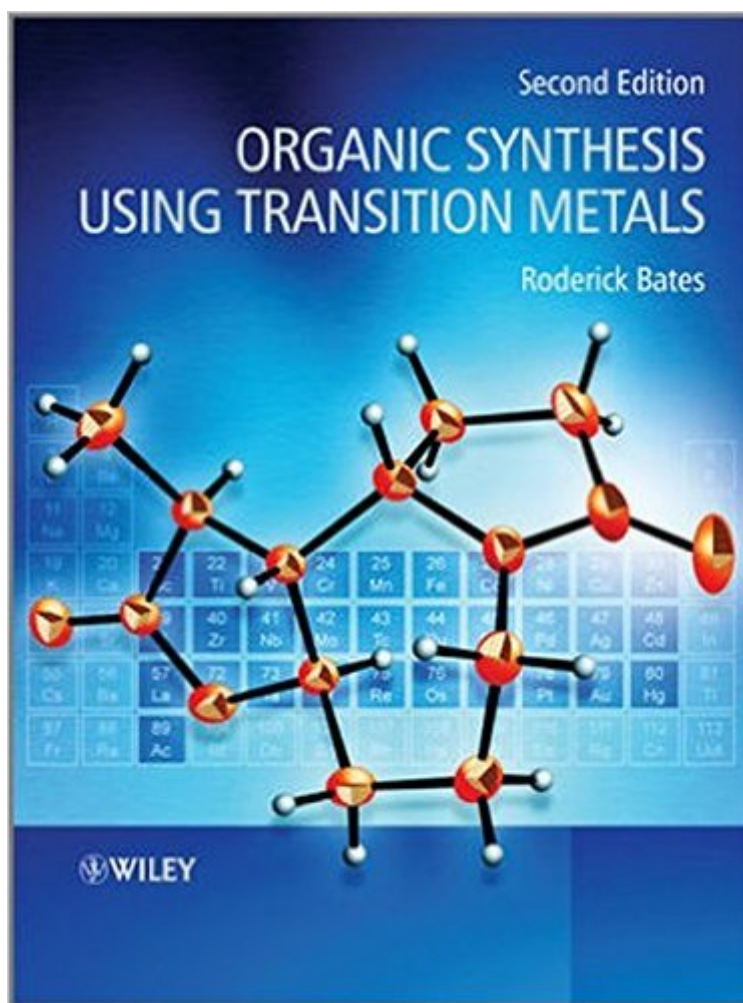


The book was found

Organic Synthesis Using Transition Metals



Synopsis

Transition metals open up new opportunities for synthesis, because their means of bonding and their reaction mechanisms differ from those of the elements of the s and p blocks. In the last two decades the subject has mushroomed - established reactions are seeing both technical improvements and increasing numbers of applications, and new reactions are being developed. The practicality of the subject is demonstrated by the large number of publications coming from the process development laboratories of pharmaceutical companies, and its importance is underlined by the fact that three Nobel prizes have been awarded for discoveries in this field in the 21st Century already. *Organic Synthesis Using Transition Metals, 2nd Edition* considers the ways in which transition metals, as catalysts and reagents, can be used in organic synthesis, both for pharmaceutical compounds and for natural products. It concentrates on the bond-forming reactions that set transition metal chemistry apart from "classical" organic chemistry. Each chapter is extensively referenced and provides a convenient point of entry to the research literature. Topics covered include: introduction to transition metals in organic synthesis coupling reactions C-H activation carbonylative coupling reactions alkene and alkyne insertion reactions electrophilic alkene and alkyne complexes reactions of alkyne complexes carbene complexes η^3 - or η^5 -allyl complexes diene, dienyl and arene complexes cycloaddition and cycloisomerisation reactions For this second edition the text has been extensively revised and expanded to reflect the significant improvements and advances in the field since the first edition, as well as the large number of new transition metal-catalysed processes that have come to prominence in the last 10 years - for example the extraordinary progress in coupling reactions using σ -allyl ligands, catalysis using gold complexes, new opportunities arising from metathesis chemistry, and C-H activation - without neglecting the well established chemistry of metals such as palladium. *Organic Synthesis Using Transition Metals, 2nd Edition* will find a place on the bookshelves of advanced undergraduates and postgraduates working in organic synthesis, catalysis, medicinal chemistry and drug discovery. It is also useful for practising researchers who want to refresh and enhance their knowledge of the field.

Book Information

Paperback: 462 pages

Publisher: Wiley; 2 edition (April 30, 2012)

Language: English

ISBN-10: 1119978939

ISBN-13: 978-1119978930

Product Dimensions: 7.4 x 0.8 x 9.7 inches

Shipping Weight: 1.8 pounds (View shipping rates and policies)

Average Customer Review: Be the first to review this item

Best Sellers Rank: #3,358,743 in Books (See Top 100 in Books) #70 in Books > Science & Math > Chemistry > Organic > Organometallic Compounds #1580 in Books > Science & Math > Chemistry > Industrial & Technical #8332 in Books > Textbooks > Science & Mathematics > Chemistry

[Download to continue reading...](#)

Organic Synthesis Using Transition Metals Transition Metals in the Synthesis of Complex Organic Molecules Edexcel A2 Chemistry Student Unit Guide (New Edition): Unit 5 Transition Metals and Organic Nitrogen Chemistry The Organic Chemistry of Drug Synthesis, Volume 3 (Organic Chemistry Series of Drug Synthesis) The Organometallic Chemistry of the Transition Metals The Organometallic Chemistry of the Transition Metals, 4th Edition The Organometallic Chemistry of the Transition Metals, 2nd Edition Poverty in Transition and Transition in Poverty: Recent Developments in Hungary, Bulgaria, Romania, Georgia, Russia, and Mongolia Ace Organic Chemistry I: The EASY Guide to Ace Organic Chemistry I: (Organic Chemistry Study Guide, Organic Chemistry Review, Concepts, Reaction Mechanisms and Summaries) Organic Body Care Recipes Box Set: Organic Body Scrubs, Organic Lip Balms, Organic Body Butter, And Natural Skin Care Recipes Cycloaddition Reactions in Organic Synthesis, Volume 8 (Tetrahedron Organic Chemistry) Hetero Diels-Alder Methodology in Organic Synthesis (Organic Chemistry) Organic Synthesis using Samarium Diiodide: A Practical Guide Organic Synthesis Using Biocatalysis Organic Homemade Lotion Recipes - For All Skin Types (The Best Lotion DIY Recipes): Lotion Making For Beginners (organic lawn care manual, organic skin care, beauty and the beast) Organic Home Remedies Vol.2 - The BEST No Prescription Needed Guide to Using Natural Remedies to Cure and Detoxify Your Self (Organic Home Remedies Guide, ... Healing, No Prescription Medicines) The Handbook of Alternative Assets: Making money from art, rare books, coins and banknotes, forestry, gold and precious metals, stamps, wine and other alternative assets The Definitive Guide To Storing Gold & Silver: Must Know Secrets To Insuring The Safety Of Your Metals & Yourself The Beginner's Guide to Gold and Silver Scrap: Basic Fundamentals for Buying Scrap Precious Metals Rare: The High-Stakes Race to Satisfy Our Need for the Scarcest Metals on Earth

[Dmca](#)