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Nota di contenuto	Aziridines and Epoxides in Organic Synthesis; Foreword; Table of Contents; Preface; List of Contributors; 1 Asymmetric Synthesis of Epoxides and Aziridines from Aldehydes and Imines; 1.1 Introduction; 1.2 Asymmetric Epoxidation of Carbonyl Compounds; 1.2.1 Aryl, Vinyl, and Alkyl Epoxides; 1.2.1.1 Stoichiometric Ylide-mediated Epoxidation; 1.2.1.2 Catalytic Ylide-mediated Epoxidation; 1.2.1.3 Discussion of Factors Affecting Diastereo- and Enantioselectivity; 1.2.2 Terminal Epoxides; 1.2.3 Epoxy Esters, Amides, Acids, Ketones, and Sulfones; 1.2.3.1 Sulfur Ylide-mediated Epoxidation 1.2.3.2 Darzens Reaction1.2.3.3 Darzens Reactions in the Presence of Chiral Auxiliaries; 1.2.3.4 Darzens Reactions with Chiral Reagents; 1.2.3.5 Darzens Reactions with Chiral Catalysts; 1.3 Asymmetric Aziridination of Imines; 1.3.1 Aziridines Bearing Electron-withdrawing Groups: Esters and Amides; 1.3.1.1 Aza-Darzens Route; 1.3.1.2 Reactions between Imines and Carbenes; 1.3.1.3 Aziridines by Guanidinium Ylide Chemistry; 1.3.2 Aziridines Bearing Alkyl, Aryl, Propargyl, and Vinyl Groups; 1.3.2.1 Aryl, Vinyl, and Alkyl Aziridines: Stoichiometric Asymmetric Ylide-mediated Aziridination 1.3.2.2 Aryl, Vinyl, and Alkyl Aziridines: Catalytic Asymmetric Ylide-

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Sommario/riassunto

Aziridines and epoxides are among the most widely used intermediates in organic synthesis, acting as precursors to complex molecules due to the strains incorporated in their skeletons. Besides their importance as reactive intermediates, many biologically active compounds also contain these three-membered rings. Filling a gap in the literature, this clearly structured book presents the much needed information in a compact and concise way. The renowned editor has succeeded in gathering together excellent authors to cover synthesis, applications, and the biological aspects in equal depth.
