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Nota di contenuto	Contents ; Preface ; The Template Effect ; 1.1. Types of Template Effects ; 1.2. The Template Effect as a Molecular Organizer Effect ; 1.3. Factors Affecting the Product of a Template Reaction ; 1.3.1. Coordination of ligands ; 1.3.2. The chelate effect ; 1.3.3. Macrocyclic effect 1.4. The Negative Template Effect 1.5. Advantages of Metal Template Reaction ; Alkylation Reactions ; 2.1. Alkylation of the Nitrogen Atom ; 2.2. Alkylation of the Sulfur Atom ; 2.2.1. Open chain systems ; 2.2.2. Macrocyclic ligands ; Schiff Condensation ; 3.1. Mechanistic Aspects 3.2. Open-chain Ligands 3.3. Macrocyclic Ligands ; 3.3.1 Diimine macrocycles ; 3.3.2. Tetraimine macrocycles ; 3.4. Cage Ligands ; 3.5 Compartmental Ligands ; 3.5.1. Closed-chain ligands ; 3.5.2. Open chain ligands

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Sommario/riassunto

This book surveys the relatively new area of the synthesis of organic ligands when metal ions act as a template. In the last fifty years this field has undergone an explosive development, marked by a great amount of literature. The material in the book has been arranged according to the type of chemical reaction involved. In this frame, the basic principles of metal template reactions and the shape of the molecules are considered. Designed to satisfy the demands of students, young researchers doing their PhDs, and those working in the field of coordination chemistry, the book details the role