



# Introduction to Strategies for Organic Synthesis

By Laurie S. Starkey

Download now

Read Online ➔

**Introduction to Strategies for Organic Synthesis** By Laurie S. Starkey

**The stepping-stone text for students with a preliminary knowledge of organic chemistry looking to move into organic synthesis research and graduate-level coursework**

Organic synthesis is an advanced but important field of organic chemistry, however resources for advanced undergraduates and graduate students moving from introductory organic chemistry courses to organic synthesis research are scarce. *Introduction to Strategies for Organic Synthesis* is designed to fill this void, teaching practical skills for making logical retrosynthetic disconnections, while reviewing basic organic transformations, reactions, and reactivities.

Divided into seven parts that include sections on Retrosynthesis and Protective Groups; Overview of Organic Transformations; Synthesis of Monofunctional Target Molecules; Synthesis of Target Molecules with Two Functional Groups; Synthesis of Aromatic Target Molecules; Synthesis of Compounds Containing Rings; and Predicting and Controlling Stereochemistry, the book covers everything students need to successfully perform retrosynthetic analyses of target molecule synthesis.

Starting with a review of functional group transformations, reagents, and reaction mechanisms, the book demonstrates how to plan a synthesis, explaining functional group analysis and strategic disconnections. Incorporating a review of the organic reactions covered, it also demonstrates each reaction from a synthetic chemist's point of view, to provide students with a clearer understanding of how retrosynthetic disconnections are made.

Including detailed solutions to over 300 problems, worked-through examples and end-of-chapter comprehension problems, *Introduction to Strategies for Organic Synthesis* serves as a stepping stone for students with an introductory knowledge of organic chemistry looking to progress to more advanced synthetic concepts and methodologies.

 [\*\*Download\*\* Introduction to Strategies for Organic Synthesis ...pdf](#)

 [\*\*Read Online\*\* Introduction to Strategies for Organic Synthesis ...pdf](#)

# Introduction to Strategies for Organic Synthesis

By Laurie S. Starkey

**Introduction to Strategies for Organic Synthesis** By Laurie S. Starkey

**The stepping-stone text for students with a preliminary knowledge of organic chemistry looking to move into organic synthesis research and graduate-level coursework**

Organic synthesis is an advanced but important field of organic chemistry, however resources for advanced undergraduates and graduate students moving from introductory organic chemistry courses to organic synthesis research are scarce. *Introduction to Strategies for Organic Synthesis* is designed to fill this void, teaching practical skills for making logical retrosynthetic disconnections, while reviewing basic organic transformations, reactions, and reactivities.

Divided into seven parts that include sections on Retrosynthesis and Protective Groups; Overview of Organic Transformations; Synthesis of Monofunctional Target Molecules; Synthesis of Target Molecules with Two Functional Groups; Synthesis of Aromatic Target Molecules; Synthesis of Compounds Containing Rings; and Predicting and Controlling Stereochemistry, the book covers everything students need to successfully perform retrosynthetic analyses of target molecule synthesis.

Starting with a review of functional group transformations, reagents, and reaction mechanisms, the book demonstrates how to plan a synthesis, explaining functional group analysis and strategic disconnections. Incorporating a review of the organic reactions covered, it also demonstrates each reaction from a synthetic chemist's point of view, to provide students with a clearer understanding of how retrosynthetic disconnections are made.

Including detailed solutions to over 300 problems, worked-through examples and end-of-chapter comprehension problems, *Introduction to Strategies for Organic Synthesis* serves as a stepping stone for students with an introductory knowledge of organic chemistry looking to progress to more advanced synthetic concepts and methodologies.

## **Introduction to Strategies for Organic Synthesis** By Laurie S. Starkey Bibliography

- Sales Rank: #1088511 in Books
- Published on: 2012-02-21
- Original language: English
- Number of items: 1
- Dimensions: 9.30" h x .80" w x 6.20" l, 1.12 pounds
- Binding: Paperback
- 360 pages

 [Download Introduction to Strategies for Organic Synthesis ...pdf](#)

 [Read Online Introduction to Strategies for Organic Synthesis ...pdf](#)



## **Editorial Review**

### Review

“Finally, my overall impression of the book is that it will serve well as a quick reference or starting point for an undergraduate researcher or new PhD student in organic synthesis. It is essentially a back-to-basics textbook and there may even be something there for the odd academic who needs some inspiration when handed a new teaching assignment in an undergraduate subject in organic synthesis.” (*Angewandte Chemie*, 1 September 2012)

“I will certainly be recommending it to my own students.” (*ChemMedChem*, 1 January 2013)

“Summing Up: Recommended. Lower-and upper-division undergraduates.” (*Choice*, 1 November 2012)

### From the Back Cover

**The stepping-stone text for students with a preliminary knowledge of organic chemistry looking to move into organic synthesis research and graduate-level coursework**

Organic synthesis is an advanced but important field of organic chemistry, however resources for advanced undergraduates and graduate students moving from introductory organic chemistry courses to organic synthesis research are scarce. *Introduction to Strategies for Organic Synthesis* is designed to fill this void, teaching practical skills for making logical retrosynthetic disconnections, while reviewing basic organic transformations, reactions, and reactivities.

