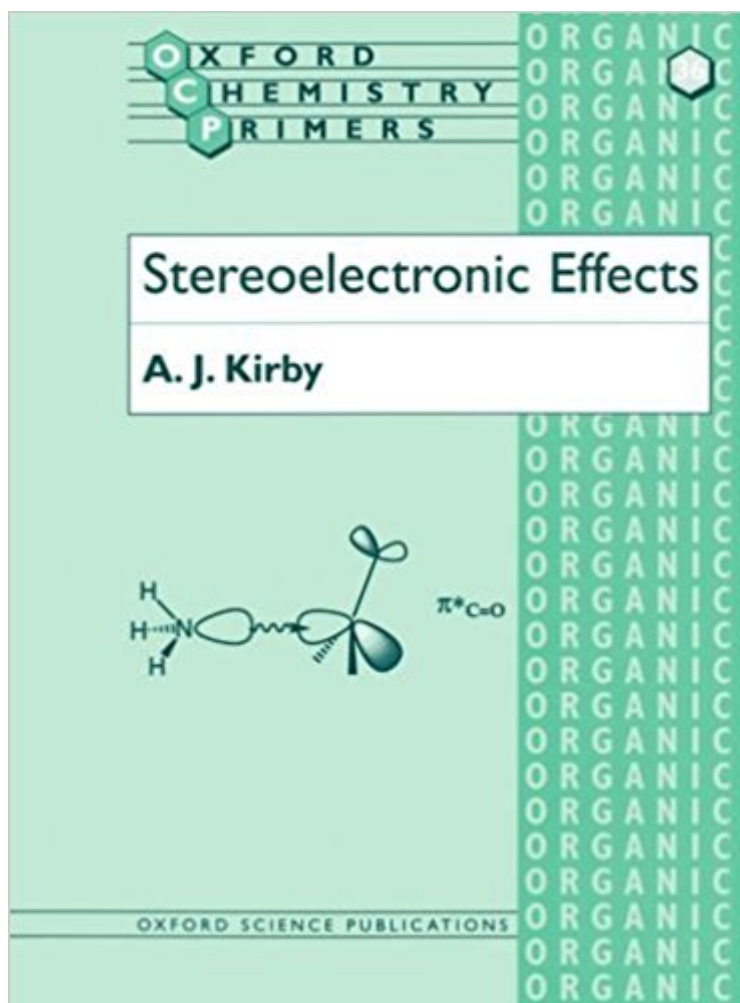


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# Stereoelectronic Effects (Oxford Chemistry Primers)



## Synopsis

Every serious student of chemistry should try to develop a 'feel' for the way molecules behave - for the way they are put together and especially for the rules of engagement which operate when molecules meet and react. This primer describes how stereoelectronic effects control this behavior. It is the only concise text on this topic at the undergraduate level. This is an important subject area and the comprehensive yet concise coverage in this book shows students how to build up a powerful but simple way of thinking about chemistry.

## Book Information

Series: Oxford Chemistry Primers (Book 36)

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## Customer Reviews

'The subject is presented authoritatively, systematically and concisely without resort to mathematical treatment. As this subject is often given little coverage in textbooks or organic chemistry this text is to be welcomed.' Aslib Book Guide, vol.61, no.11, November 1996  
'This book is a useful introduction to stereo-electronic effects in organic chemistry. The style is engaging ... this book is an excellent supplementary text for undergraduates. Sponsorship for the series by Zeneca also ensures that it is extremely good value for money.' Chemistry in Britain, September 1997  
'engaging critique of biography .... enjoyable and thought provoking' New Scientist

This series of short texts provides accessible accounts of a range of essential topics in chemistry. Written with the needs of the student in mind, the Oxford Chemistry Primers offer just the right level of detail for undergraduate study, and will be invaluable as a source of material commonly

presented in lecture courses yet not adequately covered in existing texts. All the basic principles and facts in a particular area are presented in a clear and straightforward style, to produce concise yet comprehensive accounts of topics covered in both core and specialist courses. Stereoelectronic effects - interactions between electronic orbitals in three dimensions - control the way that molecules are put together and the 'rules of engagement' which operate when they meet and react. An understanding of these effects will help the student develop a 'feel' for the nature of molecules and their capabilities, which is especially useful when considering reactivity. Although there are a vast numbers of reactions known, these may be grouped into a small number of mechanistic classes, then into a still smaller set of classes of stereoelectronic interaction. Stereoelectronic effects is deliberately non-mathematical in its approach, with reactions illustrated by real examples. It should provide the student with an understanding of fundamental relationships and a powerful but simple approach to thinking about Chemistry.

If you are an organic synthesis student, then this is for you. It has enough information to get the point across and to introduce you to the ideas of HOMO-LUMO, while at the same time not overload you with excruciating details.

Product as described, fast shipping. Happy customer

NICE BOOK

In the physical organic chemistry course I have been taking, we have been talking all about stereoelectronic effects and molecular orbitals. I was having trouble with frontier molecular orbital theory as it relates to stereoelectronic effects and was not finding helpful explanations in other texts I was consulting. A friend recommended I read Kirby, and I am so glad she did. Kirby offers in-depth explanations of stereoelectronic phenomena in a useful and understandable manner. This is a great addition to any organic chemist's library.

Kirby's Stereoelectronic effects provides a good introduction to the fundamentals of molecular orbital interactions. Makes a nice supplement to advanced organic chemistry texts that are deficient in this area

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