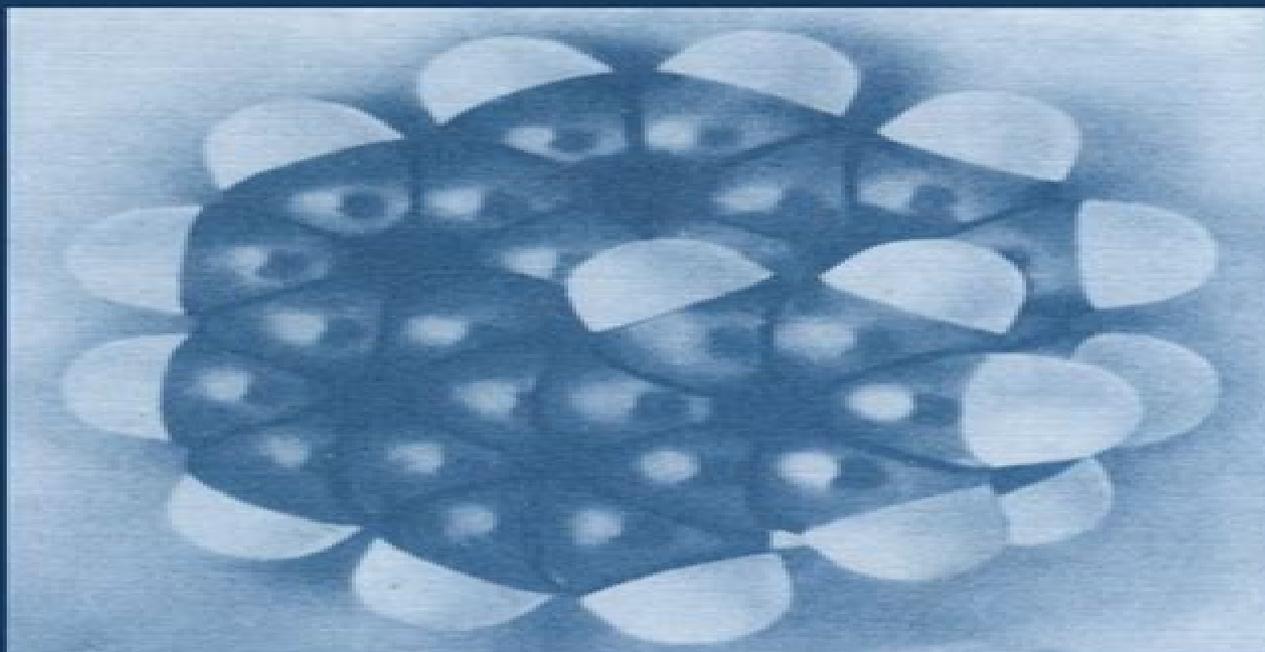


STEREOCHEMISTRY

Basic Concepts & Applications

M. Nógrádi



Pergamon Press

Stereochemistry Basic Concepts And Applications

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,2018 *Stereochemistry, Basic Concepts and Applications* M. Nógrádi,1981 **Basic Concepts in Organic Stereochemistry** Sunil Kumar Talapatra,Bani Talapatra,2023-01-01 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

Chemical Graph Theory D Bonchev,2018-05-11 This volume presents the fundamentals of graph theory and then goes on to discuss specific chemical applications Chapter 1 provides a historical setting for the current upsurge of interest in chemical graph theory Chapter 2 gives a full background of the basic ideas and mathematical formalism of graph theory and includes such chemically relevant notions as connectedness graph matrix representations metric properties symmetry and operations on graphs This is followed by a discussion on chemical nomenclature and the trends in its rationalization by using graph theory which has important implications for the storage and retrieval of chemical information This volume also contains a detailed discussion of the relevance of graph theoretical polynomials it describes methodologies for the enumeration of isomers incorporating the classical Polya method as well as more recent approaches Modern Conformational Analysis Helena Dodziuk,1996-12-17 Most books on organic conformational deal with stereochemistry while

neglecting the spatial structure of organic molecules especially the unusual ones This ambitious monograph presents a global view of organic structure and conformational analysis in a very readable style The author s fascination with the beauty and variety of shapes of organic molecules comes through in her description of the importance of molecular organization in organic chemical and biological systems the quantum foundations of molecular spatial structure molecular symmetry chirality and physical methods for studying molecular geometry She provides ample bases for the new trends in organic conformational chemistry including the application of Computer Assisted Molecular Design CAMD to organic synthesis

