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Nota di contenuto	Microreactors in Organic Synthesis and Catalysis; Contents; Preface; List of Contributors; 1 Fabrication of Microreactors Made from Metals and Ceramics; 1.1 Manufacturing Techniques for Metals; 1.1.1 Etching; 1.1.2 Machining; 1.1.3 Generative Method: Selective Laser Melting (SLM); 1.1.4 Metal-Forming Techniques; 1.1.5 Assembling and Bonding of Metal Microstructures; 1.2 Ceramic Devices; 1.2.1 Joining and Sealing; References; 2 Fabrication and Assembling of Microreactors Made from Glass and Silicon; 2.1 How Microreactors are Constructed; 2.2 Glass as Material; 2.3 Silicon as Material 2.4 The Structuring of Glass and Silicon2.5 Structuring by Means of Masked Etching in Microsystems Technology; 2.6 Etching Technologies; 2.6.1 Anisotropic (Crystallographic) Wet Chemical Etching of Silicon (KOH); 2.6.2 Isotropic Wet Chemical Etching of Silicon; 2.6.3 Anisotropic Dry Etching of Silicon; 2.6.4 Isotropic Wet Chemical Etching of Silicon Glass; 2.6.5 Photostructuring of Special Glass; 2.7 Chip

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Sommario/riassunto

This one-stop reference is the first book on this emerging and rapid developing field with a focus on synthesis and catalysis. As such, it covers all aspects from academia and industry in a clearly structured way. Leading experts provide the background information as an initial aid for newcomers to the field, while chapters on different reaction types and industrial applications make this an equally vital resource for specialists.