Record Nr. UNINA9911020265103321 Chemical micro process engineering: processing and plants / / Volker **Titolo** Hessel ... [et al.] Pubbl/distr/stampa Weinheim;; [Great Britain],: Wiley-VCH, c2005 **ISBN** 9786610520930 9781280520938 1280520930 9783527603589 3527603581 9783527606276 3527606270 Descrizione fisica 1 online resource (683 p.) Altri autori (Persone) HesselVolker Disciplina 660.28 Soggetti Microchemistry Chemical processes Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Chemical Micro Process Engineering; Contents; Preface; Abbreviations and Symbols: 1 Mixing of Miscible Fluids: 2 Micro Structured Fuel Processors for Energy Generation; 3 Catalyst Screening; 4 Micro Structured Reactor Plant Concepts; Subject Index Sommario/riassunto Micro process engineering is approaching both academia and industry. With the provision of micro devices, systems and whole plants by commercial suppliers, one main barrier for using these units has been eliminated. This book focuses on processes and their plants rather than on devices: what is 'before', 'behind' and 'around' micro device fabrication - and gives a comprehensive and detailed overview on the micro-reactor plants and three topic-class applications which are mixing, fuel processing, and catalyst screening. Thus, the book reflects the current level of development from 'micro-rea