



Name Reactions: A Collection of Detailed Mechanisms and Synthetic Applications

By Jie Jack Li

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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.

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Editorial Review

Review

Reviews of the Fourth Edition:

"This is the 4th edition of a classic collection of organic reactions which have been named after the original chemist with which they are associated. It now covers over 300 classical and contemporary name reactions. Each entry includes the name of the reaction, a short description, the step-by-step mechanism, two to three representative examples and a list of references, updated in many cases up to 2009. Biographical sketches for the chemists who discovered or developed those name reactions have been included.

A useful resource for senior undergraduate and graduate students for learning and exams, but also a good reference book for all organic chemists." **Gordon Fisher**, *Chemistry World*, December, 2009.

Aus den Rezensionen zur 3. Auflage:

"... massgeblich erweitert! ... interessant zu lesen ... Gegenüber der zweiten Auflage wird der Platz effektiver genutzt ... 'Name Reactions' ist ein äusserst nützliches Buch, um einen ersten Einstieg zu einer Vielzahl an wichtigen ... aktuellen Namensreaktionen zu erhalten. Die mechanistischen Erläuterungen in Form von ausgezeichneten Schemen sind darüber hinaus eine Grundlage für den fortgeschrittenen Studenten, diese Mechanismen zu üben. Gegenüber der zweiten Auflage wurden ... Fehler korrigiert, so dass das Buch ... unter dem Gesichtspunkt der gelungenen Erweiterungen - zum Kauf empfohlen werden kann!"

(<http://www.organische-chemie.ch/Buch/3540300309.htm>)

From the Back Cover

The fourth edition is revolutionary in comparison to the previous three editions. The format change has doubled the space to accommodate at least two to three real case applications in synthesis for each name reaction. The references are updated to 2009. Several new name reactions and reagents are included to reflect the state-of-the-art of organic chemistry. Unlike other books on name reactions in organic chemistry, Name Reactions, A Collection of Detailed Reaction Mechanisms and Synthetic Applications 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. Now with addition of many synthetic applications, it is not only an indispensable resource for senior undergraduate and graduate students for learning and exams, but also a good reference book for all organic chemists interested in name reactions.

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Jennifer Lewis:

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