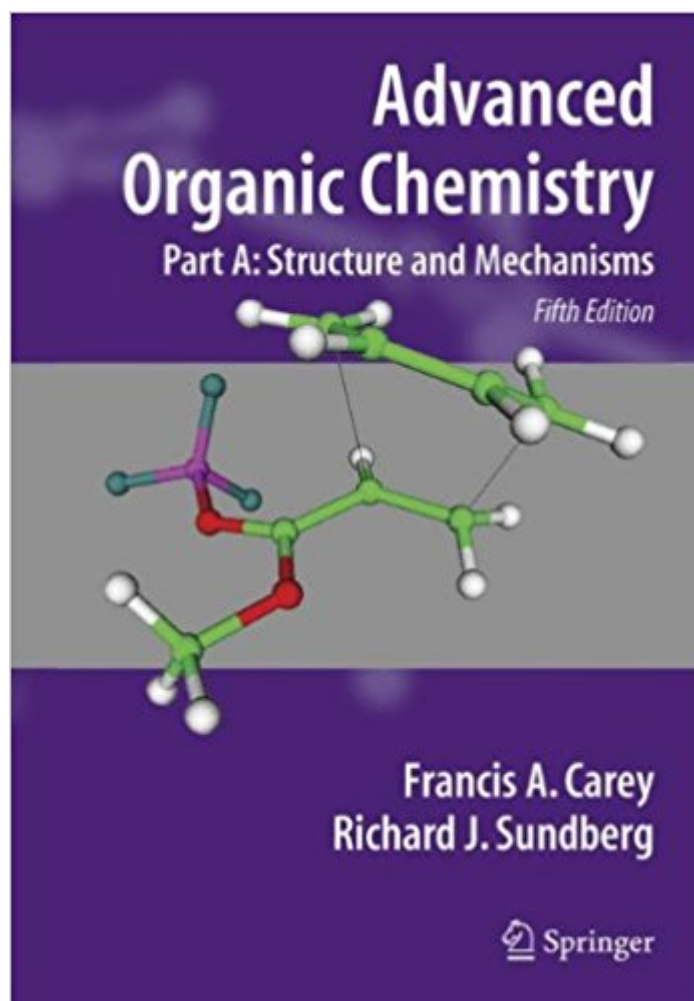


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# Advanced Organic Chemistry, Part A: Structure And Mechanisms



## Synopsis

The two-part, fifth edition of *Advanced Organic Chemistry* has been substantially revised and reorganized for greater clarity. The material has been updated to reflect advances in the field since the previous edition, especially in computational chemistry. Part A covers fundamental structural topics and basic mechanistic types. It can stand-alone; together, with Part B: *Reaction and Synthesis*, the two volumes provide a comprehensive foundation for the study in organic chemistry. Companion websites provide digital models for study of structure, reaction and selectivity for students and exercise solutions for instructors.

## Book Information

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## Customer Reviews

From the reviews of the fifth edition: “Carey and Sundberg had written the most detailed and brilliant account in the subject of organic chemistry. The book provides an abundance of reaction examples organized in schemes. It makes studying very effective and helpful. Advanced undergraduates and graduate students will welcome this new edition and the depth of materials covered.” (Philosophy, Religion and Science Book Reviews, [bookinspections.wordpress.com](http://bookinspections.wordpress.com), May, 2014)

Since its original appearance in 1977, *Advanced Organic Chemistry* has maintained its place as the premier textbook in the field, offering broad coverage of the structure, reactivity and synthesis of organic compounds. As in the earlier editions, the text contains extensive references to both the primary and review literature and provides examples of data and reactions that illustrate and

document the generalizations. While the text assumes completion of an introductory course in organic chemistry, it reviews the fundamental concepts for each topic that is discussed. The two-part fifth edition has been substantially revised and reorganized for greater clarity. Part A begins with the fundamental concepts of structure and stereochemistry, and the thermodynamic and kinetic aspects of reactivity. Major reaction types covered include nucleophilic substitution, addition reactions, carbanion and carbonyl chemistry, aromatic substitution, pericyclic reactions, radical reactions, and photochemistry. Among the changes: Coverage of the importance of computational chemistry in modern organic chemistry, including applications to many specific reactions. Expanded coverage of stereoselectivity and enantioselectivity, including discussion of several examples of enantioselective reagents and catalysts Chapter 10, Concerted Pericyclic Reactions, has been reorganized and now begins with cycloaddition reactions. The treatment of photochemical reactions has been extensively updated to reflect both experimental and computational studies of the transient intermediates involved in photochemical reactions. A companion Web site provides digital models for study of structure, reaction and selectivity. Here students can view and manipulate computational models of reaction paths. These sites also provide exercises based on detailed study of the computational models. Several chapters in Part A conclude with Topics – short excursions into specific topics such as more detailed analysis of polar substituent effects, efforts to formulate substituent effects in terms of density functional theory, or the role of carbocations in petroleum refining Solutions to the chapter problems are provided to instructors online Advanced Organic Chemistry Part A provides a close look at the structural concepts and mechanistic patterns that are fundamental to organic chemistry. It relates those mechanistic patterns, including relative reactivity and stereochemistry, to underlying structural factors. Understanding these concepts and relationships will allow students to recognize the cohesive patterns of reactivity in organic chemistry. Part A: Structure and Mechanism and Part B: Reaction and Synthesis taken together are intended to provide the advanced undergraduate or beginning graduate student in chemistry with a foundation to comprehend and use the research literature in organic chemistry

this book is organized well and it has good examples, explanations, an online version, good problems, structures and answer key. easy to follow as a student and as a teacher giving the lecture. I have had much worse chemistry especially organic books in terms of explaining things in a way that can be understood, not over complicated. HOWEVER... even though this book is NOT by any means the first edition, I have never seen so many errors in a book in my life; text or otherwise.

there are errors in the problems, text, consistency, charges, bonds, numbers, structures, arrow pushing, reagent placement... the information is right and the references can help to figure out real discrepancies but there are just so many little errors as if the book was NEVER edited before printing, or at least not by anyone who has any kind of chemistry background. this is unacceptable for a graduate level science book! it has gotten so bad that our teacher is giving away extra credit to students who can find and correct errors by reading ahead so he can make sure to point them all out in class to prevent further problems! not complaining about the extra credit but... come on. To top it all off, this book is just heavy as hell and it's not even a hard cover (so glad I didn't have to pay extra for that, not just money but for having to carry it everywhere!) barely fits in my bag most of the time anyway.

If you are buying this book it is most likely for a graduate level physical organic chemistry course. Which means reviews are probably fairly pointless, since you have to buy the book. You should at least know that the book is well written and actually a helpful resource. Personally I struggled with the class, but the book was helpful and fairly easy to use. Despite my best efforts, I cannot imagine a chair structure in my head. If this is a problem for you as well I would suggest another course if possible, and if not you will need a model kit.

This book was recommended by my organic chemistry professor, so I purchased it. Some of the information is over my head right now, but will surely be beneficial as I climb the academic ladder, as I am pursuing a bachelor's degree in chemical engineering.

The chapters in this book are ripe with good information that post orgo 2 chemists will find illuminating. However, the book suffers from poor editing (terrible chemdraw and errors in the problems that are new to this edition) and a mediocre writing style.

Product as described, fast shipping. Happy customer

The content is very rich and with a lot of good references.

Nice expansion from the previous edition

great book - no problems

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