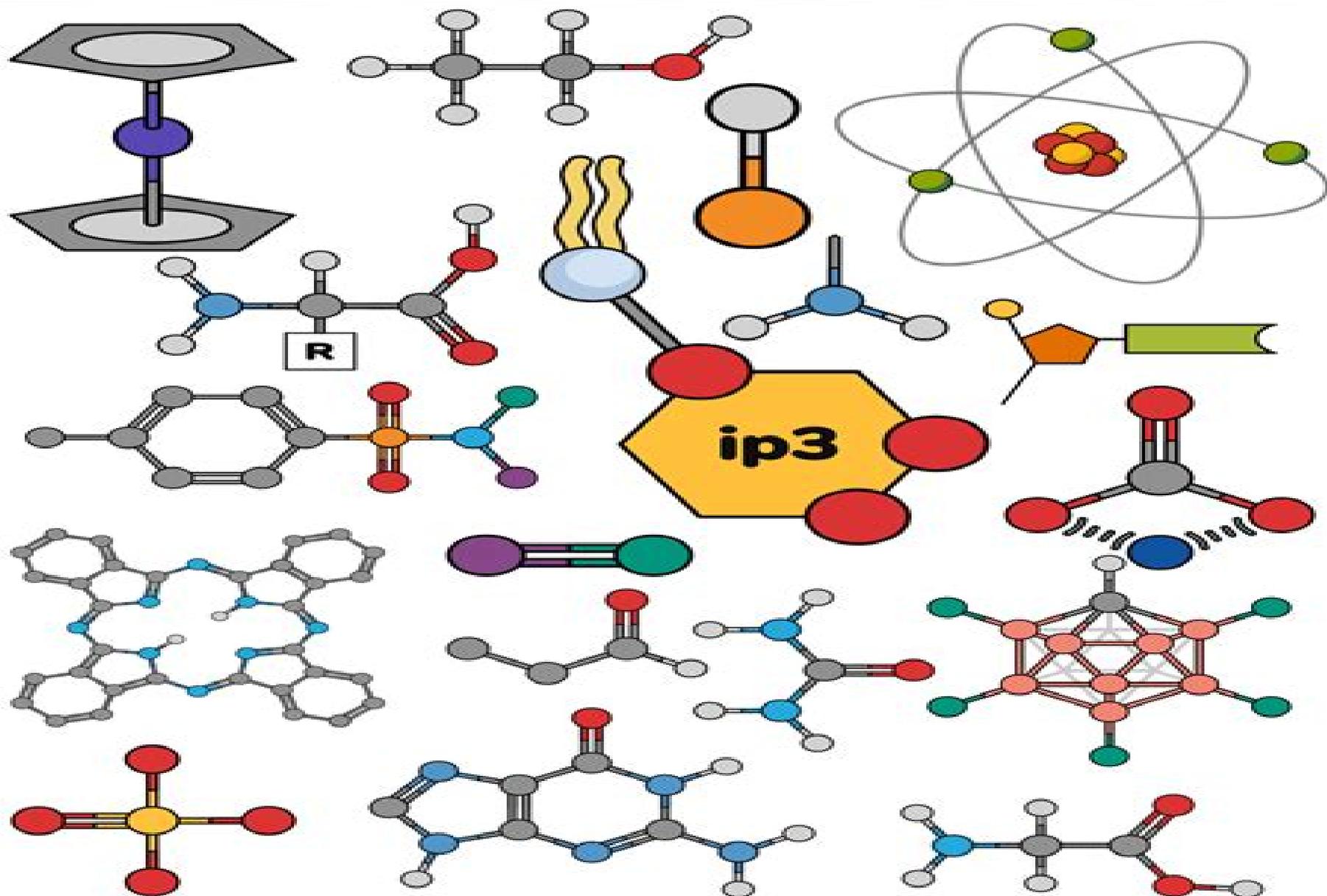


Chemical structures



Structure And Chemistry

Linus Pauling



Structure And Chemistry:

The Nature of the Chemical Bond and the Structure of Molecules and Crystals Linus Pauling, 1960 Thorough discussion of the various types of bonds their relative natures and the structure of molecules and crystals **Structure and Chemistry of Crystalline Solids** Bodie Douglas, Shi-Ming Ho, 2006-06-09 Accompanying CD ROM is a resource using CrystalMaker that allows visualization and manipulation of structures and identification of relationships among similar structures Structural Chemistry Mihai V. Putz, Fanica Cimpoesu, Marilena Ferbinteanu, 2018-03-24 This book explains key concepts in theoretical chemistry and explores practical applications in structural chemistry For experimentalists it highlights concepts that explain the underlying mechanisms of observed phenomena and at the same time provides theoreticians with explanations of the principles and techniques that are important in property design Themes covered include conceptual and applied wave functions and density functional theory DFT methods electronegativity and hard and soft Lewis acid and base HSAB concepts hybridization and aromaticity molecular magnetism spin transition and thermochromism Offering insights into designing new properties in advanced functional materials it is a valuable resource for undergraduates of physical chemistry cluster chemistry and structure reactivity courses as well as graduates and researchers in the fields of physical chemistry chemical modeling and functional materials Chemical Structure and Bonding Roger L. DeKock, Harry B. Gray, 1989 Designed for use in inorganic physical and quantum chemistry courses this textbook includes numerous questions and problems at the end of each chapter and an Appendix with answers to most of the problems **Inorganic Structural Chemistry** Ulrich Müller, 2007-09-27 The essential introduction to the understanding of the structure of inorganic solids and materials This revised and updated 2nd Edition looks at new developments and research results within Structural Inorganic Chemistry in a number of ways special attention is paid to crystalline solids elucidation and description of the spatial order of atoms within a chemical compound Structural principles of inorganic molecules and solids are described through traditional concepts modern bond theoretical theories as well as taking symmetry as a leading principle *The Nature of the Chemical Bond* Linus Pauling, 1964 *The Nature of the Chemical Bond and the Structure of Molecules and Crystals* Linus Carl Pauling, 1993 *Introduction to Structural Chemistry* Stepan S. Batsanov, Andrei S. Batsanov, 2012-11-29 A concise description of models and quantitative parameters in structural chemistry and their interrelations with 280 tables and 3000 references giving the most up to date experimental data on energy characteristics of atoms molecules and crystals ionisation potentials electron affinities bond energies heats of phase transitions band and lattice energies optical properties refractive index polarisability spectroscopic characteristics and geometrical parameters bond distances and angles coordination numbers of substances in gaseous liquid and solid states in glasses and melts for various thermodynamic conditions Systems of metallic covalent ionic and van der Waals radii effective atomic charges and other empirical and semi empirical models are critically revised Special attention is given to new and growing areas structural studies of solids under high pressures and

