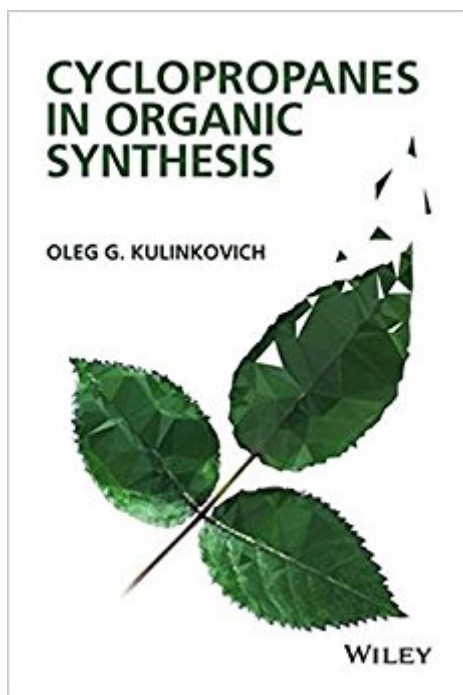


The book was found

Cyclopropanes In Organic Synthesis



Synopsis

This is a practical guidebook about cyclopropanes that thoroughly surveys derivatives and transformations, synthetic methods, and experimental efficiency as a gateway for further research and development in the field.

- Provides comprehensive lists and synthetically-oriented synopses of cyclopropane chemistry review references along with publication data on applications in the syntheses of natural and related biologically active compounds
- Acts as a resource to help readers better understand cyclopropane applications for the efficient realization of synthetically important organic transformations and popular experimental procedures
- Includes new developments and up-to-date information that will lead to original methodologies for complex organic synthesis
- Stresses universality, flexibility, and experimental efficiency of a strategy based on preparing cyclopropane derivatives and performing ring cleavage reactions with inexpensive reagents
- Focuses on the synthetic potential of cyclopropane applications, for example the synthesis of natural compounds and other target-oriented syntheses via cyclopropane intermediaries, as well on their planning by retrosynthetic analysis

Book Information

Hardcover: 432 pages

Publisher: Wiley; 1 edition (November 2, 2015)

Language: English

ISBN-10: 1118057430

ISBN-13: 978-1118057438

Product Dimensions: 6 x 1.3 x 9.3 inches

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

Average Customer Review: Be the first to review this item

Best Sellers Rank: #4,317,305 in Books (See Top 100 in Books) #76 in Books > Science & Math > Chemistry > Organic > Synthesis #1214 in Books > Science & Math > Chemistry > Physical & Theoretical > Physical Chemistry #2084 in Books > Science & Math > Chemistry > Industrial & Technical

Customer Reviews

Used in total synthesis of natural products and other complex molecules, cyclopropanes can be conveniently prepared with different approaches and used as intermediates to make target-directed organic transformations more efficient. The synthetic potential of cyclopropane derivatives is often overlooked but is nonetheless universal and could be more efficient than standard approaches. This

book provides a comprehensive review of cyclopropanes – their properties, preparation, synthesis, and applications. It includes comprehensive references and synopses of review articles on experimental data and theoretical interpretations of the geometry of cyclopropanes and also discusses typical transformations of substituted cyclopropanes, derivatives, and intermediates, with emphasis on highly selective transformations of easily available cyclopropane precursors. The author provides a detailed description of successful applications of cyclopropane approaches in target-oriented syntheses classified by the class of the target structures and transformation type, and mode of the activation of the cyclopropane ring toward its cleavage. Overall, the book stresses universality, experimental efficiency, and strategic importance of synthetic methodologies based on an efficient preparation of cyclopropane derivatives and their involvement in smooth ring opening or fragmentation reactions with inexpensive reagents. A valuable guide for practicing chemists, this book offers key features that include:

- A resource to help readers better understand cyclopropane applications for the efficient realization of synthetically important organic transformations and popular experimental procedures
- New developments and up-to-date information that will lead to original methodologies for complex organic synthesis
- Focus on the synthetic potential of cyclopropane applications, as well on their planning by retrosynthetic analysis

Oleg Kulinkovich was the head of the Department of Organic Chemistry from 1993-2003 and the head of the Laboratory of Organoelement Synthesis at Belarusian State University and visiting professor at Tallinn University of Technology. His seminal work on titanium-catalyzed cyclopropanation of carboxylic esters with Grignard reagents bearing β -hydrogen atoms (Kulinkovich reaction) is very well-known. Dr. Kulinkovich has published several reviews and original articles on organic synthesis in leading international journals.

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

Handbook of Reagents for Organic Synthesis: Reagents for Heteroarene Synthesis (Hdbk of Reagents for Organic Synthesis) Cyclopropanes in Organic Synthesis Modern Catalytic Methods for Organic Synthesis with Diazo Compounds: From Cyclopropanes to Ylides The Organic Chemistry of Drug Synthesis, Volume 3 (Organic Chemistry Series of Drug Synthesis) Study Guide: Ace Organic Chemistry I - The EASY Guide to Ace Organic Chemistry I: (Organic Chemistry Study Guide, Organic Chemistry Review, Concepts, Reaction Mechanisms and Summaries) Advanced Organic Chemistry: Part B: Reaction and Synthesis: Reaction and Synthesis Pt. B Cycloaddition Reactions in Organic Synthesis, Volume 8 (Tetrahedron Organic Chemistry) 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) Landmarking and
Segmentation of 3D CT Images (Synthesis Lectures on Biomedical Engineering Synthesis Lectu)
Advanced Organic Chemistry: Part B: Reaction and Synthesis Strategic Applications of Named
Reactions in Organic Synthesis Signposts to Chiral Drugs: Organic Synthesis in Action
Fundamentals and Applications of Organic Electrochemistry: Synthesis, Materials, Devices
Transition Metals in the Synthesis of Complex Organic Molecules Organic Synthesis: The Roles of
Boron and Silicon (Oxford Chemistry Primers) Organic Synthesis Using Transition Metals The
Chemistry of Metal-Organic Frameworks: Synthesis, Characterization, and Applications
Organolithiums: Selectivity for Synthesis, Volume 23 (Tetrahedron Organic Chemistry) Transition
Metals in Organic Synthesis: A Practical Approach (The Practical Approach in Chemistry Series)
Organometallics in Organic Synthesis (Volume 1)

[Contact Us](#)

[DMCA](#)

[Privacy](#)

[FAQ & Help](#)