

Synopsis

This book differs from others on name reactions in organic chemistry by focusing on their mechanisms. It covers over 300 classical as well as contemporary name reactions. Biographical sketches for the chemists who discovered or developed those name reactions have been included. Each reaction is delineated by its detailed step-by-step, electron-pushing mechanism, supplemented with the original and the latest references, especially review articles. This book contains major improvements over the previous edition and the subject index is significantly expanded.

Book Information

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Customer Reviews

Some praise for the previous edition: "This is an excellent book for arrow pushing and learning organic name reactions as encountered in graduate school . . . This book contains reactions of all mechanistic classes . . . The book is nicely balanced, containing modern-day reactions for assembly of stereocomplex molecules. Reactions such as the Corey-Bakshi-Shibata reduction are analyzed. This book is a good reference text that fills a void that has existed for some time. It is both an excellent tool for learning and a good reference source." JOURNAL OF CHEMICAL EDUCATION From the reviews of the second edition: "Different from other books on name reactions in organic chemistry this collection focuses on their mechanisms. Each reaction is delineated by its detailed step-by-step, electron-pushing mechanism, supplemented with the original and latest references, especially review article. A good reference book for all chemists

interested in name reactions." (Chemie - das *ÄfÄ*sterrechemische Magazin *fÄfÄ* r Wirtschaft und Wissenschaft, Vol. 104 (4), 2004) "Li has produced the second edition, which includes an additional 16 name reactions, now providing over 300 name reactions *Äçâ -Ä* expanded and updated references; a better index; and a one-sentence description for most name reactions. *Äçâ -Ä* The best books are very reader friendly and this publication is heading in that direction. Organic chemistry researchers, students and teachers will make good use of this book." (Helmut HÄfÄ gel, Chemistry in Australia, April, 2004) "Different from other books on name reaction organic chemistry, Name Reactions, A Collection of Detailed Reaction Mechanisms focuses on their mechanisms. It covers over 300 classical as well as contemporary name reactions. *Äçâ -Ä* it is not only an indispensable resource for senior undergraduate and graduate students for their learning and exams, but also a good reference book for all chemists interested in name reactions." (www.organische-chemie.de, January, 2004)

The third edition contains major improvements over the *Ä Ä* previous edition. In addition to updated references, each reaction is now supplemented with two to three representative examples in synthesis to showcase its synthetic utility. Biographical sketches for the chemists who discovered or developed those name reactions have been included. Furthermore, the subject index is significantly expanded. Different from other books on name reactions in organic chemistry, Name Reactions, A Collection of Detailed Reaction Mechanisms focuses on their mechanisms. It covers over 300 classical as well as contemporary name reactions. Each reaction is delineated by its detailed step-by-step, electron-pushing mechanism, supplemented with the original and the latest references, especially review articles. Thus, it is not only an indispensable resource for senior undergraduate and graduate students for *Ä Ä* learning and exams, but also a good reference book for all chemists interested in name reactions. Some praise for the previous edition: "This is an excellent book for arrow pushing and learning organic name reactions as encountered in graduate school . . . Li *Äçâ -Ä*,,çs book contains reactions of all mechanistic classes . . . The book is nicely balanced, containing modern-day reactions for assembly of stereocomplex molecules. Reactions such as the Corey-Bakshi-Shibata reduction are analyzed. This book is a good reference text that fills a void that has existed for some time. It is both an excellent tool for learning and a good reference source." JOURNAL OF CHEMICAL EDUCATION --This text refers to an alternate Hardcover edition.

This book is a must for any undergrad, graduate student or for that matter, CHEMIST, at any level

who is interested in Name Reactions. It contains 331 name reactions that range from classic organic chemistry to modern day organic chemistry. An excellent collection of important name reactions that is in an easy to read format. Each reaction contains a brief summary, a general reaction scheme and a detailed arrow pushing mechanism. I really like this book because of its contents and simplicity. Its very easy to find the reaction you are looking for and the information is complete. It would be very helpful in studying for advance organic chemistry exams or as a quick reference when you do not know a particular named reaction. The index is about average for this type of book; however, this book is based on the fact that you are looking up named reactions and not using it as a functional group conversion reference. After all is said and done, I can truly say that I am glad I purchased this book. It is a complete summary of named reactions and I look forward to using it in the years to come. Thanks

The third edition is more complete. The mechanism for the Wittig should be noted that it is under debate whether the formation of the oxaphosphatane is concerted or step-wise. Otherwise a good quick reference. For a more in-depth review of Named reactions, see Strategic Applications of Named Reactions in Organic Synthesis. [...]. Too bad that book has not been updated in a while.

Dr. Li has done a great job with this book.....A few mechanisms such as Wildergrodt Reaction leaves out critical steps....but as the entire work is considered...I would say that it is a classic! Kudos, Dr. Li.

It's missing a lot of named reactions. There are much better books out there.

Dr. Li's Name Reactions is a very good but basic name reactions book. It covers the reaction mechanics but does not offer the background information and comprehensive literature references of Laszlo Kurti's and Barbara Czako's *Strategic Applications of Named Reactions in Organic Synthesis*. It is also much sparser and limited than *Name Reactions and Reagents in Organic Synthesis*, which includes examples of the use of the named reactions and also the use and mechanisms of named reagents. Li's book is very good but is limited in comparison to the competitors. It is not a bad book but does not offer the value and utility of the other books named in this review.

This book is fantastic! It has a complete set of every important named reaction with its respective

mechanism and literature references. The simple layout makes this book very user friendly. The mechanisms are easy to follow and the references are very useful making this book excellent for use at any level from undergraduate to graduate and beyond. This book is a definite must have for anyone studying advanced organic chemistry, as it is the named reactions bible.

this book is a really great resource for organic chemists. it has all the main name reactions in alphabetical order, and does a good job showing not only the overall reaction, but also the step-by-step mechanism as well. it also has references listed for each reaction, for further clarification. i recommend it for any organic chemist as part of their library.

This book is nice for writing the basics of mechanism. There are some other books available in market. But I will recommend this book because they are short and concise. This third edition is more or less similar to second edition.

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