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# Advanced Organic Chemistry: Reactions, Mechanisms, And Structure



## Synopsis

After four editions, it's still the reference students and professionals count on. Advanced Organic Chemistry Fourth Edition Only one reference has brought consistently incisive, up-to date, and comprehensive coverage of the most useful reactions in organic chemistry directly to the fingertips of both students and professionals: Advanced Organic Chemistry. Organized by reaction type, a feature that makes clear the basic principles underlying the nearly 580 reactions described, Advanced Organic Chemistry offers instant access to each reaction's scope, limitations, and mechanisms. Balancing timely detail and informative breadth, this new updated Fourth Edition: Describes the structure of organic compounds, including chemical bonding and stereochemistry Reviews general reaction mechanisms, including ordinary reactions and photochemical reactions Includes a survey of reactions, arranged by reaction type and by which bonds are broken and formed Includes IUPAC's newest system for designating reaction mechanisms Features an index to the methods used for preparing given types of compounds Contains more than 15,000 references-5,000 new to this edition-to original papers

## Book Information

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## Customer Reviews

"...the book remains tremendous value for money...more pages per buck than most other texts...so it will remain a firm favourite as a general organic text and an easy-to-use 1-volume reference...will undoubtedly appear in all organic chemistry libraries and probably on many chemists' personal bookshelves too." (Organic Process Research & Development Journal, Vol. 5, No. 6, November

2001) --This text refers to an out of print or unavailable edition of this title.

Revised and updated to reflect the growth in the field, it covers the three fundamental aspects of the study of organic chemistry--reactions, mechanisms and structure. Part One explores the structure of organic compounds, providing the necessary background for understanding mechanisms. Part Two discusses reactions and mechanisms. Organized by reaction type, each of these chapters discusses the basic mechanisms along with reactivity and orientation as well as the scope and mechanisms of each reaction. --This text refers to an out of print or unavailable edition of this title.

Heavy! Large thick monster of a book. I use this to supplement my curiosity of Organic Chemistry as it helps me to understand better the details we study from looking ahead and formulating what larger picture it neatly arranges to. The writing is technical, however it is not dry. The language is not overly complicated and it reads very smoothly (this is coming from someone who loves to read literature and pretty much drags herself slowly through technical texts in order to absorb every detail as in a novel book). Lol. The drawings your typical skeletal structures and there was no color in my text. Overall it is not too distracting of a layout and it is a great book to have on your shelf for reference and later curricula. Because by God there will be that question about that tiny little detail you missed on the test that was not described by your current assigned author. Lol be prepared for Advanced Organic Chem!

Information presented was clearer than the textbook used for the class.

I bought this for my son ,he said it is great ,he is working on his bachelors.

The reason you will like this book is because it contains pretty much everything you will ever need to know about organic chemistry. It lacks many mechanisms but will refer you to the paper utilizing the reaction you need. This book, as well as Protective Groups in Organic Synthesis, is an essential reference for the organic chemist. Buy it!

This book simply is "the bible" for organic chemists - it is clearly organized and has the most powerful index I have ever seen in a book. It serves well not only as a reference guide for the working chemist but also is a good book for students.

I agree with the other reviewers. I'd like to add that this book is also phenomenally useful as a reference for all chemists, not just organic chemists. It is undoubtedly the most complete work in terms of useful organization of cited references going back nearly a century. Its usefulness has led me to dedicate a recent article to Jerry March. Since Jerry's death in 1997, it will be up to Wiley to find a suitable coauthor to update this volume. I can only hope for a choice as good as Jerry. Along with Cotton & Wilkinson's *Adv. Inorg. Chem.*, Jerry's book is a must for every chemist's ready-reference library.

As usual, March's brings tens of thousands of reactions and structures to the desktop. While used as a text by graduate courses everywhere in the US, it remains one of my favorite desktop references as a working chemist. For a chemist doing analytical, physical, environmental, or nearly any kind of chemistry that deals with organic reactions and/or molecules at one time or another, you can barely afford to be without it, unless you work at a library. Best of all, March's gives you an excellent set of references for more depth on any reaction. Just the same, the mechanistic side tends to be a bit short or sometimes not illustrated as well as elsewhere. Also, the paper is way too thin, giving bleed through if I copy it for reference to give someone else when trying to prove or illustrate a point. It's also a bit fragile and sometimes harder to read because of that. It really should be better paper and two volumes by now. Softcopy would be even better. I haven't used this new edition enough to be certain, but I think there are more typos and so forth in it than I remember seeing in my earlier edition. Just the same, it is extremely useful and packs a lot of info. into a small package. Which I had it in softcopy, though. It has saved my several trips to the library in the month I've had the new edition.

Updated for the continuing growth of the field, Jerry March had simply written one of the most comprehensive works in organic chemistry. The huge, thick volume might not serve as a text but rather a desktop reference. It was chosen as a course bible for my organic synthesis class. The first part of the book deals with structures in organic chemistry. It serves as a prerequisite to understanding of reactions and mechanisms. This section contains information about some of the most ambiguous organic intermediates (species) such as nitrenes, carbenes, carbocations, and tautomers. One can also find detailed discussion on cis-trans isomerism and structural reactivity relations. Part II of the volume discusses organic reactions and types of reactions in depth. Representative reactions include nucleophilic substitution, electrophilic substitution, rearrangements and radical reactions. Though March's work is self-containing as a sole reference, it is also meant to

serve as a companion to major texts such as Miller's "Advanced Organic Chemistry", the double volumes of "Advanced Organic Chemistry" by Carey and Sundberg and any undergraduate introductory texts. March's book distinguishes itself in discussion of organic named reaction such as Suzuki reaction, Wolf-Kishner reduction, Swern oxidation, etc. One might often encounter difficulty in looking up named reactions. Jerry March's book will ease much of the trouble. Organic chemists and students should not miss this treasured work. Highly recommended.

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