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Nota di contenuto	SIX-MEMBERED TRANSITION STATES IN ORGANIC SYNTHESIS; CONTENTS; Preface; Acknowledgments; Introduction; 1 [3,3]- Sigmatropic Rearrangements; General Considerations; Reactions; 1.1 Claisen Rearrangement; 1.2 Johnson-Claisen Rearrangement; 1.3 Ireland-Claisen Rearrangement; 1.4 Cope Rearrangement; 1.5 Anionic Oxy-Cope Rearrangement; 1.6 Aza-Cope-Mannich Reaction; 2 Aldol Reactions; General Considerations; Reactions; 2.1 Asymmetric Syn- Aldol Reaction; 2.2 Asymmetric Anti-Aldol Reaction; 2.3 Proline- Catalyzed Asymmetric Aldol Reaction; 3 Metal Allylation Reactions; General Considerations; Reactions 3.1 Boron Allylation Reaction3.2 Silicon Allylation Reaction; 4 Stereoselective Reductions; General Considerations; Reactions; 4.1 Diastereoselective Syn-Reduction of -Hydroxy Ketones; 4.2 Diastereoselective Anti-Reduction of -Hydroxy Ketones; 4.3 Asymmetric Reduction; List of Copyrighted Materials; Abbreviations; Subject Index; Scheme Index of Natural Products

1.

This book furthers readers' understanding of the amazing features of six-membered transition states in stereoselective organic reactions. Comprehensive and logically organized, it covers reactions classified in four categories: [3,3]-sigmatropic rearrangements, aldol reactions, metal allylation reactions, and stereoselective reductions. There is a thorough discussion of each reaction category, along with computational studies that support a proposal of a six-membered state. The book assists professors, researchers, and students in proposing reasonable transition states for the description of n