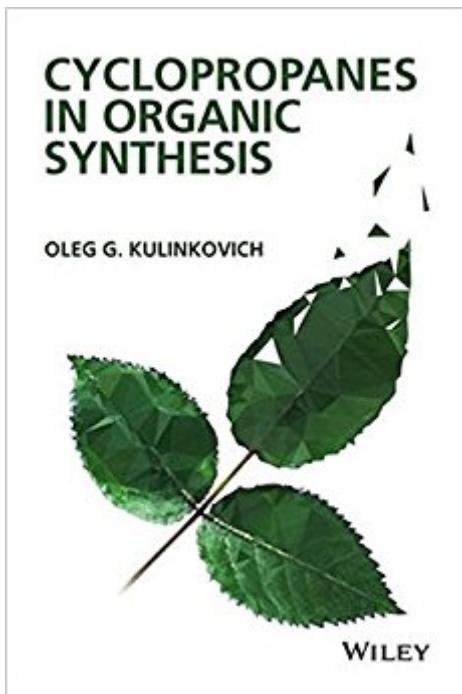


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# Cyclopropanes In Organic Synthesis



## 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

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## 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 — hydrogen atoms (Kulinkovich reaction) is very well-known. Dr. Kulinkovich has published several reviews and original articles on organic synthesis in leading international journals.

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