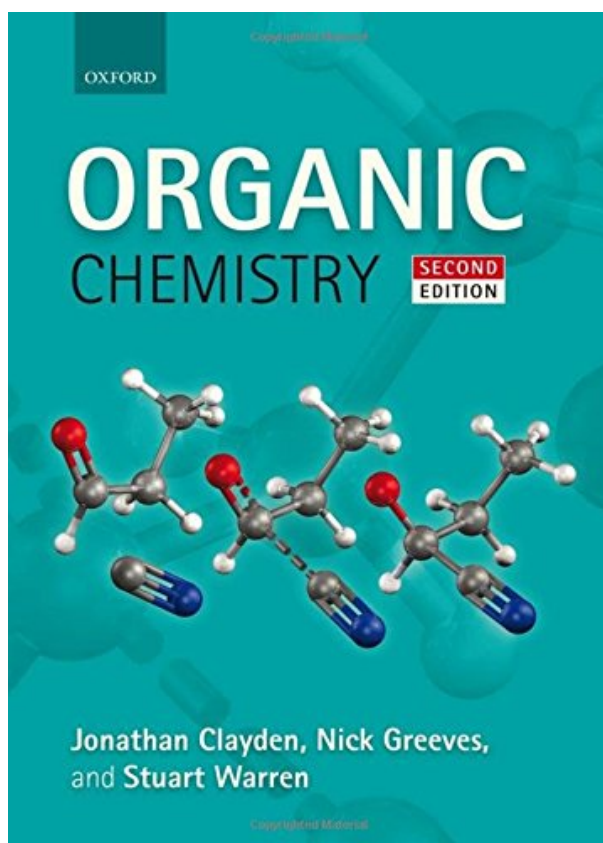
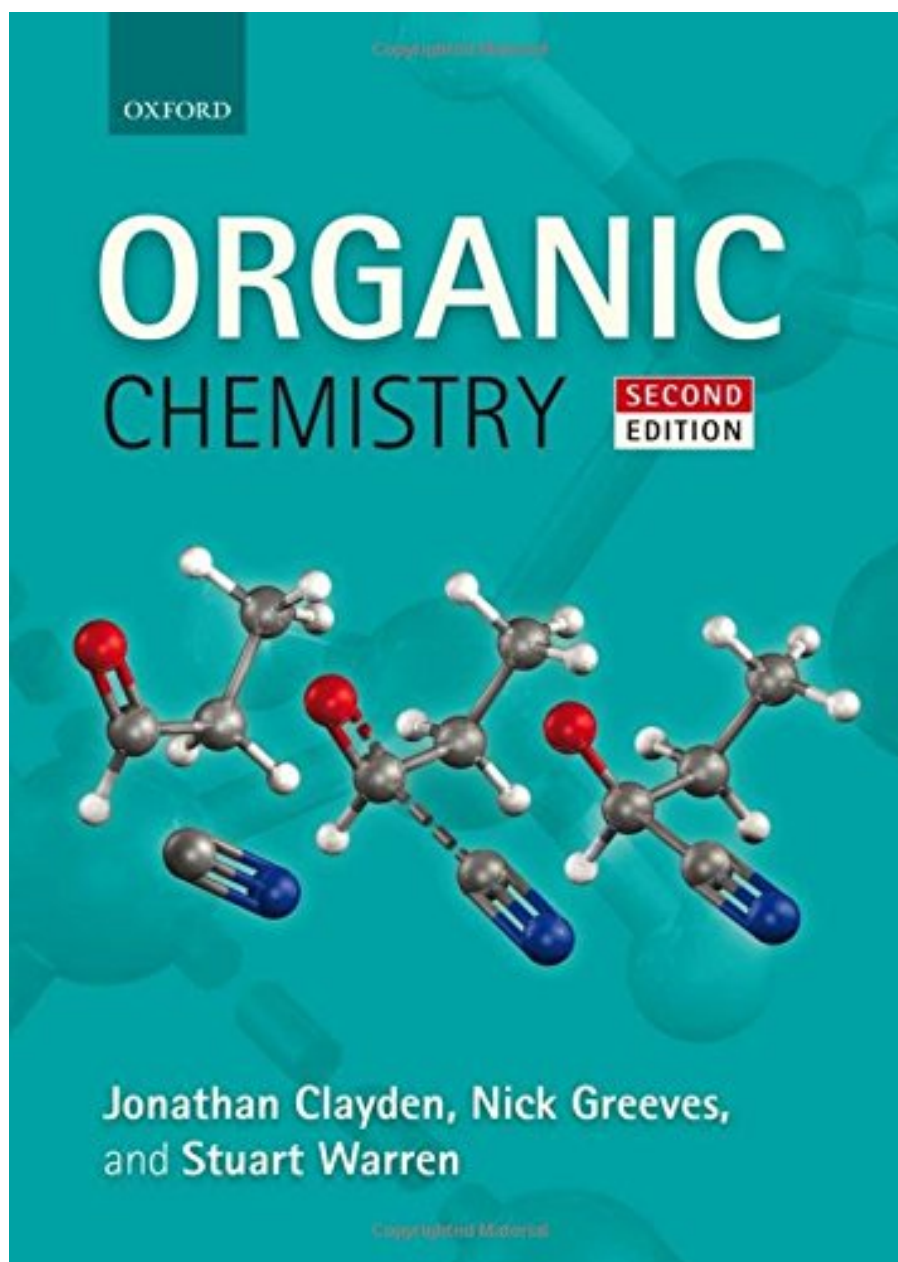


