



Organic Chemistry: A Mechanistic Approach

By Tadashi Okuyama, Howard Maskill

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Organic Chemistry: A Mechanistic Approach provides students with a concise review of the essential concepts underpinning the subject. It combines a focus on core topics and themes with a mechanistic approach to the explanation of the reactions it describes, making it ideal for those looking for a solid understanding of the central themes of organic chemistry.

Opening with a review of chemical bonding and molecular shape and structure, the book then introduces the principal groups of organic compound before exploring the range of reactions they undergo. It retains an emphasis throughout on how and why organic compounds behave in the way they do, with the closing chapter on characterization methods describing how the structure and composition of organic compounds can be studied in practice.

A range of learning features—including full-color art, sidebars, in-text questions, and end-of-chapter problems—helps students to digest and fully understand the concepts being presented.

With an understanding of organic chemistry being central to the study and practice of a range of disciplines, *Organic Chemistry* is the ideal resource for those studying a one- or two-semester organic chemistry course as part of a broader program of study in the physical and life sciences.

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- Examples of organic synthesis reactions that are related to topics covered in the book
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For students:

- Answers to in-chapter exercises
- 3D-rotatable models of numerous compounds featured in the book
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Editorial Review

Review

The structure and aim of the text is excellent. [It] begins with the fundamentals of molecular structure and introduces the concept of molecular orbitals early... it clearly maintains a direct link to understanding reaction mechanisms from their fundamental origins. Chemistry World, July 2014 I will definitely recommend this book to other people. The book not only contains the correct way of doing things but also highlights the incorrect ways or any common mistakes to avoid, which is also absent in most other textbooks. This is much like a tutor tutoring us instead of just reading a book with facts. Shuang Liu, student, Imperial College London

About the Author

Tadashi Okuyama is Professor Emeritus at the University of Hyogo, Japan, where his research has explored organic reaction mechanisms, acid-base catalysis, and heteroatom chemistry. His teaching has included organic chemistry and advanced courses in physical organic chemistry. He has published a number of textbooks in Japanese, and has also translated a number of English language texts for the Japanese market.

Howard Maskill is a Guest Member of Staff in the School of Chemistry at Newcastle University, UK, having retired as Senior Lecturer in 2004. His research explores the mechanism of reactions of organic compounds in solution.

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