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Titolo	Chemical micro process engineering [[electronic resource]] : fundamentals, modelling, and reactions / / Volker Hessel, Steffen Hardt, Holger Lowe
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Nota di contenuto	Chemical Micro Process Engineering; Preface; Contents; List of Symbols and Abbreviations; 1 A Multi-faceted, Hierarchic Analysis of Chemical Micro Process Technology; 1.1 Micro-reactor Differentiation and Process Intensification; 1.1.1 Structure or Being Structured? Miniature Casings and Micro Flow; 1.1.2 Symmetry and Unit Cells; 1.1.3 Process Design Dominates Equipment Manufacture and Choice; 1.1.4 Micro-reactor and Chemical-micro-processing Differentiation; 1.1.5 Numbering-up; 1.1.5.1 Progressive Increase in Capacity by Addition of Modules 1.1.5.2 Internal vs. External Numbering-up: Scaling-out of Elements or Devices1.1.5.3 Issues to be Solved; Problems to be Encountered; 1.1.5.4 Limits of Mini- and Micro Plants for Scale-up; 1.1.5.5 First Large-capacity Numbered-up Micro-flow Devices Reported; 1.1.5.6 First Complete Test Station for Multiple-micro-reactor testing; 1.1.6 Process Intensification; 1.1.6.1 Definitions; 1.1.6.2 Matching Fluidics to Physico-chemical Requirements of a Reaction; 1.1.6.3 Relationship of and Difference between of PI and Micro-reaction Technology 1.1.6.4 Process Intensification Achieved by Use of Micro Reactors1.1.7

Sommario/riassunto

Micro process engineering is approaching both academia and industry. With the provision of micro devices and systems by commercial suppliers, one main barrier for using these units has been eliminated. More and more they become familiar, thereby being one facet of the upheaval in chemical industry.This book focuses on processes rather than on devices: what is 'before' and 'behind' micro device fabrication. A comprehensive and detailed overview is given on:- A multi-faceted, hierarchic analysis of chemical micro process technology- Modelling and simulation of micro reactors- Liq

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