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Chemistry < Barnard College | Columbia University
Advanced Organic Chemistry: Part B: Reactions and Synthesis Carey, Francis A. Hardcover Publisher:

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Springer Sep 1 1983 Edition: ISBN: 9780306410888

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Advanced Organic Chemistry: Part B: Reaction and Synthesis ...

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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

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organic chemistry. Companion websites provide digital models for students and exercise solutions for instructors.

Since its original appearance in 1977, *Advanced Organic Chemistry* has found wide use as a text providing broad coverage of the structure, reactivity and synthesis of organic compounds. The Fourth Edition provides updated material but continues the essential elements of the previous edition. The material in Part A is organized on the basis of fundamental structural topics such as structure, stereochemistry, conformation and aromaticity and basic mechanistic types, including nucleophilic substitution, addition reactions, carbonyl chemistry, aromatic substitution and free radical reactions. The material in Part B is organized on the basis of reaction type with emphasis on reactions of importance in laboratory synthesis. 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 Fourth Edition updates certain topics that have advanced rapidly in the decade since the Third Edition was published, including computational chemistry, structural manifestations of aromaticity, enantioselective reactions and lanthanide catalysis. The two parts stand alone, although there is considerable cross-referencing. Part A emphasizes quantitative and qualitative description of structural effects on reactivity and mechanism. Part B

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emphasizes the most general and useful synthetic reactions. The focus is on the core of organic chemistry, but the information provided forms the foundation for future study and research in medicinal and pharmaceutical chemistry, biological chemistry and physical properties of organic compounds. The New Revised 5th Edition will be available shortly. For details, click on the link in the right-hand column.

The purpose of this edition, like that of the earlier ones, is to provide the basis for a deeper understanding of the structures of organic compounds and the mechanisms of organic reactions. The level is aimed at advanced undergraduates and beginning graduate students. Our goals are to solidify the student's understanding of basic concepts provided by an introduction to organic chemistry and to present more information and detail, including quantitative information, than can be presented in the first course in organic chemistry. The first three chapters consider the fundamental topics of bonding theory, stereochemistry, and conformation. Chapter 4 discusses the techniques that are used to study and characterize reaction mechanisms. Chapter 9 focuses on aromaticity and the structural basis of aromatic stabilization. The remaining chapters consider basic reaction types, including substituent effects and stereochemistry. As compared to the earlier editions, there has been a modest degree of reorganization. The emergence of free-radical reactions in synthesis has led to the inclusion of certain aspects of free-radical chemistry in Part B. The revised chapter, Chapter 12, emphasizes the distinctive mechanistic and kinetic aspects of free-radical reactions. The

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synthetic applications will be considered in Part B. We have also split the topics of aromaticity and the reactions of aromatic compounds into two separate chapters, Chapters 9 and 10. This may facilitate use of Chapter 9, which deals with the nature of aromaticity, at an earlier stage if an instructor so desires.

A best-selling mechanistic organic chemistry text in Germany, this text's translation into English fills a long-existing need for a modern, thorough and accessible treatment of reaction mechanisms for students of organic chemistry at the advanced undergraduate and graduate level. Knowledge of reaction mechanisms is essential to all applied areas of organic chemistry; this text fulfills that need by presenting the right material at the right level.

The control of reactivity to achieve specific syntheses is one of the overarching goals of organic chemistry. In the decade since the publication of the third edition, major advances have been made in the development of efficient new methods, particularly catalytic processes, and in means for control of reaction stereochemistry. This volume assumes a level of familiarity with structural and mechanistic concepts comparable to that in the companion volume, Part A, Structures and Mechanisms. Together, the two volumes are intended to provide the advanced undergraduate or beginning graduate

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student in chemistry with a sufficient foundation to comprehend and use the research literature in organic chemistry. The New Revised 5th Edition will be available shortly. For details, click on the link in the right-hand column.

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.

Advanced Organic Synthesis: Methods and Techniques presents a survey and systematic introduction to the modern techniques of organic synthesis. The book attempts to acquaint the reader with a variety of laboratory techniques as well as introduce chemical reagents that require deftness and care in handling. Chapters are devoted that discuss the techniques of organic synthesis; apparatus and terminology used in the description of synthetic procedures; the scope and mechanism of chemical reactions; and technical procedures on how to perform chemical experiments. The text will be of vital importance to advanced undergraduate student or beginning graduate student of chemistry.

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From the reviews of the Fourth Edition ... "March has been uncompromising in his search for clarity and utility in presentations of a wide variety of essential organic chemistry. It remains an accessible and useful tool for both specialists and nonspecialists in the field. It does an excellent job both as a text for first-year graduate students and a handy reference for others."-Journal of Chemical Education "The ratio of information to price makes this book a wonderful bargain."-American Scientist

New to this Fifth Edition:

- * Michael Smith from the University of Connecticut joins as coauthor for the Fifth Edition
- * Contains 20,000 valuable, selected references to the primary literature-5,000 new to this edition
- * 40 entirely new sections covering the most important developments in organic chemistry since the previous edition
- * Updated illustrations of molecular structures

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