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Advanced Organic Chemistry - Part B: Reaction and ...
Advanced Organic Chemistry ” by Francis A. Carey and
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graduate students – has now appeared in a 5th edition. The
book is divided into two parts: “ Part A ” with the
fundamentals of the structure of organic compounds and
mechanisms, and “ Part B ” with specific reactions.

Book Review: Advanced Organic Chemistry - Francis A. Carey

...

F. A. Carey, R. J. Sundberg, Advanced Organic Chemistry,
Plenum Publishing Corporation, 2000. N. J. Turro, Modern
Molecular Photochemistry. 1991, University Science Books,
Mill-Valley, ... While reactions of “ normal ground state ”
chemistry are described by the chemical yield of the
reaction as one major indicator (there are others, in ...

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Advanced Organic Chemistry Part A: Structure and ...

“ Carey and Sundberg had written the most detailed and brilliant account in the subject of organic chemistry. ... The book provides an abundance of reaction examples organized in schemes. It makes studying very effective and helpful. ...

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

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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 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 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.

Of Part A.- 1. Chemical Bonding and Molecular Structure.-
1.1. Valence-Bond Approach to Chemical Bonding.- 1.2.

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Bond Energies, Lengths, and Dipoles.- 1.3. Molecular Orbital Theory.- 1.4. Hückel Molecular Orbital Theory.- General References.- Problems.- 2. Stereochemical Principles.- 2.1. Enantiomeric Relationships.- 2.2. Diastereomeric Relationships.- 2.3. Dynamic Stereochemistry.- 2.4. Prochiral Relationships.- General References.- Problems.- 3. Conformational and Other Steric Effects.- 3.1. Steric Strain and Molecular Mechanics.- 3.2. Conformations of Acyclic Molecules.- 3.3. Conformations o.

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 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.

This book, which has become the standard text for graduate students, provides the basis for deeper understanding of the structure of organic compounds and the mechanisms of organic reactions. In this revised volume, the topics of

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Aromaticity and the reactions of aromatic compounds have been divided into two chapters. The chapter on free radical reactions has been reworked to emphasize the distinctive mechanistic and kinetic aspects of these reactions. Part A of this revised, two-volume text provides the reader with a basis for a clearer understanding of the structures of organic compounds and the mechanisms of organic reactions. Carey and Sundberg treat the topics of aromaticity and the reactions of aromatic compounds in two separate chapters and have extensively reworked the chapter on free radical reactions to emphasize their distinctive mechanistic and kinetic aspects.

The main theme of Part B is the description of synthetically useful reactions and the illustration of their application. We have attempted to update the material to reflect the most important advances in synthetic methodology. Because of the extensive developments in the use of organic derivatives of transition metals, as well as of silicon and tin, we have separated the organometallic material into three chapters. Chapter 7 emphasizes organolithium and organomagnesium chemistry and also considers the group IIB metals. Transition metal chemistry is discussed in Chapter 8, with emphasis on copper and palladium intermediates. In Chapter 9, the carbon-carbon bond-forming reactions of organoboranes, silanes, and stannanes are discussed. The increased importance of free-radical reactions in synthesis has led to the incorporation of a section on radical reactions into Chapter 10, in which carbocations, carbenes, and nitrenes are also discussed. Certainly a major advance in synthetic chemistry during the 1980s was the development of methods for enantioselective synthesis. We have increased the level of attention to stereochemistry in the discussion of many reactions. In areas

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in which new stereoselective methods have been well developed, such as in aldol condensa tions, hydroboration, catalytic reduction, and epoxidation, we discuss these methods. The final chapter discusses some of the general issues which must be addressed in multistep synthesis and provides some illustrative syntheses which can provide the basis for more detailed study of this aspect of synthetic chemistry.

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