



Paul Wyatt · Stuart Warren

Workbook for ORGANIC SYNTHESIS

Strategy and Control

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Organic Synthesis Paul Wyatt, Stuart Warren, 2013-05-20 Organic Synthesis Strategy and Control is a sequel to Stuart Warren's bestseller Organic Synthesis The Disconnection Approach. The Disconnection book concentrated on the planning behind the synthesis of compounds. The two themes of this new book are strategy and control: solving problems either by finding an alternative strategy or by controlling any established strategy to make it work. The book is divided into five sections that deal with selectivity: carbon-carbon single bonds, carbon-carbon double bonds, stereochemistry, and functional group strategy. Interpenetrating this structure, the 36 chapters start with classic methods and progress to modern methods and modern strategic considerations. Heterocyclic chemistry is treated throughout the book with full mechanistic explanations as part of organic chemistry rather than a separate mystery. A comprehensive practical account of the key concepts involved in synthesising compounds. Takes a mechanistic approach which explains reactions and gives guidelines on how reactions might behave in different situations. Focuses on reactions that really work rather than those with limited application. Extensive up-to-date references in each chapter. Students and professional chemists familiar with Organic Synthesis The Disconnection Approach will enjoy the leap into a book designed for chemists at the coalface of organic synthesis.

Workbook for Organic Synthesis Paul Wyatt, Stuart Warren, 2008-07-08 This workbook accompanies Organic Synthesis Strategy and Control, the bestselling advanced organic textbook. Provides a complete course for advanced organic students and includes a graded set of problems, solutions, and discussions to illustrate and develop the themes of each of the chapters in the textbook.

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uniquely incorporates molecular modeling content problems and visualizations and includes reaction examples and homework problems drawn from the latest in the current literature There have been advancements in organic reactions particularly organometallic reactions and there is a need to show how these advancements have influenced current organic synthesis The goal is to revise and update the examples of reaction examples taken from the synthesis literature from about 2017 2023 The reactions illustrate those that are used most often in modern organic synthesis but recent examples will show their current relevance Where new approaches and new reactions have been developed for organic synthesis examples will be added as new material Provides new content reaction examples and study problems from recent research Features improved organization new art and new chapter content on process chemistry and green organic chemistry Includes revised homework for each chapter with new examples and questions

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