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Nota di contenuto	Main Group Metals in Organic Synthesis; Contents; Preface; List of Contributors; Volume 1; 1 Lithium in Organic Synthesis; 1.1 Introduction; 1.2 Nature of Organolithium Compounds; 1.2.1 Overview; 1.2.2 Structural Features; 1.2.3 Configurational Stability; 1.2.4 Titration of Organolithium Compounds; 1.3 Methods for the Preparation of Organolithium Compounds; 1.3.1 Overview; 1.3.2 Reductive Lithiation using Lithium Metal; 1.3.3 Preparation of Organolithium Compounds from Another Organolithium Compounds; 1.3.3.1 Deprotonation; 1.3.3.2 Halogen-Lithium Exchange; 1.3.3.3 Transmetallation 1.3.3.4 Carbolithiation1.3.3.5 Miscellaneous; 1.4 Methods for Construction of Carbon Frameworks by Use of Organolithium Compounds; 1.4.1 Overview; 1.4.2 Stereospecificity; 1.4.3 Synthetic Application; 1.4.3.1 C-C Bond Formation: Conversion of C-Li to Halogen-Li; 1.4.3.2 C-C Bond Formation: Conversion of C-Li to O-Li; 1.4.3.3 C-C Bond Formation: Conversion of C-Li to N-Li; 1.5 References; 2 Rubidium and Cesium in Organic Synthesis; 2.1 Introduction; 2.2 Organo-, Silyl-, Germyl-, and Stannylmetal; 2.3

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Sommario/riassunto

This is the first handbook to cover in detail all aspects of this fascinating field of chemistry. In this handy two-volume set, readers will instantly find the information they need, clearly structured according to the individual metals in the main groups, hitherto only accessible after much time-consuming research. The result is an indispensable aid for everyday work in the lab. Alongside all the classical organic reactions, this book focuses on the modern variations as well as novel, current reactions in organic synthesis that are closely linked to main group elements - both stoichiometry