# ORGANIC CHEMISTRY BY JONATHAN CLAYDEN, NICK GREEVES, STUART WARREN



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Inspiring and motivating students from the moment it published, Organic Chemistry has established itself in just one edition as the student's choice of an organic chemistry text.

The second edition refines and refocuses Organic Chemistry to produce a text that is even more student-friendly, coherent, and logical in its presentation than before.

Like the first, the second edition is built on three principles:

An explanatory approach, through which the reader is motivated to understand the subject and not just learn the facts;

A mechanistic approach, giving the reader the power to understand compounds and reactions never previously encountered;

An evidence-based approach, setting out clearly how and why reactions happen as they do, giving extra depth to the reader's understanding.

The authors write clearly and directly, sharing with the reader their own fascination with the subject, and leading them carefully from topic to topic. Their honest and open narrative flags pitfalls and misconceptions, guiding the reader towards a complete picture of organic chemistry and its universal themes and principles.

## SUPPORT MATERIALS

The Companion Website ([www.oup.com/uk/orc/bin/9780199270293](http://www.oup.com/uk/orc/bin/9780199270293)), available to all adopters of the text, includes:

- 3D Organic Animations: Link to chemtube3d to view interactive 3D animations developed by the author
- Additional Chapters: Four chapters from the first edition that do not appear in the second
- Errata: Corrections to the book since publication
- End-of-Chapter Questions: A range of problems to accompany each chapter
- Figures in PowerPoint: Figures pre-inserted into PowerPoint for use in lectures and handouts
- Problems: Problems to accompany each chapter from the new edition of Organic Chemistry will be posted in the student area of the book's Companion Website throughout the year (April, June, and December 2012)

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Most helpful customer reviews

25 of 26 people found the following review helpful.

2ed vs 1ed

By pipelion

Since its appearance in 2001, "Clayden" is clearly the best book that undergraduates can acquire for their preparation in Organic Chemistry. This piece of art continues its hegemony in the second edition, so there is no point in comparing this book with other books actually in the market (that's the reason for 5 stars). Therefore, this review focus on comparisons between the first and second edition.

Main changes:

1) The main change in the new edition deals with the order of topic presentation. Clearly, the new order is better, and more logically fluent. For example, conjugate addition is now grouped with nucleophilic aromatic substitution.

Each chapter ends with a "further reading" section which was so much in need. These changes would be greatly valued by teachers.

2) some chapters that appeared in the 1st ed are not included in the printed version of the 2 ed, however, it should be clear that these chapters still exist and every owner of the new edition have access to them via the companion web site

3) the problems section at the end of each chapter is no longer included in the printed version, they are included in the companion web site.

4) Only few discussions were rephrased with only modest enlargement of some discussions and deletion of others. This can be seen for example in the chapter of "organometallic chemistry" where discussion of the Buchwald-Hartwig reaction is enlarged (great!) and the Pauson-Khand reaction deleted (pity).

