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	 5.4 Library Design via Computational ToolsReferences; 6 Synthetic Organic Libraries: Solid-Phase Discrete Libraries; 6.1 Synthesis of Solid-Phase Discrete Libraries; 6.2 Structure Determination, Quality Control, and Purification of Solid-Phase Discrete Libraries; 6.3 Examples of Solid-Phase Discrete Library Synthesis; 6.4 New Trends in Solid-Phase Discrete Library Synthesis; 6.4 New Trends in Solid-Phase Discrete Library Synthesis; 7.1 Synthetic Organic Libraries; 7.2 Direct Structure Determination of Positives from Solid-Phase Pool Libraries; 7.2 Direct Structure Determination of Positives from Solid-Phase Pool Libraries; 7.3 Deconvolution Methods for Solid-Phase Pool Libraries; 7.4 Encoding Methods for Solid-Phase Pool Libraries; 7.5 New Trends in Solid-Phase Pool Libraries; References; 8 Synthetic Organic Libraries: Solution-Phase Libraries; 8.1 Solution- Versus Solid-Phase Synthetic Libraries; 8.3 Purification of Solution-Phase Library Intermediates and Final Compounds: Liquid-Liquid and Solid-Phase Extraction Systems; 8.4 Solid-Phase Assisted Solution-Phase Library Synthesis; References; 9 Applications of Synthetic Libraries; 9.1 Pharmaceutical Applications; 9.2 Agrochemical and Food-Related Applications; 9.3 Applications to Combinatorial Reaction Optimization; 9.4 Applications to Catalysis; 9.5 Applications to Molecular Recognition; References; 10 Biosynthetic Combinatorial Biosynthesis Matural Products 10.4 Combinatorial Biocatalysis
Sommario/riassunto	A unique, integrated look at solid-phase synthesis and advances in combinatorial chemistry and technologies The last decade has seen a rapid expansion in combinatorial technologies, a field where chemistry disciplines intersect with automation, statistics, and information science, as well as certain biological disciplines. Reflecting these multidisciplinary trends, this new work provides a comprehensive overview of the most important aspects of solid-phase synthesis (SPS), combinatorial chemistry, and related combinatorial technologies. It clearly demonstrates how SPS and combinatoria