Divided into seven parts that include sections on Retrosynthesis and Protective Groups; Overview of Organic Transformations; Synthesis of Monofunctional Target Molecules; Synthesis of Target Molecules with Two Functional Groups; Synthesis of Aromatic Target Molecules; Synthesis of Compounds Containing Rings; and Predicting and Controlling Stereochemistry, the book covers everything students need to successfully perform retrosynthetic analyses of target molecule synthesis.

Starting with a review of functional group transformations, reagents, and reaction mechanisms, the book demonstrates how to plan a synthesis, explaining functional group analysis and strategic disconnections. Incorporating a review of the organic reactions covered, it also demonstrates each reaction from a synthetic chemist's point of view, to provide students with a clearer understanding of how retrosynthetic disconnections are made.

Including detailed solutions to over 300 problems, worked-through examples and end-of-chapter comprehension problems, *Introduction to Strategies for Organic Synthesis* serves as a stepping stone for students with an introductory knowledge of organic chemistry looking to progress to more advanced synthetic concepts and methodologies.

### About the Author

**Laurie S. Starkey**, PHD, is a Full Professor of Chemistry at California State Polytechnic University, Pomona, where she has been teaching organic chemistry and organic synthesis since 1996. Dr. Starkey

earned the College of Science's Distinguished Teaching Award in 2000 and the Provost's Award in Teaching Excellence at Cal Poly Pomona in 2013. Her research interests lie in the area of chemical education, including the development and assessment of online learning tools and the creation of educational videos for YouTube and Educator.com.

## **Users Review**

### **From reader reviews:**

#### **Darren Marshall:**

Why don't make it to become your habit? Right now, try to ready your time to do the important behave, like looking for your favorite guide and reading a e-book. Beside you can solve your short lived problem; you can add your knowledge by the book entitled Introduction to Strategies for Organic Synthesis. Try to the actual book Introduction to Strategies for Organic Synthesis as your good friend. It means that it can being your friend when you sense alone and beside associated with course make you smarter than ever. Yeah, it is very fortunated for yourself. The book makes you considerably more confidence because you can know anything by the book. So , we should make new experience and also knowledge with this book.

#### **Sarah Maddocks:**

Information is provisions for individuals to get better life, information presently can get by anyone on everywhere. The information can be a know-how or any news even an issue. What people must be consider while those information which is inside former life are challenging to be find than now is taking seriously which one is suitable to believe or which one the resource are convinced. If you obtain the unstable resource then you understand it as your main information you will see huge disadvantage for you. All those possibilities will not happen within you if you take Introduction to Strategies for Organic Synthesis as the daily resource information.

#### **Lawrence Richardson:**

Reading can called head hangout, why? Because when you are reading a book especially book entitled Introduction to Strategies for Organic Synthesis your mind will drift away trough every dimension, wandering in each and every aspect that maybe unknown for but surely will end up your mind friends. Imaging each and every word written in a e-book then become one application form conclusion and explanation which maybe you never get previous to. The Introduction to Strategies for Organic Synthesis giving you an additional experience more than blown away your brain but also giving you useful details for your better life within this era. So now let us show you the relaxing pattern the following is your body and mind are going to be pleased when you are finished looking at it, like winning an activity. Do you want to try this extraordinary shelling out spare time activity?

#### **Cynthia Barksdale:**

That reserve can make you to feel relax. This kind of book Introduction to Strategies for Organic Synthesis was bright colored and of course has pictures on there. As we know that book Introduction to Strategies for

Organic Synthesis has many kinds or variety. Start from kids until adolescents. For example Naruto or Investigation company Conan you can read and believe you are the character on there. So , not at all of book are usually make you bored, any it offers up you feel happy, fun and rest. Try to choose the best book for you and try to like reading in which.

**Download and Read Online Introduction to Strategies for Organic Synthesis By Laurie S. Starkey #7SI85UQROK3**

## **Read Introduction to Strategies for Organic Synthesis By Laurie S. Starkey for online ebook**

Introduction to Strategies for Organic Synthesis By Laurie S. Starkey Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Introduction to Strategies for Organic Synthesis By Laurie S. Starkey books to read online.

### **Online Introduction to Strategies for Organic Synthesis By Laurie S. Starkey ebook PDF download**

**Introduction to Strategies for Organic Synthesis By Laurie S. Starkey Doc**

**Introduction to Strategies for Organic Synthesis By Laurie S. Starkey Mobipocket**

**Introduction to Strategies for Organic Synthesis By Laurie S. Starkey EPub**

**7SI85UQROK3: Introduction to Strategies for Organic Synthesis By Laurie S. Starkey**