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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).

The two-part, fifth edition of Advanced Organic Chemistry has

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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.

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

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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

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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.



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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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This survey of advanced chemistry covers virtually all the useful reactions--600 all told--with the scope, limitations, and mechanism of each described in detail. Extensive general sections on the mechanisms of the important reaction types, and five chapters on the structure and stereochemistry of organic compounds and reactive intermediates are included as well. Of the more than 10,000 references included, 5,000 are new in this edition.

Table -- Combination tables --  $^{13}\text{C}$  NMR spectroscopy --  $^1\text{H}$  NMR spectroscopy -- IR spectroscopy -- Mass spectrometry -- UV/Vis spectroscopy.

The new edition of a classic text and reference The large chains of molecules known as polymers are currently used in everything from

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"wash and wear" clothing to rubber tires to protective enamels and paints. Yet the practical applications of polymers are only increasing; innovations in polymer chemistry constantly bring both improved and entirely new uses for polymers onto the technological playing field. Principles of Polymerization, Fourth Edition presents the classic text on polymer synthesis, fully updated to reflect today's state of the art. New and expanded coverage in the Fourth Edition includes: \* Metallocene and post-metallocene polymerization catalysts \* Living polymerizations (radical, cationic, anionic) \* Dendrimer, hyperbranched, brush, and other polymer architectures and assemblies \* Graft and block copolymers \* High-temperature polymers \* Inorganic and organometallic polymers \* Conducting polymers \* Ring-opening polymerization \* In vivo and in vitro polymerization Appropriate for both novice and advanced students

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as well as professionals, this comprehensive yet accessible resource enables the reader to achieve an advanced, up-to-date understanding of polymer synthesis. Different methods of polymerization, reaction parameters for synthesis, molecular weight, branching and crosslinking, and the chemical and physical structure of polymers all receive ample coverage. A thorough discussion at the elementary level prefaces each topic, with a more advanced treatment following. Yet the language throughout remains straightforward and geared towards the student. Extensively updated, Principles of Polymerization, Fourth Edition provides an excellent textbook for today's students of polymer chemistry, chemical engineering, and materials science, as well as a current reference for the researcher or other practitioner working in these areas.

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Kurti and Czako have produced an indispensable tool for specialists and non-specialists in organic chemistry. This innovative reference work includes 250 organic reactions and their strategic use in the synthesis of complex natural and unnatural products. Reactions are thoroughly discussed in a convenient, two-page layout--using full color. Its comprehensive coverage, superb organization, quality of presentation, and wealth of references, make this a necessity for every organic chemist. \* The first reference work on named reactions to present colored schemes for easier understanding \* 250 frequently used named reactions are presented in a convenient two-page layout with numerous examples \* An opening list of abbreviations includes both structures and chemical names \*

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Physics for Molecular Orbitals and Organic Chemical Reactions. Molecular orbital theory is used by chemists to describe the arrangement of electrons in chemical structures. It is also a theory capable of giving some insight into the forces involved in the making and breaking of chemical bonds—the chemical reactions that are often the focus of an organic chemist's interest. Organic chemists with a serious interest in understanding and explaining their work usually express their ideas in molecular orbital terms, so much so that it is now an essential component of every organic chemist's skills to have some acquaintance with molecular orbital theory. Molecular Orbitals and Organic Chemical Reactions is both a simplified account of molecular orbital theory and a review of its applications in organic chemistry; it provides a basic introduction to the subject and a wealth of illustrative examples. In this book

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molecular orbital theory is presented in a much simplified, and entirely non-mathematical language, accessible to every organic chemist, whether student or research worker, whether mathematically competent or not. Topics covered include:

Molecular Orbital Theory  
Molecular Orbitals and the Structures of Organic Molecules  
Chemical Reactions — How Far and How Fast  
Ionic Reactions — Reactivity  
Ionic Reactions — Stereochemistry  
Pericyclic Reactions  
Radical Reactions  
Photochemical Reactions

This expanded Reference Edition of Molecular Orbitals and Organic Chemical Reactions takes the content and the same non-mathematical approach of the Student Edition, and adds extensive extra subject coverage, detail and over 1500 references. The additional material adds a deeper understanding of the models used, and includes a broader range of applications and case studies.



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Providing a complete in-depth reference for a more advanced audience, this edition will find a place on the bookshelves of researchers and advanced students of organic, physical organic and computational chemistry. The student edition of *Molecular Orbitals and Organic Chemical Reactions* presents molecular orbital theory in a simplified form, and offers an invaluable first textbook on this important subject for students of organic, physical organic and computational chemistry. Further information can be viewed [here](#). "These books are the result of years of work, which began as an attempt to write a second edition of my 1976 book *Frontier Orbitals and Organic Chemical Reactions*. I wanted to give a rather more thorough introduction to molecular orbitals, while maintaining my focus on the organic chemist who did not want a mathematical account, but still wanted to understand organic chemistry at a

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physical level. I'm delighted to win this prize, and hope a new generation of chemists will benefit from these books." —Professor Ian Fleming

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