

Strategic Applications Of Named Reactions In Organic Synthesis

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Named reactions and processes are very important to the field of synthetic organic chemistry, and this book contains 250 of them. This book greatly advances the description of both the art and science of chemical synthesis. Suitable for anyone concerned with organic synthesis. Summing up: Highly recommended.

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October 12, 2009 • By azmanam • In synthetic chemistry. It's not often that a book redefines a genre, but Kurti & Czako's Strategic Applications of Named Reactions in Organic Synthesis (2005, Elsevier Academic Press) changes the landscape of named reaction books. Without sounding too melodramatic, Strategic Applications will be the benchmark against which all future named reaction books will be judged – and they will all fail to live up to this new standard.

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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 • Contains more than 10,000 references grouped by seminal papers, reviews, modifications, and theoretical works • Appendices list reactions in order of discovery, group by contemporary usage, and provide additional study tools • Extensive index quickly locates information using words found in text and drawings

Teaches students to use the language of sythesis directly (utilizing the grammar of synthon and disconnection) rather than translating it into that of organic chemistry.

This Second Edition is the premier name resource in the field. It provides a handy resource for navigating the web of named reactions and reagents. Reactions and reagents are listed alphabetically, followed by relevant mechanisms, experimental data (including yields where available), and references to the primary literature. The text also includes three indices based on reagents and reactions, starting materials, and desired products. Organic chemistry professors, graduate students, and undergraduates, as well as chemists working in industrial, government, and other laboratories, will all find this book to be an invaluable reference.

K.C. Nicolaou - Winner of the Nemitsas Prize 2014 in Chemistry This book is a must for every synthetic chemist. With didactic skill and clarity, K. C. Nicolaou and E. Sorensen present the most remarkable and ingenious total syntheses from outstanding synthetic organic chemists. To make the complex strategies more accessible, especially to the novice, each total synthesis is analyzed retrosynthetically. The authors then carefully explain each synthetic step and give hints on alternative methods and potential pitfalls. Numerous references to useful reviews and the original literature make this book an indispensable source of further information. Special emphasis is placed on the skillful use of graphics and schemes: Retrosynthetic analyses, reaction sequences, and stereochemically crucial steps are presented in boxed sections within the text. For easy reference, key intermediates are also shown in the margins. Graduate students and researchers alike will find this book a gold mine of useful information essential for their daily work. Every synthetic organic chemist will want to have a copy on his or her desk.

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 book summarizes 100 essential mechanisms in organic chemistry ranging from classical such as the Reformatsky Reaction from 1887 to recently elucidated mechanism such as the copper(I)-catalyzed alkyne-azide cycloaddition. The reactions are easy to grasp, well-illustrated and underpinned with explanations and additional information.

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Organic Synthesis, Fourth Edition, provides a reaction-based approach to this important branch of organic chemistry. Updated and accessible, this eagerly-awaited revision offers a comprehensive foundation for graduate students coming from disparate backgrounds and knowledge levels, to provide them with critical working knowledge of basic reactions, stereochemistry and conformational principles. This reliable resource uniquely incorporates molecular modeling content, problems, and visualizations, and includes reaction examples and homework problems drawn from the latest in the current literature. In the Fourth Edition, the organization of the book has been improved to better serve students and professors and accommodate important updates in the field. The first chapter reviews basic retrosynthesis, conformations and stereochemistry. The next three chapters provide an introduction to and a review of functional group exchange reactions; these are followed by chapters reviewing protecting groups, oxidation and reduction reactions and reagents, hydroboration, selectivity in reactions. A separate chapter discusses strategies of organic synthesis, and he book then delves deeper in teaching the reactions required to actually complete a synthesis. Carbon-carbon bond formation reactions using both nucleophilic carbon reactions are presented, and then electrophilic carbon reactions, followed by pericyclic reactions and radical and carbene reactions. The important organometallic reactions have been consolidated into a single chapter. Finally, the chapter on combinatorial chemistry has been removed from the strategies chapter and placed in a separate chapter, along with valuable and forward-looking content on green organic chemistry, process chemistry and continuous flow chemistry. Throughout the text, Organic Synthesis, Fourth Edition utilizes Spartan-generated molecular models, class tested content, and useful pedagogical features to aid student study and retention, including Chapter Review Questions, and Homework Problems. PowerPoint® presentations and answer keys are also available online to support instructors. Fully revised and updated throughout, and reorganized into 19 chapters for a more cogent and versatile presentation of concepts Includes reaction examples taken from literature research reported between 2010-2015 Features new full-color art and new chapter content on process chemistry and green organic chemistry Offers valuable study and teaching tools, including Chapter Review Questions and Homework Problems for students; Lecture presentations and other useful material for qualified course instructors

Written by world-renowned and best-selling experts, Nobel Laureate E. J. Corey and Laszlo Kurti, Enantioselective Chemical Synthesis offers an authoritative and comprehensive overview of the field's progress; the processes and tools for key formations; future development for complex, stereocontrolled (enantiomeric or diastereoisomeric) molecules; and valuable examples of multi-step syntheses. Utilizing a color-coded scheme to illustrate chemical transformations, Enantioselective Chemical Synthesis provides clear explanation and guidance through vital asymmetrical syntheses and insight into the next steps for the field. Researchers, professionals, and academics will benefit from this valuable, thorough, and unique resource. In Part I, the authors present clearly, comprehensively and concisely the most useful enantioselective processes available to synthetic chemists. Part II provides an extensive discussion of the most logical ways to apply these new enantioselective methods to the planning of syntheses of stereochemically complex molecules. This hitherto neglected area is essential for the advancement of enantioselective synthesis to a more rational and powerful level. Part III describes in detail many reaction sequences which have been used successfully for the construction of a wide variety of complex target molecules Clearly explains stereochemical synthesis in theory and practiceProvides a handy tool box for scientists wishing to understand and apply chiral chemical synthesisDescribes almost 50 real life examples of asymmetric synthesis in practice and examines how the chiral centers were introduced at key synthetic stages*

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