



Pericyclic Reactions (Oxford Chemistry Primers)

By Ian Fleming

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Pericyclic reactions constitute a major strand of organic chemistry, including such commercially important synthetic reactions as the Diels-Alder reaction. Reactions such as these are characterised by their predictable stereochemistry and cyclic transition structures. This primer reviews these reactions in order to explain their theoretical basis via correlation diagrams. It also shows students how to recognize the different types of pericyclic reaction, their mechanisms, and their applications to organic synthesis.

The text is part of the renowned Oxford Chemistry Primer series, which provides focused introductions to a range of important topics in chemistry. The series has been refreshed and updated to suit the needs of today's students and instructors. The rigorous, yet accessible, texts include cutting-edge examples and relevant applications.

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Editorial Review

About the Author

Ian Fleming is Professor Emeritus of Chemistry at the University of Cambridge. He studied at Pembroke College, Cambridge, obtaining his PhD in 1962 in the University Chemical Laboratory supervised by Dr John Harley-Mason. After a year of independent research as a Research Fellow in Pembroke College, he spent a postdoctoral year at Harvard (1963-1964) with Professor R. B. Woodward, before returning to Cambridge, where he was successively Assistant Director of Research, Lecturer, Reader, and Professor of Organic Chemistry. In 1993 he was elected as a Fellow of the Royal Society in recognition of his work on the application of organosilicon chemistry to solving problems of regiocontrol and stereocontrol in organic synthesis. He formally retired from research in 2002, but remains active in writing and teaching.

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