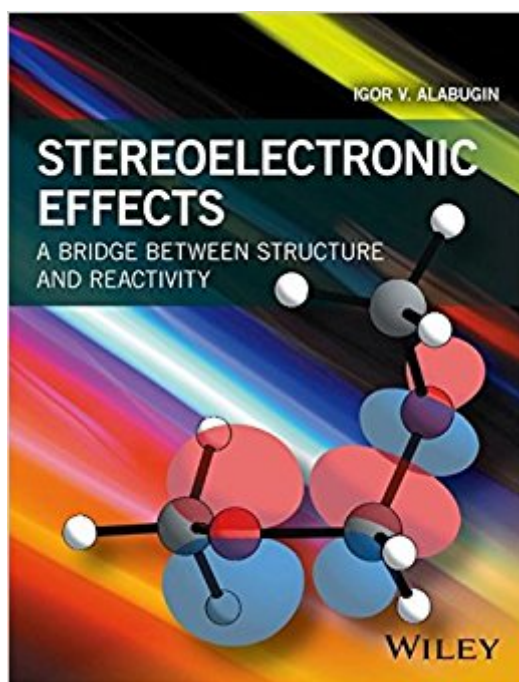


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# Stereoelectronic Effects: A Bridge Between Structure And Reactivity



## Synopsis

Stereoelectronic Effects illustrates the utility of stereoelectronic concepts using structure and reactivity of organic molecules. An advanced textbook that provides an up-to-date overview of the field, starting from the fundamental principles. Presents a large selection of modern examples of stereoelectronic effects in organic reactivity. Shows practical applications of stereoelectronic effects in asymmetric catalysis, photochemical processes, bioorganic chemistry and biochemistry, inorganic and organometallic reactivity, supramolecular chemistry and materials science.

## Book Information

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## Customer Reviews

"This book is highly recommended to every chemist and particularly to every student to work through this book. The higher understanding thus obtained in many chemical fields will be beneficial throughout every phase of chemical education and work. It should furthermore be perfectly suitable as accompanying book for an advanced course on this topic." (Angewandte, 1 February 2017)

Professor Igor V. Alabugin, Department of Chemistry and Biochemistry, Florida State University, USA. Over the last 15 years, Professor Alabugin has investigated a number of stereoelectronic effects and applied stereoelectronic concepts in practice to the development of new organic reactions. The wide appeal of these concepts is reflected in >1000 citations for his top three papers in this area. His expertise is in broadly defined experimental and computational organic chemistry, medicinal chemistry and materials science.

This book describes unexpected connections between structure and reactivity that make organic chemistry interesting. It is a modern book with references that go up as far as 2016. Unlike many textbooks, it is based on original research papers that are critically analyzed and combined into a logical narrative. It starts with the fundamentals of chemical bond formation and quickly progresses to structure and reactivity of important functional groups. Discussion continues to topics as broad as catalysis, biochemistry and spectroscopy. Plenty of interesting examples to use in an advanced organic chemistry class.

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