

# Organic Stereochemistry

Healing Plants of Nigeria Photochemistry Carbohydrate Chemistry Sustainable Catalysis Asymmetric Functionalization of C-H Bonds Stereochemistry of Organic Compounds Organic Stereochemistry Principles of Organic Stereochemistry Stereochemistry of Organic Compounds Basic Stereochemistry of Organic Molecules Basic Organic Stereochemistry Organic Stereochemistry Concepts and Terminology in Organic Stereochemistry Basic Organic Stereochemistry Stereochemistry of Organic Compounds Stereochemistry Basic Concepts in Organic Stereochemistry Organic Stereochemistry Organic Stereochemistry Guide to Organic Stereochemistry Anselm Adodo Angelo Albini Amélia Pilar Rauter Michael North Shu-Li You D. Nasipuri Michael J. T. Robinson Bernard Testa V. K. Ahluwalia Subrata Sen Gupta Ernest L. Eliel Henri Kagan Moses K. Kaloustian Eliel Ernest L. Eliel M. Nógrádi Sunil Kumar Talapatra Hua-Jie Zhu Geoffrey Hallas Sheila R. Buxton

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healing plants of nigeria ethnomedicine and therapeutic applications offers comprehensive information on the use of herbal medicines in west africa combining an evidence based ethnobotanical perspective with a pharmacological and pharmaceutical approach to phytomedicine the book bridges the gap between the study of herbal plants pharmacological properties and active compounds for the development of clinical drugs and community oriented approaches emphasising local use it demonstrates how the framework of african

traditional medicine can be preserved in a contemporary clinical context the book outlines the history and beliefs surrounding the traditional use of herbs by the local population alongside their application in contemporary phytotherapy in nigeria and west africa it features a critical assessment of the scientific rationale behind the use of these plants in ethnomedicine and offers a composite catalogue of phytotherapeutic and wellness agents detailing the safety profile efficacy and scientific integrity of plants used to treat diseases and optimise health features an ethnobotanical survey containing over 200 full colour photographs of nigerian and west african plants a unique combination of ethnobotany and pharmacognosy bridging the divide between pharmaceutical and community oriented approaches to herbal medicine research contextual discussion of the therapeutic potential of nigerian herbal medicine offers a template which can be used to separate the superstitious aspects of ethnomedicine from culturally inherited deposits of knowledge a handbook for herbal and natural medicine practitioners the book is aimed at african thinkers scientists healthcare providers and students of pharmacology and ethnomedicine

providing critical reviews of recent advances in photochemistry including computational and organic aspects the latest volume in the series reflects the current interests in this area it includes a series of highlights on photorelease processes via two photon excitation and norrish type ii reactions the design of light activated tissue bonding photoresponsive molecular devices targeting nucleic acids ecl based biosensing techniques photochemical bond activation at metal centres photoredox catalysis via aromatic hydrocarbons photoinduced multicomponent reactions and asymmetric catalysis via triplet state this is essential reading for anyone wanting to keep up to date with the literature on photochemistry and its applications

with the increase in volume velocity and variety of information researchers can find it difficult to keep up to date with the literature in the field as the synthesis of novel carbohydrates and carbohydrate mimetics continues to be a major challenge for organic chemists not least because of the increasingly interdisciplinary nature of carbohydrate science carbohydrate chemistry volume 41 will prove invaluable covering both chemical and biological science this series collates modern carbohydrate research from theory to application and will be of great benefit to any researcher who wishes to learn about the latest developments in the carbohydrate field

catalysis is a fundamentally sustainable process which can be used to produce a wide range of chemicals and their intermediates focussing on those catalytic processes which offer the most sustainability this two part book explores recent developments in this field as well as examining future challenges focussing on catalysis without metals or other endangered elements each chapter covers a different type of organocatalyst beginning with chapters on acid and base catalysis the book then concentrates on asymmetric catalysis several chapters

cover pyrrolidine based and cinchona alkaloid based catalysts whilst other chapters examine further organo catalysts which are constructed only from sustainable elements together with sustainable catalysis with non endangered metals these books examine the progress in sustainable catalysis in all areas of chemistry and are an important reference for researchers working in catalysis and green chemistry

asymmetric  $c\ h$  direct functionalization reactions are one of the most active and fascinating areas of research in organic chemistry due to their significance in the construction of molecular complexity without pre activation and the step economy and atom economy features in potential synthetic application distinguishing the reactivity among numerous  $c\ h$  bonds in one single molecule represents one of the most challenging issues in organic synthesis and requires precise reaction design as such this field is now receiving increasing attention from researchers this book provides the first comprehensive review of this field summarizing the origin mechanism scope and applications of the asymmetric  $c\ h$  bond functionalization reaction it covers organocatalytic reactions and transition metal catalyzed reactions as well as asymmetric  $c\ h$  functionalization reactions not described in other books written by a leading expert in this field the book is ideal for postgraduates and researchers working in organic synthesis catalysis and organometallic chemistry

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 dicroism 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

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