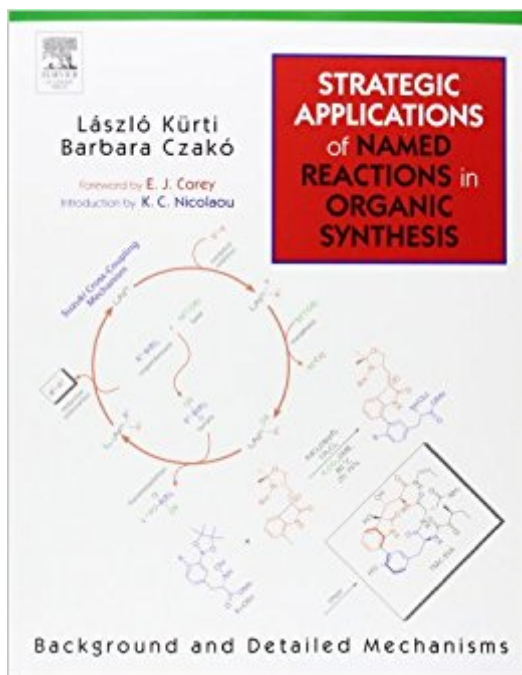


Strategic Applications Of Named Reactions In Organic Synthesis



Synopsis

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

Book Information

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Customer Reviews

"...no other book covers the subject of named reactions in such an up-to-date and comprehensive way, ranging from mechanisms to applications. Despite it's minor weaknesses, I recommend this book most emphatically to interested chemists as a work of reference and source of inspiration."

-Siegfried R. Waldvogel, University of Bonn, Germany, in *ANGEWANDTE CHEMIE*, VOL. 44, 2005

"This book is outstanding in every way, being polished in presentation, sufficiently detailed in explaining the reactions, and possessing almost encyclopedic indexing and referencing."

-JOURNAL OF CHEMICAL EDUCATION "The book would be invaluable to many chemists, students, professors and industrial chemists. Not only will it serve as a text for name reactions, but it is also a review of important mechanisms and an invaluable reference book...It will definitely have a place in the collection of books that are used regularly by all chemists." -Madeleine Joullie, University of Pennsylvania "It is an impressive modern treatise of many important chemical reactions; it was created with great care, and I congratulate the authors on the outstanding contribution that they are making to the literature of organic chemistry...There are several books on 'named reactions', but this one is already my favorite..." -Erik Sorensen, Princeton University, from the Foreword "Beyond introducing the fundamental chemical conversion typical for venerable organic name reaction, this text excels by a clear coverage of mechanisms and superb contemporary examples including an extensive and up-to-date list of references." -Peter Wipf, University of Pittsburgh "The vast wealth of information so effectively compiled in this colorful text will not only prove to be extraordinarily useful to students and practitioners of the art of chemical synthesis, but will also help facilitate the shaping of its future as it moves forward into ever higher levels of complexity, diversity and efficiency." -K.C. Nicolaou, from the Introduction "This extraordinary book was written especially for students by graduate students, but it is far more professional. 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. Lower-division undergraduates through professionals; two-year technical program students. -R.E. Buntrick, formerly, University of Maine, CHOICE, Sep. 2006, Vol. 44 No. 01 "The book version was already popular for its concise and masterful presentation of the most commonly used named reactions in organic chemistry, but immediate access to this valuable source at your fingertips is only one of many benefits that make the app version more appealing than the printed one. In many ways the app platform has allowed the book to come alive with the addition of several useful interactive and search features. The features that have made the textbook so popular are excellently translated to the app version. Clever colour mapping helps the reader to follow each reaction and its proposed mechanism, and the authors thoughtfully selected synthetic applications are just as successful as they were for the book. It is in the reference section where new advances have been made by adding a clickable DOI link for each publication, thus enabling the user to go directly to the primary source. Not surprisingly, the small iPhone screen poses challenges for displaying certain busy overview and mechanism in a way that is comfortable to read and view. This challenge is nicely solved by allowing the user to zoom in at will by simply

tapping twice on the image they wish to view more closely. This app is absolutely fantastic and a must-have companion for synthetic organic chemists. "—Nature Chemistry, Vol. 4, August 2012

The most advanced organic reaction reference work ever written, including 250 extensive color reactions, hundreds of examples and thousands of references, in an organized user-friendly format.

A great book to have everything all together all in one place, especially if you don't have access to scientific journals. If you do, I don't think there's anything in this book you couldn't easily locate in a journal. Each reaction gives a description of the reaction, any problems that must be overcome, describes the work-up, and sometimes a bit of the history. It then shows the reaction with different types of reactants, then the mechanism, and then some examples from the literature. The reactions are color coordinated usually with reactants in blue, catalyst in green, and nucleophile in red. This makes the mechanisms easy to follow. A must have for any organic chemist!

Let me preface this review with: I have a huge library of chemistry related books, of which books relating to named reactions has a prominent footprint. With that said, this is one of the most readable of its kind. Before this, I enjoyed the Jie-Jack Li named reaction book. However, as with all of them, it was just a reference manual. Kurti's, however, is a well thought out "text" with background on each reaction and color coded mechanisms. It is an excellent book for both beginners and PI's. Sick as it may sound, I actually purchased a second copy for home as well as the office. My conclusion is that this is one of maybe 3 named reaction books that make a complete reference set.

I had a retrosynthetic organic chemistry exam today and it was open book. So I brought this book to my exam and it helped a lot to do my exam. This book doesn't help for some of the named reactions that much. But they have provided great in detail what are the references we have to look at and it is really helpful the reaction categories tables at the back of the book. So I would like to recommend this book for anyone who likes to refer more about named reactions and this is very helpful to the people who are interested in synthetic organic chemistry.

gave it to a friend

Very nice. Extremely helpful when studying for my qualifying exams in organic chemistry.

This was by far the best resource for learning named reactions while I was in graduate school. The reactions are organized by name, a quick history of the reaction, with detailed mechanisms, and the necessary references to the original journal articles. Great!

This books makes it easy for referencing reactions as well as learning new ones with a target functional group index in the back. There is also color-coding and reaction mechanisms for each reaction. Maybe I'm young and easily excitable but the inner organic chemist in me wants to squeal in happiness from this book.

A lot of information and reactions very well organized

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