for Energy Generation
- Microsystems for Catalyst and Material Screening
- Methodology for Distributed Production
- References

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