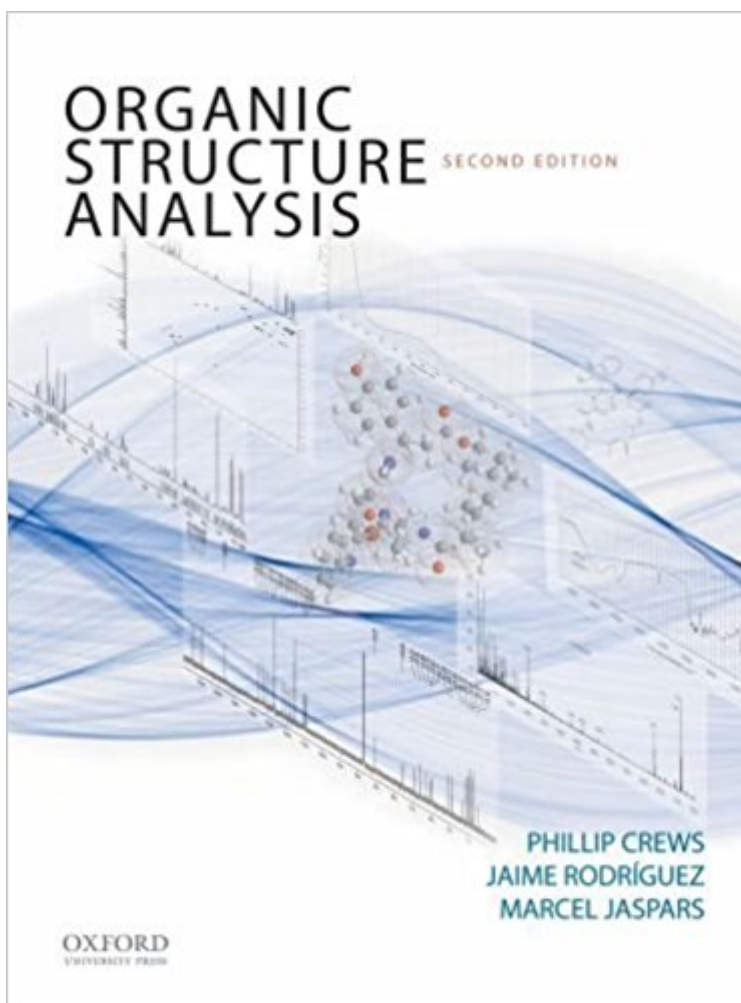


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# Organic Structure Analysis (Topics In Organic Chemistry)



## Synopsis

The most up-to-date integrated spectroscopy text available, *Organic Structure Analysis*, Second Edition, is the only text that teaches students how to solve structures as they are solved in actual practice. Ideal for advanced undergraduate and graduate courses in organic structure analysis, organic structure identification, and organic spectroscopy, it emphasizes real applications--integrating theory as needed--and introduces students to the latest spectroscopic methods. An Instructor's Resource CD-ROM, which includes all of the figures from the text in electronic format and the solutions to all of the exercises and problems from the text (in an editable Word file format), is also available for adopting professors. Please contact your publisher sales representative.

**FEATURES**

- \* **Focus on Structure:** Opens with structural elements and then considers the characteristics, advantages, and disadvantages of spectroscopic methods. Includes coverage of the steps used in determining a molecular structure, the limitations to organic structure determination by spectroscopic methods, and an "Organic Structure Analyses Gone Bad" table (all unique to this text)
- \* **Practical Organization:** Presents the most commonly used methods first, beginning with an overview of strategies, followed by the use of NMR, and then moving on to mass spectrometry, infrared, and ultraviolet
- \* **Innovative Real-World Problem-Solving Approach:** Follows the actual information flow used by chemists to solve molecular structures, as opposed to the standard methods-based approach of other texts
- \* **Unique Chapter (12) Featuring 51 Structure-Solving Problems:** Each problem emphasizes a different method; the problems increase in difficulty throughout the chapter, successively building on students' knowledge and requiring them to integrate multiple methods to identify molecules.

