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Organic Chemistry, Volume 8: 1,4-Cycloaddition Reactions: The Diels-Alder Reaction in Heterocyclic Syntheses describes 1,4-cycloaddition reactions leading to the formation of five- or six-membered heterocyclic compounds.

Divided into 13 chapters, this book starts with an overview of various 1,4-cycloaddition reaction equations in the presence of at least one atom other than carbon. The following chapters describe the reaction mechanisms of five- or six-membered ring formed upon reaction with a dienophile, which contains an atom other than carbon. Considerable chapters are devoted to compounds used as dienophiles, including trivalent phosphorus, cyanogens and cyanogens-like compounds, imino, azo, carbonyl, thiocarbonyl, and diene compounds, as well as oxygen. Other chapters highlight some 1,4-cycloaddition reactions taking place through free radical intermediates.

This book is of value to organic and research chemists, as well as undergraduate and graduate organic chemistry students.

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