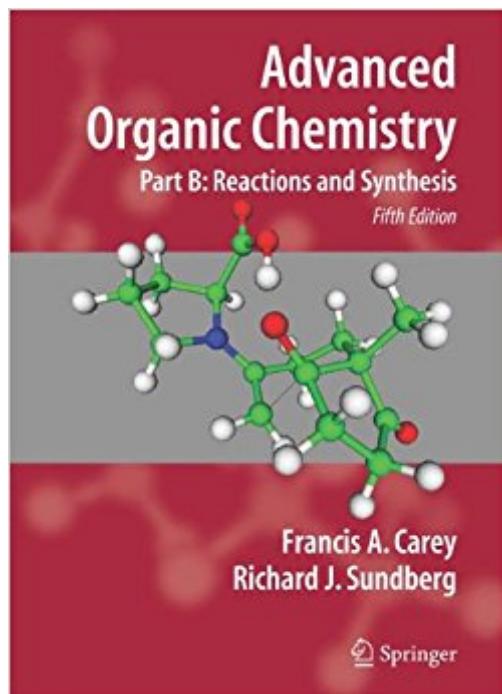


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# Advanced Organic Chemistry: Part B: Reaction And Synthesis



## 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 B describes the most general and useful synthetic reactions, organized on the basis of reaction type. It can stand-alone; together, with Part A: Structure and Mechanisms, the two volumes provide a comprehensive foundation for the study in organic chemistry. Companion websites provide digital models for students and exercise solutions for instructors.

## Book Information

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## Customer Reviews

From the reviews of the fifth edition: "Advanced Organic Chemistry – the well-known textbook for graduate students – has now appeared in a 5th edition. Carey & Sundberg will be interesting to all students who seek a detailed understanding of organic chemistry, and who wish to refresh and embellish their existing knowledge. On the strength of the scope and quality of the explanations, this pair of texts is recommended for use as the resource of first resort for specific research questions in one's later career." ([www.organische-chemie.ch](http://www.organische-chemie.ch), January, 2008)

Francis A. Carey is a native of Pennsylvania, educated in the public schools of Philadelphia, at Drexel University (B.S. in chemistry, 1959), and at Penn State (Ph.D. 1963). Following postdoctoral

work at Harvard and military service, he was appointed to the chemistry faculty of the University of Virginia in 1966. Prior to retiring in 2000, he regularly taught the two-semester lecture courses in general chemistry and organic chemistry. With his students, Professor Carey has published over forty research papers in synthetic and mechanistic organic chemistry. Professor Sundberg is primarily engaged in teaching and chemical education. Along with Francis A. Carey he is the author of "Advanced Organic Chemistry." Professor Sundberg is also interested in synthetic methodology in heterocyclic chemistry and is the author of "Indoles" in the Best Synthetic Methods Series (Academic Press, 1996).

\*Used as textbook for 500-level Synthesis in Organic Chemistry course in graduate school\*Discusses common synthetic reaction families; covers important details of stereoselectivity, stereospecificity, regioselectivity of each reaction. Provides examples that illustrate broad applications of a reaction, from cyclic systems, influence of substituents on reactivity, and differences afforded by reaction conditions/reagents used. The text is used efficiently and provides suitably-specific mechanistic foundations for the reaction families studied.\*Any obscurity created by class lecture notes was cleared by reading the chapter for the reactions in question.\*Cannot recommend more highly.

The information in this book is a little over my head right now, but will be valuable as I climb the academic ladder. I'm currently pursuing a degree in chemical engineering, and this book was recommended by my organic chemistry professor.

A great text, packed full of information. A great deal for the price.

The book remains good

very good book - no problems

This book is actually really good for anyone that's interested in organic chemistry. Carey did great in part A & part B is the same. The book is inexpensive and very thorough so it's a great addition to any synthetic chemist's library.

Good

Strongly recommended to students who already have the basic knowledge and want to further understand the mechanism of organic chemistry reactions. Very well structured to serve this purpose!

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