**NEW TO THE SECOND EDITION**

- \* **Coverage of the Latest Instrumental and Computational Advances:** Examines the use of modern instruments, data processing, and computer-assisted structure elucidation techniques
- \* **Updated and Expanded Treatment of NMR (Chapters 2-5):** An extensively revised Chapter 5 discusses multi-pulse 1D and 2D NMR methods, 1D TOCSY and 1D NOESY sequences, and using NOESY and ROESY in determining relative stereochemistry and solution conformation.
- \* **Additional Coverage of Mass Spectrometry:** A new chapter (7) expands the discussion of mass spectrometry to three chapters (6-8). Topics include cutting-edge MS instrumentation and new information on tandem MS techniques, combining NMR with MS, large-molecule MS, chemo-informatics, and more.
- \* **More Exercises and Improved Spectra:** The second edition includes 25% more problems than the previous edition (279 total). In addition, many of the spectra, including all of those presented in Chapters 11 and 12, have been reprocessed or reacquired for greater clarity.

## Book Information

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## Customer Reviews

"Overall this text is more comprehensive and more detailed in introductory descriptions than the classic text in the area, Spectroscopic Methods in Organic Synthesis by Williams and Fleming. It is less of a handbook for PhDs and post-docs and will find its greatest utility as a substantial text for undergraduate teaching. In this respect it is the best around."--David O'Hagen, in Chemistry World  
"The problems given at the conclusion of each chapter, as well as those comprising the entirety of the final two chapters of the book, should prepare any beginning graduate student in a natural products laboratory for the structure elucidation problems that surely lie ahead."--Joshua N. Fletcher, in Journal of Natural Products

Phillip Crews is Professor of Chemistry at the University of California, Santa Cruz. Jaime Rodriguez Gonzalez is Professor of Organic Chemistry at the Universidade da Coruna, Spain. Marcel Jaspars is Professor and Chair of Organic Chemistry at the University of Aberdeen in Scotland.

This was the course textbook we had to get for the class. The whole class struggled with this book. The way it is structured is confusing and I particularly hate the way it is written. I managed to pass the class but it was not thanks to this book. I read previous reviews recommending the Silverstein textbook and I second that thought (I bought it as a back-up and it was a lot less complicated).

I take a spectroscopy graduate course, we use this as textbook. I found there are lots of typos in this book, some are even in the figures and schemes! This book misleads me and makes me frustrated, I don't like it. If your teacher tells you to use this one as textbook for course, just argue that it is not a good one.

The book often had mistakes and issues in the problems provided. Also I felt that the way the material was presented sometimes led to confusion. Over all the book is useful as a learning tool but there are better options out there. I borrowed a different textbook from a friend and actually had more success learning the course material that was designed from this book.

It is often the case that one has to purchase a book just because it is the reference text book for the course. Well, I got this book and I found that they it does not have what it takes to be a reference book. The only reason this book was referred to as the reference text book is because the instructor is friend with that Cruz guy! I am going to sell it when the semester is over, because it is VERY expensive for the cheap information that is included in it. My recommendations: get for example spectrometric identification of organic compounds 7th ed silverstein 2005 or any newer editions. Funny thing is that the second edition of Cruz book is that it has mistakes which were not found in the 1st edition LOL!

Great condition.

I'm taking a spectroscopy class in which we are using this text. I find it to be very poorly written. NMR theory is a very complex subject, however it is made more complex by the MANY errors we have found in the calculations and tables of the book. Some things are also very poorly explained. I'm very disappointed with it, but to be fair, with some supplemental reading you can get a good foundation in NMR with this book. I pity any UG that has to read this.

This book explains absolutely nothing in detail. I ended up having to drop my Organic Spectroscopy class because this book did not go in to detail enough what was required to learn for the class. I had to use 2 other books. The figures have little to no explanation. The HMQC, COSY, etc NMR didn't explain anything. That was covered in half my class and I didn't understand it at all. Tell your professor to choose another book as supplemental material for such a class.

Crews is not a hardcore treatise of the subject. It does not cover the quantum mechanics behind spectroscopy and the complicated mathematical underneath the concept. Instead it discusses the fundamentals and results of such quantum calculations which apply to identification of organic compounds. Basic concepts of nuclear magnetic resonance, infrared spectroscopy, ultra violet spectroscopy are thoroughly covered with examples and charts. Crews is a splendidly-written, straight-forward work that would be suitable for advanced undergraduates who had finished at least one year of organic chemistry, for those who pursue chemical research, and entering grad students.

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