Chirotechnology Roger A. Sheldon,1993-05-27 This reference provides an introduction to the phenomenon of chirality and its importance in conjunction with biological activity and offers an easy to read examination of practical industrially relevant methods for the synthesis of optically active compounds Furnishing hands on guidelines for the development of economically viable synthetic compounds Chirotechnology explains optical isomerism and stereochemistry gives a general overview of various methods of synthesis supplies detailed explications of specific techniques including fermentation crystallization the chirality pool enzymatic methods and catalytic asymmetric synthesis illustrates and compares approaches with examples taken directly from industry such as the synthesis of pharmaceuticals agrochemicals flavours and fragrances and clarifies the importance of determining which approach to use for the synthesis of particular molecules With over 1100 literature citations tables and figures Chirotechnology is a reference for chemical engineers industrial organic and medicinal chemists and bioprocess technologists as well as a text for upper level undergraduate graduate and continuing education students in these disciplines **Acta chimica** ,1982 Nr 64 ladkowska J Polyn mes quasi univalents et univalents 1960

Chemistry of Waste Minimization J.H. Clark,1995-08-31 Political pressure has translated into legislation requiring industry to reduce waste There is an unprecedented opportunity for chemists to develop and apply new methods that result in waste reduction and this book describes examples of new chemical methods used to reduce waste at source and to treat toxic waste **Stereochemistry of Coordination Compounds** Alexander von Zelewsky,1996-06-03 This well illustrated and well referenced book provides a systematic introduction to the modern aspects of the topographical stereochemistry of coordination compounds which are made up of metal ions surrounded by other non metal atoms ions and molecules

Stereoselective Synthesis of Drugs and Natural Products Vasyly Andrushko,Natalia Andrushko,2013-08-16 Brings together the best tested and proven stereoselective synthetic methods Both the chemical and pharmaceutical industries are increasingly dependent on stereoselective synthetic methods and strategies for the generation of new chiral drugs and natural products that offer specific 3 D structures With the publication of Stereoselective Synthesis of Drugs and Natural Products researchers can turn to this comprehensive two volume work to guide them through all the core methods for the synthesis of chiral drugs and natural products Stereoselective Synthesis of Drugs and Natural Products features contributions from an international team of synthetic chemists and pharmaceutical and natural product researchers These

authors have reviewed the tremendous body of literature in the field in order to compile a set of reliable tested and proven methods alongside step by step guidance This practical resource not only explores synthetic methodology but also reaction mechanisms and applications in medicinal chemistry and drug discovery The publication begins with an introductory chapter covering general principles and methodologies nomenclature and strategies of stereoselective synthesis Next it is divided into three parts Part One General Methods and Strategies Part Two Stereoselective Synthesis by Bond Formation including C C bond formation C H bond formation C O bond formation C N bond formation Other C heteroatom formation and other bond formation Part Three Methods of Analysis and Chiral Separation References in every chapter serve as a gateway to the literature in the field With this publication as their guide chemists involved in the stereoselective synthesis of drugs and natural products now have a single expertly edited source for all the methods they need National Union Catalog, 1982,1983 The foundations of stereo chemistry, memoirs by Pasteur, Van't Hoff, Lebel and Wislicenus, tr. and ed. by G.M. Richardson Foundations,1901 The Foundations of Stereo Chemistry George Mann Richardson,1901 *National Union Catalog* ,1982 Includes entries for maps and atlases *The Vocabulary and Concepts of Organic Chemistry* Milton Orchin,2005-06-03 This one of a kind reference comprises eighteen topical chapters covering key subject areas in organic chemistry and related fields from atomic orbital theory to polymer chemistry nuclear magnetic resonance spectroscopy to the chemical utilization of fossil fuels Related terms and concepts such as catalyst and zeolite appear in the same chapter and in close proximity to one another thus placing them in context and making it easier for readers to grasp fine distinctions Jacket Macromolecules Hans-Georg Elias,2005-10-28 Macromolecules provides a broad survey of the entire subject integrated representations of chemistry physics and technology precise descriptions and definitions of basic phenomena and balanced treatments of facts and theory The book series thus intends to bridge the gap between introductory textbooks and the highly specialized texts and monographs that cover only part of polymer science and technology Volume I is concerned with the fundamentals of chemical structure and principles of synthesis of macromolecules constitution configuration conformation polymerization equilibria polymerization mechanisms ionic coordination free radical step reactions including solid state and biochemical polymerizations polymer reactions and strategies for defined polymer architectures Volume II discusses individual polymers and their industrial syntheses Volume III the fundamentals of physical structures and properties and Volume IV the processing and application of polymers as plastics fibers elastomers thickeners etc The world of macromolecules in a nutshell **Revue Roumaine de Chimie** ,2001 **Polish Journal of Chemistry** ,1995

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