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Nota di contenuto	Active Metals; Preface; Contents; List of Contributors; 1 Rieke Metals : Highly Reactive Metal Powders Prepared by Alkali Metal Reduction of Metal Salts; 1.1 Introduction; 1.1.1 Physical Characteristics of Highly Reactive Metal Powders; 1.2 Rieke Magnesium, Calcium, Strontium, and Barium; 1.2.1 Formation of Rieke Magnesium; 1.2.2 Formation of Rieke Calcium. Strontium. and Barium; 1.2.3 Grignard Reactions Using Rieke Metals; 1.2.4 1,3-Diene-Magnesium Reagents; 1.2.4.1 Preparation; 1.2.4.2 Regioselectivity 1.2.4.3 Carbocyclization of (1,4-Diphenyl-2-butene-1,4-diyl) magnesium with Organic Dihalides 1.2.4.4 1,2-Dimethylenecycloalkane Magnesium Reagents; 1.2.4.5 Synthesis of Fused Carbocycles, , - Unsaturated Ketones and 3-Cyclopentenols from Conjugated Diene-Magnesium Reagents; 1.2.4.6 Synthesis of Spiro -Lactones and Spiro -Lactones from 1,3-Diene-Magnesium Reagents; 1.2.4.7 Synthesis of -Lactams from Conjugated Diene-Magnesium Reagents; 1.3 Rieke Zinc; 1.3.1 The Preparation of Rieke Zinc; 1.3.2 Direct Oxidative

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Sommario/riassunto

Reactions with metals are ubiquitous in organic synthesis and, particularly in the last few years, a large repertoire of methods for the activation of metals and for their use in organic synthesis has been developed. In Active Metals, topics ranging from morphology of metal clusters and nanometallurgy to organometallic chemistry, catalysis and the use of activated metals in natural product synthesis are authoritatively discussed by leading experts in the field. Active Metals will allow you to fully benefit from the recent advances in the field by giving: * Detailed experimental p