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Advanced Organic Chemistry by Francis A. Carey and Richard J. Sundberg the well-known textbook for 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, ...

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The two-part, fifth edition of Advanced Organic Chemistry has been substantially revised and reorganized for greater clarity. The

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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.

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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

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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 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.

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

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Intended for students of intermediate organic chemistry, this text shows how to write a reasonable mechanism for an organic chemical transformation. The discussion is organized by types of mechanisms and the conditions under which the reaction is executed, rather than by the overall reaction as is the case in most textbooks. Each chapter discusses common mechanistic pathways and suggests practical tips for drawing them. Worked problems are included in the discussion of each mechanism, and "common error alerts" are scattered throughout the text to warn readers about pitfalls and misconceptions that bedevil students. Each chapter is capped by a large problem set.

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