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Nota di contenuto	Organic Synthesis Highlights V; Contents; Preface; List of Contributors; Part I. Synthetic Methods; Direct Conversion of Sugar Glycosides into Carbocycles; Synthesis of Diaryl Ethers: A Long-standing Problem Has Been Solved; Take The Right Catalyst: Palladium-Catalyzed CC-, CN- and CO-Bond Formation on Chloro-Arenes; Alkyne Metathesis in Natural Product Synthesis; Transition Metal-Catalyzed Functionalization of Alkanes; An Eldorado for Homogeneous Catalysis?; New and Selective Transition Metal Catalyzed Reactions of Allenes Controlling Stereoselectivity with the Aid of a Reagent-Directing GroupSolvent-Free Organic Syntheses; Fluorous Techniques: Progress in Reaction-Processing and Purification; Recent Developments in Using Ionic Liquids as Solvents and Catalysts for Organic Synthesis; Recent Advances on the Sharpless Asymmetric Aminohydroxylation; Asymmetric Phase Transfer Catalysis; Asymmetric Catalytic Aminoalkylations: New Powerful Methods for the Enantioselective Synthesis of Amino Acid Derivatives, Mannich Bases, and Homoallylic Amines; IBX - New Reactions with an Old Reagent; Parallel Kinetic

Resolutions

The Asymmetric Baylis-Hillman-Reaction Simple Amino Acids and Short-Chain Peptides as Efficient Metal-free Catalysts in Asymmetric Synthesis; Recent Developments in Catalytic Asymmetric Strecker-Type Reactions; Highly Enantioselective or Not? - Chiral Monodentate Monophosphorus Ligands in the Asymmetric Hydrogenation; Improving Enantioselective Fluorination Reactions: Chiral N-Fluoro Ammonium Salts and Transition Metal Catalysts; Catalytic Asymmetric Olefin Metathesis; Activating Protecting Groups for the Solid Phase Synthesis and Modification of Peptides, Oligonucleotides and Oligosaccharides Traceless Linkers for Solid-Phase Organic Synthesis Merging Solid-Phase and Solution-Phase Synthesis: The "Resin-Capture-Release" Hybrid Technique; Polymeric Scavenger Reagents in Organic Synthesis; Part II. Applications; Total Syntheses of Vancomycin; Bryostatin and Their Analogues; Eleutherobin: Synthesis, Structure/Activity Relationship, and Pharmacophore; Total Synthesis of the Natural Products CP-263,114 and CP-225,917; Polyene Cyclization to Adociasulfate 1; Sanglifehrin A: an Immunosuppressant Natural Product from Malawi; Short Syntheses of the Spirotryprostatins The Chemical Total Synthesis of Proteins Solid-Phase Synthesis of Oligosaccharides; Polymer-Supported Synthesis of Non-Oligomeric Natural Products; Explosions as a Synthetic Tool? Cycloalkynes as Precursors to Fullerenes, Buckytubes and Buckyonions; Dendralenes: From a Neglected Class of Polyenes to Versatile Starting Materials in Organic Synthesis; Fascinating Natural and Artificial Cyclopropane Architectures; Index

Sommario/riassunto

Here, H.-G. Schmalz and T. Wirth have put together a collection of current contributions on the most important topics in organic chemistry all in one handy book. Like its successful predecessors, this volume provides readers with numerous articles on the current state of synthetic methods and their applications. The wide range covered by nearly forty contributions ensures a concise overview of the latest developments in the field, whether they be new methods of C-C bond formation or racemization, asymmetric phase-transfer catalysis or stereoselective metathesis reactions, solid phase reacti