5) Figures and paper quality are better in the new edition. These reflect in the instructor material which basically consist of digital figures inserted in ppt for each chapter.

Some not so great comments:

The major flaw of "Clayden" since its first edition in this reviewer opinion is its lack of sufficient exercises. This was aggravated in the 2ed (the first has around 15 problems per chapter...now only 10!), however, their inclusion as a .pdf downloadable file opens the opportunity for redemption, as it seems there is no reason why this short selection of problems cannot change by 30 or 40 per chapter in the future. Hopefully the excellent solutions guide from the first edition will appear as electronic files that can change with time (yes, it is not yet available).

As a teacher, I usually impart from "Clayden" and assign the problems from other texts (e.g. Carey adv. org.



chem. part A, or Grossman the art of writing reasonable org react mech).

The book is now accompanied by a web site that brings a lot of animations to almost every single reaction that appeared in the text, however, access to this site is not restricted and you don't need to be an owner of the 2ed to enjoy this. (just go to [...] and search)

in conclusion, if you need to buy an organic chemistry textbook, don't hesitate, BUY CLAYDEN 2 ed. However, if you are an owner of the 1st ed, STAY WITH IT as the goodies for updating are not sufficient.

12 of 12 people found the following review helpful.

The best modern textbook for organic chemistry

By Ash Jogalekar

This is undoubtedly the best modern book for learning organic chemistry. Unlike some other books which present organic chemistry as a set of facts and reactions to be learnt and memorized, this book instead emphasizes the unifying threads between different concepts and also stresses the assimilation of those concepts through real-life applications. Common themes such as syn-anti addition, carbocations and orbital overlap tie together disparate reactions and aspects of organic chemistry.

The first edition of this book was published in 2001 and the updated edition in 2012, so the discussion in this book includes reactions and reagents that are often missing from other comparable texts. For instance the volume still provides the most complete and readable description of the Grubbs metathesis reaction that I have come across, clearly emphasizing the mechanism, the effects of different ligands and solvents and applications to complex natural products. Other reactions of paramount importance to both academia and industry which are presented in the book include the palladium-catalyzed Suzuki, Heck, and Sonogashira couplings (which were recently awarded the Nobel Prize). The Buchwald-Hartwig reaction which was not as developed in 2001 but which has since seen immense growth gets an especially detailed mention.

The volume covers the whole gamut of current organic chemistry. Apart from its modern and unifying outlook, the other feature that stands out is the way it stresses the practical relevance of all this material. Organic chemistry is really the basis of our modern way of life and the book reflects this fact. The value of almost every important reaction and reagent is demonstrated by its application to the synthesis of an important drug, polymer, food additive or agrochemical. The book also does a great job of illustrating the great value of simple concepts; for instance, one chapter discusses the application of pKa to the development of the bestselling drug ranitidine, another provides an explanation of the lachrymatory (tear-inducing) properties of onions as rooted in sigmatropic reactions involving sulfur compounds. From the clinic to the kitchen, this book drives home the fact that organic chemistry is not just an intellectually rewarding exercise but is at the foundation our daily existence.

In addition to these qualities, the book is written in an honest, informal style and the authors admit uncertainty where it exists. Color enhances bonds, atoms and mechanistic arrows while boxed material contains key concepts and intriguing examples. Overall we are treated to an incredible amount of information in an attractive format and the authors must have really spent a lot of efforts in planning and presenting it. In its second edition this book continues to be an extremely useful source for students and practitioners alike and it is highly recommended.

9 of 9 people found the following review helpful.

a quote from page 434 sums up everything you need to know

By James Chico

The quote below talks about something called Markovnikov's Rule, which is a mnemonic device taught in most organic chemistry textbooks (it references a figure with a reaction immediately below it).

"There is a traditional guideline called Markovnikov's Rule for electrophilic additions of H-X to alkenes, which can be stated as: 'The hydrogen ends up attached to the carbon of the double bond that had more hydrogens to start with.' We don't suggest you learn this rule, although you may hear it referred to. As with all 'rules' it is much more important to understand the reason behind it. For example, YOU can now predict the product of the reaction below. With all due respect, Markovnikov couldn't."

This embodies the spirit of the entire textbook. Quite simply the best.

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