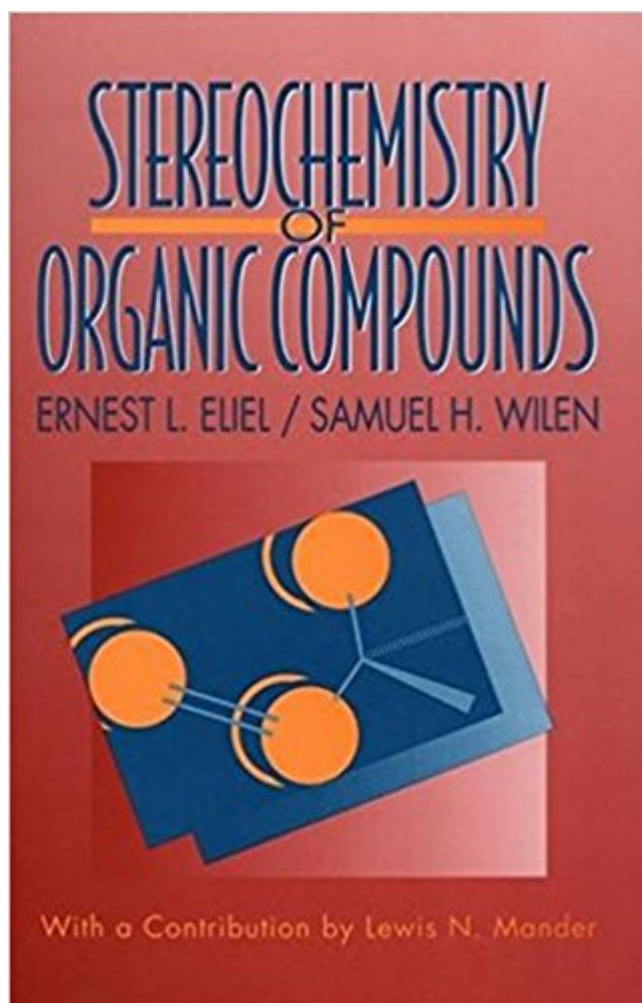


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Stereochemistry Of Organic Compounds



Synopsis

Stereochemistry of Organic Compounds The first fully referenced, comprehensive book on this subject in more than thirty years, *Stereochemistry of Organic Compounds* contains up-to-date coverage and insightful exposition of all important new concepts, developments, and tools in the rapidly advancing field of stereochemistry, including:

- * Asymmetric and diastereoselective synthesis
- * Conformational analysis
- * Properties of enantiomers and racemates
- * Separation and analysis of enantiomers and diastereoisomers
- * Developments in spectroscopy (including NMR), chromatography, and molecular mechanics as applied to stereochemistry
- * Prostereoisomerism

Conceptual foundations of stereochemistry, including terminology and symmetry concepts

Chiroptical properties

Written by the leading authorities in the field, the text includes more than 4,000 references, 1,000 illustrations, and a glossary of stereochemical terms.

Book Information

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Customer Reviews

This is a classic book by a world-renowned expert. I am a practicing organic chemist, and this book has never failed to answer even the most obscure questions I have had about stereochemistry. It is highly recommended as an indispensable reference on the subject.

I bought this book about 5 months ago while taking an advanced organic synthesis class. I wasn't sure if it would be of help. But, there aren't many comparable stereochemistry books available. The money was well spent! If there's a common question regarding stereochemistry, it'll have the answer

in there. If there's an obscure question regarding stereochemistry, it'll also have the answer. Kudos to the authors for cramming so much information into a text. When I've needed more material than the text presents, ample references are provided. Bear in mind, I'm talking about exact experimental procedures, and not general experiments. The authors cover experiments, their significance, and references. When I've needed to duplicate an experiment, I check the references. I have as yet to come across a stereochemistry question that the authors haven't addressed. This is surprising, since I'm knee deep in stereochemistry. Presently, the book is on my desk, not my bookshelf.

In spite of its 20 years (1994), this book (~1300 pages index included!) can be considered the definitive reference of Organic Stereochemistry. It contains hundreds of references at the end of each chapter and it covers the stereochemistry of almost every organic molecule, from the simple hydrocarbons up to molecules devoid of asymmetric carbon atoms such as helicenes and cyclophanes. The experimental determination of chiroptical properties also is covered by the authors while for the computational determination of such properties one can complement it with the 2012 book VCD Spectroscopy for Organic Chemists.

This is still the single best book for learning stereochemistry, which is one of the most fundamental aspects of organic structure and synthesis, and it became an instant classic when it was first published in the 60s. Stereochemistry is a topic that comes up again and again in an important manner no matter what kind of research in chemistry you are doing. Ernest Eliel was probably the foremost expert in stereochemistry of his time, and even now, there is nothing which compares with his book. Luckily, he has updated it periodically. It now includes an excellent section on stereoselective synthesis, which drives research in both academics and industry. The earlier chapters on the stereochemistry of acyclic and cyclic systems (especially six membered rings) are updated and still remain the clearest explanations of conformation and reactivity that I have seen. They contain very basic and extremely important concepts which drive the reactivity of organic molecules in any reaction, including those in biological systems. I have this book on my shelf for six years now, and so do most of my professors. And we find that no matter what kind of research question we are pondering, we often keep coming back to 'Eliel'. An indispensable reference.

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