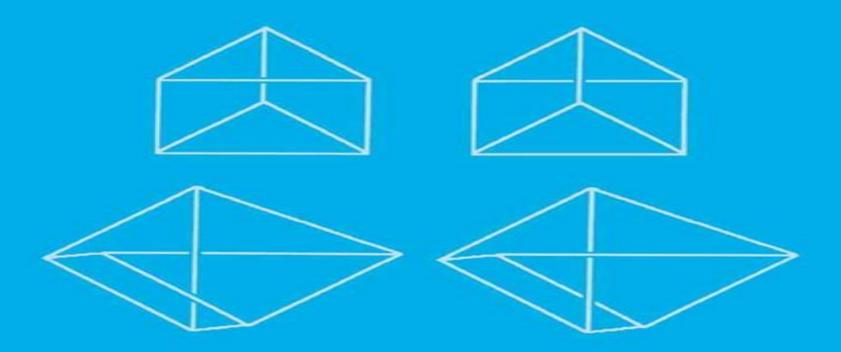
New Developments in Molecular Chirality

Paul G. Mezey (Ed.)



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New Developments In Molecular Chirality

C. Zucchi, L. Caglioti, Gyula Palyi

New Developments In Molecular Chirality:

New Developments in Molecular Chirality Paul G. Mezey, 2012-12-06 Molecular chirality is one of the fundamental aspects of chemistry Chirality properties of molecules have implications in a wide variety of subjects ranging from the basic quantum mechanical properties of simple of a few atoms to molecular optical activity asymmetric synthesis systems and the folding pattern of proteins Chirality in both the geometrical and the topological sense has also been the subject of investigations in various branches of mathematics In particular new developments in a branch of topology called knot theory as well as in various branches of discrete mathematics have led to a novel perspective on the topological aspects of molecular chirality Some of the mathematical advances have already found applications to the interpretation of new concepts in theoretical chemistry and mathematical chemistry as well as to novel synthetic approaches leading to new molecules of exceptional structural properties Some of the new developments in molecular chirality have been truly fundamental to the theoretical understanding and to the actual practice of many aspects of chemistry. The progress in this field has been very rapid even accelerating in recent years and a review appears more than justified This book offers a selection of subjects covering some of the latest developments Our primary aim is to clarify some of the basic concepts that are the most prone to misinterpretation and to provide brief introductions to some of those subjects that are expected to have further important contributions to our understanding of molecular properties and chemical reactivity New Developments in Molecular Chirality Paul G. Mezey, 1991-01-31 Molecular chirality is one of the fundamental aspects of chemistry Chirality properties of molecules have implications in a wide variety of subjects ranging from the basic quantum mechanical properties of simple of a few atoms to molecular optical activity asymmetric synthesis systems and the folding pattern of proteins Chirality in both the geometrical and the topological sense has also been the subject of investigations in various branches of mathematics In particular new developments in a branch of topology called knot theory as well as in various branches of discrete mathematics have led to a novel perspective on the topological aspects of molecular chirality Some of the mathematical advances have already found applications to the interpretation of new concepts in theoretical chemistry and mathematical chemistry as well as to novel synthetic approaches leading to new molecules of exceptional structural properties Some of the new developments in molecular chirality have been truly fundamental to the theoretical understanding and to the actual practice of many aspects of chemistry The progress in this field has been very rapid even accelerating in recent years and a review appears more than justified This book offers a selection of subjects covering some of the latest developments Our primary aim is to clarify some of the basic concepts that are the most prone to misinterpretation and to provide brief introductions to some of those subjects that are expected to have further important contributions to our understanding of molecular properties and chemical reactivity Advances in Asymmetric Autocatalysis and Related Topics Gyula Palyi, Robert Kurdi, Claudia Zucchi, 2017-05-18 Advances in Asymmetric Autocatalysis and Related Topics provides various

