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Alternative rationalization — the aromaticity of pericyclic transition states. Pages 128-143. Gill, G. B. (et al.)

Pericyclic Reactions | G. Gill | Springer

Abstract. A pericyclic reaction is a reaction in which bonds are formed or broken at the termini of one or more conjugated π systems. The electrons move around in a circle, all bonds are made and broken simultaneously, and no intermediates intervene. The requirement of concertedness distinguishes pericyclic reactions from most polar or free-radical reactions, although for many pericyclic reactions reasonable alternative stepwise mechanisms can also be drawn.

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This chapter discusses the four main types of pericyclic reactions, in which bonds form or break at the termini of one or more conjugated π systems, with a special emphasis on stereochemistry. Pericyclic Reactions | SpringerLink

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Abstract. According to Woodward and Hoffmann ([1] p. 182), the pericyclic reactions comprise all concerted intermolecular and intramolecular (electrocyclic, sigmatropic) cycloaddition reactions. The rules of selection of preferable structures for transition states of these reactions based on the principles of orbital approach have found wide acceptance and may serve as an example of an effective qualitative theory.

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Under the generic name pericyclic reactions is hidden the whole class of processes, the typical feature of which is that their mechanisms can be simply visualized by a cyclic exchange of bonds. Pericyclic Reactions | SpringerLink

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Transition state aromatic organic chemistry pericyclic reaction . Authors and affiliations. G. B. Gill. 1; M. R. Willis. 1; 1. Department of Chemistry ... Publisher Name Springer, Dordrecht; eBook Packages Springer Book Archive; Print ISBN 978-0-412-12490-7; Online ISBN 978-94-009-5718-3; Buy this book on publisher's site; Buy options Over 10 ...

Pericyclic Reactions - Springer

Pericyclic Reactions in the Chemistry of Heterocycles. Pericyclic reactions are characterized with cyclic transition states, resulting in high regio- and stereoselectivity, thus are widely used as synthetic tools for the construction of complex molecular frameworks of natural products and for the preparation of heterocyclic compounds containing aromatic, as well as non-aromatic rings.

Pericyclic Reactions in the Chemistry of Heterocycles ...

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This book provides a concise introduction to pericyclic and photochemical reactions for organic synthesis. In the first part about pericyclic reactions, the author explains electrocyclic reactions, cycloaddition reactions, sigmatropic rearrangements, and group transfer reactions. The second part on photochemistry is dedicated to photochemical reactions of a variety of compound classes, including alkenes, dienes, and polyenes, carbonyl compounds, and aromatic compounds.

Essentials of Pericyclic and Photochemical Reactions ...

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Essentials of Pericyclic and Photochemical Reactions ...

Pericyclic Reactions. An important body of chemical reactions, differing from ionic or free radical reactions in a number of respects, has been recognized and extensively studied. Among the characteristics shared by these reactions, three in particular set them apart.: 1.

Pericyclic Reactions - Michigan State University

A pericyclic reaction is a concerted reaction in which the number of rings in the transition state is greater than the total number of rings in the reactant molecules. Introduction to Pericyclic Reactions. An important body of chemical reactions, differing from ionic or free radical reactions in a number of respects, has been recognized and extensively studied.

Pericyclic Reactions - Chemistry LibreTexts

In organic chemistry, a pericyclic reaction is the type of organic reaction wherein the transition state of the molecule has a cyclic geometry, the reaction progresses in a concerted fashion, and the bond orbitals involved in the reaction overlap in a continuous cycle at the transition state.

Pericyclic reaction - Wikipedia

Pericyclic reactions are the concerted reactions involving reorganization of electrons which occur by the way of a single cyclic transition state. Characteristics of Pericyclic reactions: * The pericyclic reactions occur in single step and hence there is no intermediate formed during the reaction.

PERICYCLIC REACTIONS | CYCLOADDITION | ELECTROCYCLIC ...

- A pericyclic reaction is a concerted reaction that proceeds through a cyclic transition state. Pericyclic reactions require light or heat and are completely stereospecific; that is, a single stereoisomer of the reactant forms a single stereoisomer of the product.

Supplementary Topic Pericyclic Reactions C

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