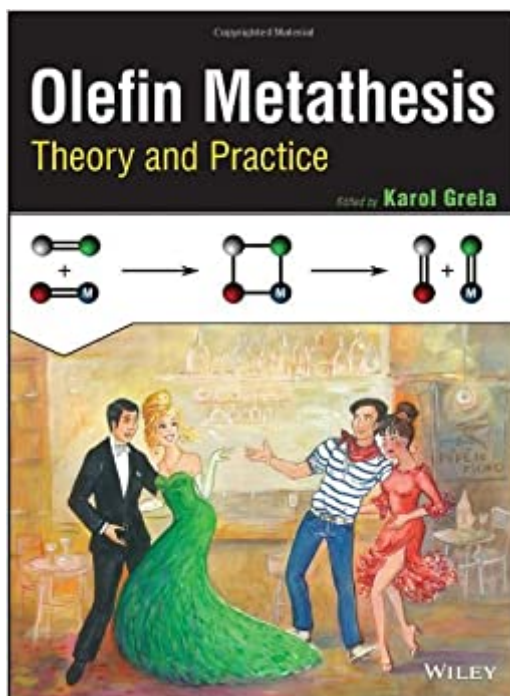


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Olefin Metathesis: Theory And Practice



Synopsis

This is a complete examination of the theory and methods of modern olefin metathesis, one of the most widely used chemical reactions in research and industry. Provides basic information for non-specialists, while also explaining the latest trends and advancements in the field to experts. Discusses the various types of metathesis reactions, including CM, RCM, enyne metathesis, ROMP, and tandem processes, as well as their common applications. Outlines the tools of the trade—from the important classes of active metal complexes to optimal reaction conditions—and suggests practical solutions for common reaction problems. Includes tables with structures of commercial catalysts, and recommendations for commercial catalyst suppliers.

Book Information

Hardcover: 608 pages

Publisher: Wiley; 1 edition (May 19, 2014)

Language: English

ISBN-10: 1118207947

ISBN-13: 978-1118207949

Product Dimensions: 8.8 x 1.5 x 11.3 inches

Shipping Weight: 3.6 pounds (View shipping rates and policies)

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Customer Reviews

“In summary, this excellent book, whose artistic eye-catching cover is very elegant, will serve as a perfect companion to chemistry students for gaining a solid basic knowledge of modern metathesis, and also for researchers seeking an in-depth treatment of a specific metathesis topic. It will undoubtedly find its place on our bookshelves and in university and industrial libraries.” (Angew. Chem. Int. Ed, 1 February 2015)

A complete examination of modern olefin metathesis, one of the most widely used chemical reactions. Garnering the 2005 Nobel Prize in chemistry for its discoverers, olefin metathesis has gained widespread use in research and industry for making products like medicines, polymers, and

enhanced fuels. Olefin Metathesis offers a comprehensive analysis of the field, providing basic and necessary information for non-specialists while explaining the latest trends and advancements for experts. Acting as a guidebook, chapters include in-depth discussion on essential topics: Various types of metathesis reactions like CM, RCM, enyne metathesis, ROMP, and tandem processes, as well as their applications Tools of the trade, from the important classes of active metal complexes to optimal reaction conditions Tips to help chemists choose the right catalysts and determine substrate scope Select and representative procedures for each metathesis class Practical solutions and explanations for common reaction problems Included at the end of the book are tables with structures of commercial catalysts and recommendations for catalyst suppliers. With contributions from a multinational group of leading experts and practitioners in the field, this is an essential compendium for chemists at all levels.

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