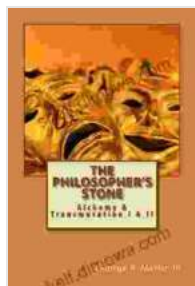


Synthetic Organic Photochemistry: Molecular and Supramolecular Photochemistry



Synthetic Organic Photochemistry (Molecular and Supramolecular Photochemistry) by George R. Martin III

★★★★★ 5 out of 5

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| Language | : English |
| File size | : 318 KB |
| Text-to-Speech | : Enabled |
| Screen Reader | : Supported |
| Enhanced typesetting | : Enabled |
| Word Wise | : Enabled |
| Print length | : 63 pages |
| Lending | : Enabled |
| Hardcover | : 644 pages |
| Item Weight | : 2.25 pounds |
| Dimensions | : 6 x 1.38 x 9 inches |

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Photochemistry is the study of the interaction of light with matter. Organic photochemistry is the study of the interaction of light with organic molecules. Synthetic organic photochemistry is the use of light to prepare organic molecules.

This book provides a comprehensive overview of the field of synthetic organic photochemistry, with a focus on the preparation of organic molecules using light. It covers a wide range of topics, including the fundamental principles of photochemistry, the design and synthesis of photochromic and photoresponsive molecules, and the application of photochemistry in organic synthesis.

Fundamental Principles of Photochemistry

The fundamental principles of photochemistry are based on the laws of thermodynamics and quantum mechanics. The first law of thermodynamics states that energy cannot be created or destroyed, only transferred or transformed. The second law of thermodynamics states that entropy always increases in a closed system. Quantum mechanics is the study of the behavior of matter at the atomic and subatomic level.

When light is absorbed by an organic molecule, the molecule is excited to a higher energy state. The excited molecule can then undergo a variety of reactions, including bond cleavage, isomerization, and cycloaddition. The reaction that occurs depends on the energy of the excited molecule and the structure of the molecule.

Design and Synthesis of Photochromic and Photoresponsive Molecules

Photochromic molecules are molecules that change color when exposed to light. Photoresponsive molecules are molecules that undergo a chemical reaction when exposed to light. The design and synthesis of photochromic and photoresponsive molecules is a challenging but rewarding task.

Photochromic molecules can be used in a variety of applications, such as sunglasses, displays, and sensors. Photoresponsive molecules can be used in a variety of applications, such as drug delivery, imaging, and catalysis.

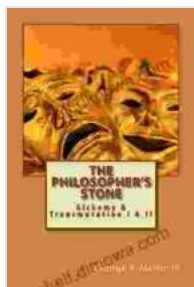
Application of Photochemistry in Organic Synthesis

Photochemistry can be used to synthesize a wide range of organic molecules. Photochemical reactions are often more efficient and selective

than traditional thermal reactions. Photochemistry can also be used to synthesize molecules that are not accessible by other methods.

Photochemistry is a powerful tool for the synthesis of organic molecules. It is a versatile technique that can be used to prepare a wide range of molecules with high efficiency and selectivity.

This book provides a comprehensive overview of the field of synthetic organic photochemistry. It is a valuable resource for students, researchers, and professionals in the field. The book provides a deep understanding of the fundamental principles of photochemistry, the design and synthesis of photochromic and photoresponsive molecules, and the application of photochemistry in organic synthesis.



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