viewpoints on the important developments in asymmetric autocatalysis that have occurred in the past few years also including brand new information in the field Asymmetric autocatalysis is a chemical reaction which leads from achiral starting materials to chiral products and in which the product accelerates its own formation reaction conventional catalysis and promotes the prevalence of its own chiral configuration asymmetric induction. The combination of these two effects in the same reaction was unprecedented before 1995 when it was first described by Kenso SOAI at the Tokyo University of Science Since then several new combinations of this effect have been found most intriguingly the possibility of absolute asymmetric synthesis which is the spontaneous formation of the excess of one of the enantiomers of the product a dream of organic chemists for more than a century The book contains expert contributed chapters that describe the most exciting recent developments in the field of the Soai reaction and in related topics ranging from mechanistic studies and theoretical research to very practical problems in chiral syntheses and products Features contributions from global experts including several chapters from Kenso Soai and expert colleagues Focuses on recent developments in the field of asymmetric autocatalysis and newly reported findings Explores the Soai reaction new developments and the light it sheds on homochirality in certain Advances in BioChirality C. Zucchi, L. Caglioti, Gyula Palyi, 1999-09-08 Chirality is a fundamental persistent biomolecules but often overlooked feature of all living organisms on the molecular level as well as on the macroscopic scale The high degree of preference for only one of two possible mirror image forms in Nature often called biological homochirality is a puzzling and not yet fully understood phenomenon This book covers biological homochirality from an interdisciplinary approach contributions range from synthetic chemists theoretical topologists and physicists from palaeontologists and biologists to space scientists and representatives of the pharmaceutical and materials industries Topics covered include theory of biochirality origins of biochirality autocatalysis with amplification of chirality macroscopic present biochirality fossil records of chiral organisms paleochirality extraterrestrial origin of chirality exceptions to the rule of biological homochirality D amino acids chemical transfer of chirality PV effects and polarised radiation chemistry **Biological Chirality** Gyula Palyi, 2019-11-06 Biological Chirality describes this occurrence its history and early research around the topic The work covers analytical methods for observing the phenomenon providing current techniques and practice and discussing the asymmetric morphology of certain living organisms such as the position of the heart and liver in humans and the exceptions to biological homochirality seen in D Amino Acids In addition it explores the requirement of enantioselectivity prepared pharmaceuticals to address enantioselectivities biomolecules a major challenge in today s organic chemistry Finally the work considers the possible origin of biological homochirality as well as the outlook for future research in this area Describes the history of biological chirality research its possible origins and future exploration areas Discusses asymmetric exceptions in morphology and D Amino Acids Explores the critical implications of enantioselective biomolecules for preparative organic chemistry with a goal of developing effective pharmaceuticals Chirality in Supramolecular Assemblies F. Richard

Keene, 2017-01-03 Supramolecular chemistry deals with the organisation of molecules into defined assemblies using non covalent interactions including weaker and reversible interactions such as hydrogen bonds and metal ligand interactions The aspect of stereochemistry within such chemical architectures and in particular chirality is of special interest as it impacts on considerations of molecular recognition the development of functional materials the vexed question of homochirality nanoscale effects of interactions at interfaces biocatalysis and enzymatic catalysis and applications in organic synthesis Chirality in Supramolecular Assemblies addresses many of these aspects presenting a broad overview of this important and rapidly developing interdisciplinary field Topics covered include Origins of molecular and topological chirality Homochirogenesis Chirality in crystallinity Host guest behavior Chiral influences in functional materials Chirality in network solids and coordination solids Aspects of chirality at interfaces Chirality in organic assemblies Chirality related to biocatalysis and enzymes in organic synthesis This book is a valuable reference for researchers in the molecular sciences materials science and biological science working with chiral supramolecular systems It provides summaries and special insights by acknowledged international experts in the various fields Chemical Topology D Bonchev, D.H Rouvray, 1999-04-23 Topology is becoming increasingly important in chemistry because of its rapidly growing number of applications Here its many uses are reviewed and the authors anticipate what future developments might bring This work shows how significant new insights can be gained by representing molecular species as topological structures known as topographs The text explores carbon structures establishing how the stability of fullerene species can be accounted for and also predicting which fullerenes will be most stable It is pointed out that molecular topology rather than molecular geometry characterizes molecular shape and various tools for shape characterization are described Several of the fascinating ideas that arise from regarding topology as a unifying principle in chemical bonding theory are discussed and in particular the novel concept of the molecular topoid is shown to have numerous uses The topological description of polymers is examined and the reader is gently guided through the realms of branched and tangled polymers Overall this work outlines the fact that topology is not only a theoretical discipline but also one that has practical applications and high relevance to the whole domain of chemistry

