



# Workbook for Organic Synthesis: The Disconnection Approach

By Stuart Warren, Paul Wyatt

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One approach to organic synthesis is retrosynthetic analysis. With this approach chemists start with the structures of their target molecules and progressively cut bonds to create simpler molecules. Reversing this process gives a synthetic route to the target molecule from simpler starting materials. This “disconnection” approach to synthesis is now a fundamental part of every organic synthesis course.

## Workbook for Organic Synthesis: The Disconnection Approach, 2<sup>nd</sup> Edition

This workbook provides a comprehensive graded set of problems to illustrate and develop the themes of each of the chapters in the textbook *Organic Synthesis: The Disconnection Approach, 2<sup>nd</sup> Edition*. Each problem is followed by a fully explained solution and discussion. The examples extend the student’s experience of the types of molecules being synthesised by organic chemists, and the strategies they employ to control their syntheses. By working through these examples students will develop their skills in analysing synthetic challenges, and build a toolkit of strategies for planning new syntheses. Examples are drawn from pharmaceuticals, agrochemicals, natural products, pheromones, perfumery and flavouring compounds, dyestuffs, monomers, and intermediates used in more advanced synthetic work. Reasons for wishing to synthesise each compound are given. Together the workbook and textbook provide a complete course in retrosynthetic analysis.

## Organic Synthesis: The Disconnection Approach, 2<sup>nd</sup> Edition

There are forty chapters in *Organic Synthesis: The Disconnection Approach, 2<sup>nd</sup> Edition*: those on the synthesis of given types of molecules alternate with strategy chapters in which the methods just learnt are placed in a wider context. The synthesis chapters cover many ways of making each type of molecule starting with simple aromatic and aliphatic compounds with one functional group and progressing to molecules with many functional groups. The strategy chapters cover questions of selectivity, protection, stereochemistry, and develop more advanced thinking via reagents specifically designed for difficult problems. In its second edition updated examples and techniques are included and illustrated

additional material has been added to take the student to the level required by the sequel, *Organic Synthesis: Strategy and Control*. Several chapters contain extensive new material based on courses that the authors give to chemists in the pharmaceutical industry.

*Workbook for Organic Synthesis: The Disconnection Approach, 2<sup>nd</sup> edition*, combined with the main textbook, provides a full course in retrosynthetic analysis for chemistry and biochemistry students, and a refresher course for organic chemists working in industry and academia.

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### Editorial Review

#### Review

"The book provides an excellent and pragmatic panorama of the various aspects of disconnective strategies, whilst keeping in mind the importance of protective strategies." (*Reviews*, December 2010)

#### From the Back Cover

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**Candace Hernandez:**

Workbook for Organic Synthesis: The Disconnection Approach can be one of your basic books that are good idea. We recommend that straight away because this reserve has good vocabulary that can increase your knowledge in words, easy to understand, bit entertaining however delivering the information. The writer giving his/her effort to get every word into delight arrangement in writing Workbook for Organic Synthesis: The Disconnection Approach but doesn't forget the main place, giving the reader the hottest and based confirm resource details that maybe you can be certainly one of it. This great information can easily draw you into completely new stage of crucial contemplating.

**Bethany Zuniga:**

The book untitled Workbook for Organic Synthesis: The Disconnection Approach contain a lot of information on the idea. The writer explains the girl idea with easy technique. The language is very clear to see all the people, so do definitely not worry, you can easy to read that. The book was written by famous author. The author gives you in the new period of time of literary works. You can actually read this book because you can read more your smart phone, or program, so you can read the book in anywhere and anytime. In a situation you wish to purchase the e-book, you can start their official web-site and order it. Have a nice go through.

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