

Organic Stereochemistry

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Basic Stereochemistry of Organic Molecules
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Organic Chemistry, Volume 2: Stereochemistry And The Chemistry Natural Products, 5/E
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Introduction to Stereochemistry
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during recent years stereochemistry has undergone a phenomenal growth both in theory and practice with a concomitant increase of interest among the organic chemists biological chemists medicinal chemists and pharmacologists the present text provides an up to date coherent and comprehensive account of the subject starting from the fundamentals and leading up to the latest development as far as practicable emphasis has been placed on symmetry based approach to molecular chirality stereochemical terminologies modern stereochemistry is replete with them topicity and prostereoisomerism conformational analysis dynamic stereochemistry chiroptical properties and assignment of absolute configuration to chiral molecules dynamic stereochemistry has been discussed with reference to conformation reactivity correlation stereoselective syntheses and pericyclic reactions a large cross section of organic reactions

with stereochemical implication has been incorporated attempts have been made to familiarise the readers with modern instrumental techniques nuclear magnetic resonance in particular used for stereochemical investigation each chapter is provided with a summary which highlights the main points of the text selective references mostly of textbooks monographs review articles and significant original papers have been given extending sometimes to early 1991 the book is expected to fulfil the long felt need for a comprehensive text on modern organic stereochemistry which is conspicuously absent since the publication of professor eliels book in 1962 the text may be adopted at any stage of the university teaching and at the same time be useful to the practising organic chemists

this book is an account for students of how the three dimensional shapes of molecules influence their chemical and physical properties it begins with the structures of molecules and then describes how such structures can be changed

this title explains the fundamental concepts and principles of stereochemistry offers treatment of conformational analysis and summarises properties of stereoisomers and their separation

stereochemistry of organic compounds the first fully referenced comprehensive book on this subject in more than thirty years stereochemistry of organic compounds contains up to date coverage and insightful exposition of all important new concepts developments and tools in the rapidly advancing field of stereochemistry including asymmetric and diastereoselective synthesis conformational analysis properties of enantiomers and racemates separation and analysis of enantiomers and diastereoisomers developments in spectroscopy including nmr chromatography and molecular mechanics as applied to stereochemistry prostereoisomerism conceptual foundations of stereochemistry including terminology and symmetry concepts chiroptical properties written by the leading authorities in the field the text includes more than 4 000 references 1 000 illustrations and a glossary of stereochemical terms

stereochemistry basic concepts and applications is a three chapter text that introduces the basic principles and concepts of stereochemistry as well as its application to organic chemistry application chapter 1 describes first the stereochemistry of the ground state specifically the configuration and conformation of organic compounds as well as the most important methods for its investigation this chapter also deals with the kinetics of conformational changes and provides an overview of the so called applied stereochemistry chapter 2 focuses on the analysis of the internal motions of the molecules and of the corresponding activation energies this chapter also examines the principles of intramolecular symmetry chapter 3 considers the stereochemical aspect of several enzymic processes and the stereoisomerism of monotonic polymers and inorganic complexes this book will be of great value to organic chemists and organic chemistry graduate students

this book discusses essential stereochemical concepts associated with organic molecules natural or synthetic as reflected in the course of their many reactions

their mechanisms their asymmetric synthesis biosynthesis and biological activities this treatise provides useful insights and understanding of the chiral achiral designations nomenclatures the stereochemical features and related properties of the natural and synthetic products without having an adequate knowledge of stereochemical concepts it will not be possible to understand and appreciate the stereochemistry of natural or synthetic products thus essential static and dynamic aspects of stereochemistry with sufficient illustrative examples along with discussions are presented the structure of the monograph allows for easy selection of separate topics for reading and teaching this book will also provide an idea of basic stereochemical concepts as applied to organic molecules in general as well as to organic ligands in coordination complexes and will therefore be valuable resources to teachers and students of advanced undergraduates and post graduates researchers and professionals

adopting a novel approach to the topic by combining theoretical knowledge and practical results this book presents the most popular and useful computational and experimental methods applied for studying the stereochemistry of chemical reactions and compounds the text is clearly divided into three sections on fundamentals spectroscopic and computational techniques and applications in organic synthesis the first part provides a brief introduction to the field of chirality and stereochemistry while the second part covers the different methodologies such as optical rotation electronic circular dichroism vibrational circular dichroism and raman spectroscopy the third section then goes on to describe selective examples in organic synthesis classified by reaction type i e enantioselective chemoselective and stereoselective reactions a final chapter on total synthesis of natural products rounds off the book a valuable reference for researchers in academia and industry working in the field of organic synthesis computational chemistry spectroscopy or medicinal chemistry

takes the reader step by step from the structures of simple molecules such as methane to the basic shapes of biologically important macromolecules such as proteins and nucleic acids deals with the concept of chirality which is often overlooked by many texts chirality is approached by firstly explaining the stereochemistry of compounds with one stereogenic centre then dealing with compounds having two or more stereogenic centres before focusing on compounds possessing axes of chirality the importance of stereochemistry in a wide variety of transformations for example addition reactions eliminations and cycloadditions is discussed the final chapters describe the application of stereocontrol in asymmetric synthesis indicating the use of chiral auxiliaries and chiral catalysts in modern chemistry

molecular shape form and symmetry play a central role in organic chemistry and this text presents a brief introduction to the conceptual basis of stereochemistry its focus lies in the fundamentals of structural stereochemistry rather than the dynamic aspects that are more relevant to reaction mechanisms the three part treatment deals with structure and symmetry stereoisomerism and the separation and configuration of stereoisomers the first section reviews molecular architecture relating empirical bonding geometries to the hybridization of the central carbon atom students receive a nonrigorous

treatment of symmetry elements and point groups with particular focus on the presence or absence of reflection symmetry the second section classifies stereoisomers according to symmetry properties and to the nature of their barriers it also discusses the dependence of optical activity on structure and concludes with an examination of topological isomerism the third and final section explores the conceptual basis of asymmetric syntheses and kinetic resolutions each of the major sections features a series of exercises that reinforce and extend the preceding material and answers are provided preface to the dover edition answers to exercises bibliography index

stereochemistry has always occupied a central position and is pivotal to the practice of organic chemistry a solid understanding of this subject is indeed critical to subsequent success in a science career stereochemistry is therefore a core constituent both at the undergraduate and postgraduate chemistry courses this seventh edition is extensively revised and enlarged by adding new material to take account of recent developments and extensive amendments have been made to improve clarity the key features of this new addition are a brand new design incorporation of basic principles in boxes directly links the students to the main text and a large number of exercises with their solutions have been now added in each chapter these exercises are set at appropriate places so that the students can test their command of a particular topic new problems have been added at the end of each chapter chemical illustrations have been modified and developed for clarity and information generally the figures contain text as well to decrease the need to refer back and forth to the text and for better understanding

this text for undergraduate students presents an introduction to stereochemistry the study of the three dimensional structure of molecules with a focus on organic chemistry in eight chapters morris u of glasgow discusses topics such as the hybridization conformation and configuration of simple molecules chiral molecules molecules with two or more stereogenic centers stereoisomerism in cyclic structures and substitution reactions at saturated carbon coverage extends to the use of nmr spectroscopy in stereochemistry c book news inc

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