Chemical Topology Danail Bonchev, Dennis H Rouvray, 2000-07-06 Topology has been extensively applied in the study of chemically linked and knotted structures and also in the study of many biologically significant molecules such as proteins and DNA These are the themes that are addressed in this volume of the Mathematical Chemistry series The topological chirality of knotted and linked molecular species and the invariants that may characterize them are explored in detail Chemical Evolution: Origin Of Life Julian Chela-Flores, PhD, Cyril Ponnamperuma, PhD, 1992-12-31 This book addresses some important open questions in this interdisciplinary field of research In spite of its broad scope ranging from the earliest evidence of life on earth to the search for extraterrestrial intelligence the main focus is on chemical evolution Once the macromolecules of life were formed the evolution of the earliest life forms enhanced the importance of chirality This led to the highly

asymmetric environment of the macromolecules of the living cell the hallmark of life itself. The subject of chirality in particular is discussed in depth the status of the weak force as the only true chiral influence is presented A substantial number of papers review both the theoretical as well as the experimental basis of the origin of biochirality A second broad area discussed in detail is the RNA world Some successes of this hypothesis are highlighted the hierarchy of previous evolutionary stages leading to the origin of life such as the pyrophosphate world are considered. The question is raised whether useful hints may still be inferred from molecular fossils existing in contemporary cells Contents The Origin Evolution and Distribution of Life in the Universe C Ponnamperuma Chemical Origin and Early Evolution of Biological Energy Conversion H Baltscheffsky Phosphate in Models for Chemical Evolution G Arrhenius B Gedulin and Mojzsis Evolution in an RNA World P Schuster Small Pathogenic RNAs of Plants Living Fossils of the RNA World T O Diener The Weak Force and the Origin of Life A J MacDermott The Origin of Chirality the Role of Phase Transitions and Their Induction in Amino Acids A Salam Spontaneous Regulating Mechanisms That May Have Led to the Origin of Life I Chela Flores Chirality and the Origin of Life R Navarro Gonzalez R K Khanna and C Ponnamperuma Search for Phase Transitions Changing Molecular Chirality A Figureau E Duval and A Boukenter Theoretical and Experimental Studies on the Possibility of Chirality Dependent Time Direction in Molecules A S Garay Extraterrestrial Intelligences J Heidmann Discussion Sessions Biochemical Markers in Precambian Sediments Indian Subcontinent S S Rane A V Patankar M S Chadha B Udayraj and S M Nagvi Practicabilities and Limits of Stereospecific Autocatalysis An Experimental Approach T Buhse W Thiemann D Lavabre and J C Micheau Ionizing Radiation and Chemical Processing of Waters on Early Earth I G Draganic and S I Vujosevic Chemical Effects of Ionizing Radiation and Sonic Energy in the Context of Chemical Evolution A Negron Mendoza and G Albarran Differences in Radiolysis Behavior of D L Amino Acid in Primary Stage and Thermodynamic Equilibrium State W Q Wang J L Wu and J Jiang Experimental Searches for the Origin of Biomolecular Asymmetry L Keszthelyi True and False Chirality L D Barron Chiral Interaction and Biomolecular Evolution G Gilat Chiral Forces and Molecular Dissymmetry R Mohan Viroids and Viruses at the Origin of Organized Life L J Boya and P Boya The Role of Neoteny and Sociogenesis in the Evolution of Cell Structure V J A Chiral Analysis P.L. Polavarapu, 2018-05-30 Chiral Analysis Advances in Spectroscopy Chromatography and Novak Emerging Methods Second Edition covers an important area of analytical chemistry of relevance to a wide variety of scientific professionals including chemistry graduate students analytical chemists organic chemists professionals in the pharmaceutical industry and others with an interest in chirality and chiral analysis This thoroughly revised second edition covers several new important areas of chiral analysis that have emerged since the first edition Three of the new methods provide higher sensitivity than can be realized with the current methods and are expected to become mainstream applications cavity based methods offer vastly higher sensitivity than conventional polarimetric methods microwave chiral detection provides unsurpassed sensitivity for identifying diastereomers and the rotating electric field method offers a

