

## CHAPTER OVERVIEW

### 15: ORBITALS AND ORGANIC CHEMISTRY - PERICYCLIC REACTIONS

Pericyclic reactions are of significant synthetic importance in organic chemistry due to their high stereo- and regioselectivity, mild reaction conditions, and the formation of multiple bonds in a single step. They find applications in the synthesis of complex organic molecules, natural product synthesis, and the construction of functional materials. Understanding the principles governing pericyclic reactions is essential for synthetic chemists to design and control reactions with precision.

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