competing new approach for the separation of enantiomers Another topic chirality in extraterrestrial life has not been discussed in any other book and is important for understanding the origin of life Offers the only book to cover both spectroscopic and separation methods in a single volume Provides an up to date and detailed review of the various techniques available including new techniques that have emerged since the first edition Includes contributions from a range of leading experts in the field now edited by award winning chirality researcher Prasad Polavarapu Structural Properties Of Condensed Matter - Proceedings Of The 5th International School On Theoretical Physics Tadeusz Lulek, Barbara Lulek, Andrzej Wal, 1999-10-15 This volume continues the series of proceedings of summer schools on theoretical physics which aim at an adequate description of the structure of condensed matter in terms of sophisticated advanced mathematical tools This time the main emphasis is put on the question of whether and when the energy bands in solids are continuous Profs L Michel J Zak and others consider the origin existence and continuity of band structure Also some previously discussed problems magnetic symmetry flux quantization statistics quasicrystals the Bethe ansatz are pursued further and appropriate mathematical tools rooted in actions of groups on sets are developed Applications Thaddeus M Cowan, David Finkelstein, Louis H Kauffman, Eckehard W Mielke, H Keith Moffatt, Mario G Rasetti, L Rozansky, D W Walba, 1995-03-06 This volume is a collection of research papers devoted to the study of relationships between knot theory and the foundations of mathematics physics chemistry biology and psychology Included are reprints of the work of Lord Kelvin Sir William Thomson on the 19th century theory of vortex atoms reprints of modern papers on knotted flux in physics and in fluid dynamics and knotted wormholes in general relativity It also includes papers on Witten's approach to knots via quantum field theory and applications of this approach to quantum gravity and the Ising model in three dimensions Other papers discuss the topology of RNA folding in relation to invariants of graphs and Vassiliev invariants the entanglement structures of polymers the synthesis of molecular Mobius strips and knotted molecules The book begins with an article on the applications of knot theory to the foundations of mathematics and ends with an article on topology and visual perception This volume will be of immense interest to all workers interested in new possibilities in the uses of knots and knot theory Chemoinformatics Jürgen Bajorath, 2008-02-04 In the literature several terms are used synonymously to name the topic of this book chem chemi or chemo informatics A widely recognized de nition of this discipline is the one by Frank Brown from 1998 1 who defined chemoinformatics as the combination of all the information resources that a scientist needs to optimize the properties of a ligand to become a drug In Brown's definition two aspects play a fundamentally important role de sion support by computational means and drug discovery which distinguishes it from the term chemical informatics that was introduced at least ten years earlier and described as the application of information technology to ch istry not with a specific focus on drug discovery In addition there is of course chemometrics which is generally understood as the application of statistical methods to chemical data and the derivation of relevant statistical models and descriptors 2 The

pharmaceutical focus of many developments and efforts in this area and the current popularity of gene to drug or si lar paradigms is further reflected by the recent introduction of such terms as discovery informatics 3 which takes into account that gaining kno edge from chemical data alone is not sufficient to be ultimately successful in drug discovery Such insights are well in accord with other views that the boundaries between bio and chemoinformatics are fluid and that these d ciplines should be closely combined or merged to significantly impact b technology or pharmaceutical research 4 on Electron Physics D. Murray Campbell, Hans Kleinpoppen, 2012-12-06 In the spring of 1970 Peter Farago organised a three day conference on Polarised Electron Beams at Carberry Tower near Edinburgh Although the development of the gallium arsenide source which was to revolutionise the world of experimental polarised electron physics was still some years in the future the meeting provided an important forum for the exchange of ideas among theoreticians and experimentalists engaged in both high and low energy electron collision studies As soon as the decision had been taken to hold the 5th European Conference on Atomic and Molecular Physics in Edinburgh in 1995 it occurred to the editors of the present volume that it would be highly appropriate to mark the twenty fifth anniversary of the Carberry Tower Conference by organising an ECAMP satellite meeting in honour of Peter Farago The opportunity to pay tribute to Peter's many important contributions in the broad field of electron physics attracted colleagues from allover the world to the symposium which was held in the rooms of the Royal Society of Edinburgh on 31st March and 1st April 1995 Peter himself now Professor Emeritus at the University of Edinburgh was present throughout the meeting We were particularly happy to welcome back to Edinburgh many participants in the original Carberry Tower conference these included Professor P G Burke Professor J Kessler Professor E Reichert and Professor H C Siegmann whose review papers had been highlights of the 1970 meeting **Molecular Similarity and** Reactivity: From Quantum Chemical to Phenomenological Approaches Ramón Carbó, 1995-07-31 Similarities in chemical reactivity depend on molecular properties and are ultimately dependent on the similarities of electronic structures Fundamentally quantum chemical similarities are manifested in similarities of molecular behaviour This book covers both the quantum chemical origins and the methods of phenomenological descriptions of molecular similarity The emphasis on reactivity is a unique feature The exposition of computational methods and the prediction of reactivities as well as the description of actual computer programs constitute important aspects of the book Specific applications in drug design and techniques for the interpretation of the roles of functional groups in reactivity are of interest in molecular engineering The selection of topics provides a detailed and balanced introduction to the field of similarity based assessment of chemical reactivity For researchers and graduate students in both fundamental chemistry and applied fields such as biochemistry pharmacology and drug design What is What in the Nanoworld Victor E. Borisenko, Stefano Ossicini, 2013-02-21 The third partly revised and enlarged edition of this introductory reference summarizes the terms and definitions most important phenomena and regulations occurring in the physics chemistry technology and application of nanostructures A

representative collection of fundamental terms and definitions from quantum physics and chemistry special mathematics organic and inorganic chemistry solid state physics material science and technology accompanies recommended secondary sources for an extended study of any given subject Each of the more than 2 200 entries from a few sentences to a page in length interprets the term or definition in question and briefly presents the main features of the phenomena behind it Additional information in the form of notes First described in Recognition More details in supplements the entries and gives a historical perspective of the subject with reference to further sources Ideal for answering questions related to unknown terms and definitions among undergraduate and PhD students studying the physics of low dimensional structures nanoelectronics and nanotechnology The Nature of the Mechanical Bond Carson J. Bruns, J. Fraser Stoddart, 2016-11-07 The story is told by THE inventor pioneer master in the field and is accompanied by amazing illustrations it will become an absolute reference and a best seller in chemistry Alberto Credi the great opus on the mechanical bond A most impressive undertaking Jean Marie Lehn Congratulations to co author J Fraser Stoddart a 2016 Nobel Laureate in Chemistry In molecules the mechanical bond is not shared between atoms it is a bond that arises when molecular entities become entangled in space Just as supermolecules are held together by supramolecular interactions mechanomolecules such as catenanes and rotaxanes are maintained by mechanical bonds. This emergent bond endows mechanomolecules with a whole suite of novel properties relating to both form and function They hold unlimited promise for countless applications ranging from their presence in molecular devices and electronics to their involvement in remarkably advanced functional materials The Nature of the Mechanical Bond is a comprehensive review of much of the contemporary literature on the mechanical bond accessible to newcomers and veterans alike Topics covered include Supramolecular covalent and statistical approaches to the formation of entanglements that underpin mechanical bonds in molecules and macromolecules Kinetically and thermodynamically controlled strategies for synthesizing mechanomolecules Chemical topology molecular architectures polymers crystals and materials with mechanical bonds The stereochemistry of the mechanical bond mechanostereochemistry including the novel types of dynamic and static isomerism and chirality that emerge in mechanomolecules Artificial molecular switches and machines based on the large amplitude translational and rotational motions expressed by suitably designed catenanes and rotaxanes This contemporary and highly interdisciplinary field is summarized in a visually appealing image driven format with more than 800 illustrations covering both fundamental and applied research The Nature of the Mechanical Bond is a must read for everyone from students to experienced researchers The Knot Book Colin Conrad Adams, 2004 Knots are with an interest in chemistry's latest and most non canonical bond familiar objects Yet the mathematical theory of knots quickly leads to deep results in topology and geometry This work offers an introduction to this theory starting with our understanding of knots It presents the applications of knot theory to modern Fuzzy Logic in Chemistry Dennis H. Rouvray, 1997-04-18 Fuzzy Logic has gained chemistry biology and physics

increasing acceptance as a way to deal with complexity and uncertainty in many areas of science and engineering This book is the first to address its practical applications to chemical systems Ten distinguished authors discuss the role of fuzzy logic in the characterization of a variety of chemical concepts including chirality quantum systems molecular engineering and design and hierarchical classification methods Fuzzy Logic in Chemistry will appeal to both students and professionals who are seeking to learn more about theory and applications in an area of growing importance to the physical sciences The first book on the applications of fuzzy logic in chemistry Covers a topic relevant to many disciplines including molecular design Discusses applications of fuzzy logic to the physical sciences a rapidly growing area Features chapters from highly distinguished authors in the physical sciences On Chirality and the Universal Asymmetry Georges H. Wagnière, 2007-07-23 Until half a century ago it was assumed that the forces of nature were symmetric and that they did not distinguish between right and left between image and mirror image The discovery of the violation of parity in 1956 was more than a sensation for some it was a shock It implied that the universe displays handedness or chirality and that it is fundamentally asymmetric Remarkably a most striking asymmetry is encountered in the realm of biology Living organisms contain proteins built almost exclusively from L amino acids and nucleic acids derived from D sugars only Yet a mirror image biochemistry based on D amino acids and L sugars is from a purely chemical standpoint entirely conceivable Where then does this extraordinary natural selectivity come from Is it directly or indirectly connected to the universal violation of parity This book is meant as a brief review of the various manifestations of handedness or chirality in the universe It does not attempt to present a solution to basic questions which perhaps will never be unambiguously and conclusively answered Rather it is an excursion through nature to observe and recognize how the chirality manifests itself at different structural levels The excursion starts in the chemistry and physics laboratory Then a journey into outer space and back in time is undertaken After a return to our planet Earth the focus is on the development of living organisms The text should be accessible to anyone having the equivalent of a first year university instruction in physics and chemistry It is also hoped that a layperson with a more modest scientific formation may gain a general impression of the basic asymmetry in nature and of the fundamental significance of chirality Mathematical expressions wherever they occur may then be overlooked Some more difficult sections may be skipped A Glossary preceding the Subject Index should be helpful

New Developments In Molecular Chirality Book Review: Unveiling the Magic of Language

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