van der Waals molecules in gases The book is addressed to researchers academics postgraduates and advanced course students in crystallography materials science physical chemistry of solids Fundamentals of Structural Chemistry Gong-du Zhou,1993 This book focuses on two main topics in fundamental structural chemistry the properties of chemical bonding derived from the behavior of the microscopic particles and their wave functions and the three dimensional molecular and crystal structures The principle that structure determines properties and properties reflect structures is clearly demonstrated This book emphasizes practical examples linking structure with properties and applications which provide invaluable insight for students thus stimulating their mind to deal with problems in the topics concerned *Structural Chemistry of Layer-Type Phases* F. Hulliger,2011-11-03 This monograph is intended to give the reader an appreciation of the wealth of phases elements and inorganic compounds which crystallize in layer type or two dimensional structures Originally this work was planned as a short review article but the large number of phases made it grow out to the size of a book As is evident from the arrangement of the chapters our point of view was gradually transmuting from geometric to chemical Moreover the decision about the compounds that should be discussed was taken only during the course of the work as is partly evident from the sequence of the references For chemical or geometrical reason we have included also certain layered chain and molecular structures as well as some layered structures whose layers are linked by hydrogen bonds thus are in fact three dimensional Instead of writing only a review with pseudo scientific interpretations that later turn out to be wrong anyway we thought it more profitable to include the crystallographic data which are scattered in various original articles and hand books but never in one single volume We have transcribed many of the data in order to make them correspond with the standard settings of the International Tables for X Ray Crystallography The figures are consistent with the data given in the tables We apologize for errors and hope that their number is at a reasonably low level in spite of the time pressure

Essays in Structural Chemistry A. J. Downs,2012-12-06 This book deals with selected aspects of structural chemistry concentrating particularly on molecular and Raman spectroscopy The authors of the various chapters were chosen from friends colleagues and past students of Len Woodward It is our hope that the book will prove useful both to honours students and to research workers We would like to thank all our contributors for their willing cooperation in this endeavour We are also grateful to all those who have given permission for the reproduction of copyright material from other publications specific acknowledgments are made in each chapter We are particularly indebted to the Principal and Fellows of Jesus College Oxford and the artist H A Freeth R A for permission to reproduce the portrait of Len Woodward which forms the frontispiece Our thanks are also due to Mrs J Stevenson who undertook a great deal of the secretarial work associated with the organization of this volume and to Mr P Espe who photographed the portrait The royalties from the sale of this book will in the first instance go to Jesus College Oxford and will be used for the establishment of a prize to be associated with Len Woodward s name Structure Correlation Hans-Beat Bürgi,Jack D. Dunitz,2008-07-11 Dieses Buch geht ber die

konventionelle Betrachtungsweise der Ergebnisse von Strukturuntersuchungen weit hinaus das mittlerweile verfügbare umfangreiche Datenmaterial über Strukturen vergleichbarer chemischer Verbindungen kann genutzt werden um wesentlich differenziertere Informationen als rein geometrische Daten zu erhalten Die richtige Fragestellung ist bei solchen Untersuchungen ebenso entscheidend wie der effektive Einsatz von Datenbanken In Beiträgen von F H Allen T L Blundell I D Brown H B Brgi J D Dunitz L Leiserowitz u a werden Erkenntnisse der Strukturkorrelationsmethode für so unterschiedliche Problemkreise wie Bindungsstärken im Festkörper Vorhersage von Strukturen Reaktionsmechanismen von organischen Molekülen Sterische Einflüsse auf biochemische Vorgänge kompetent und nachvollziehbar dargestellt Dabei wird auf theoretische wie praxisorientierte Aspekte gleichermaßen eingegangen Dieses Buch eröffnet einen einzigartigen Einblick in eine wichtige Entwicklung in der Strukturchemie und ist daher in einem geradezu klassischen Sinne richtungsweisend *Mathematical Chemistry and Chemoinformatics* Adalbert Kerber, Reinhard Laue, Markus Meringer, Christoph Rücker, Emma Schymanski, 2013-12-12 More than 20 years of experience in molecular structure generation from conceptualization through to applications Innovative interdisciplinary text demonstrating example queries with software packages such as MOLGEN online Detailed explanations on establishing QSPRs and QSARs as well as structure elucidation using mass spectrometry and structure generation Aims and Scope This work provides an introduction to mathematical modeling of molecules and the resulting applications structure generation structure elucidation QSAR QSPR etc Most chemists have experimented with some software that represents molecules in an electronic form and such models and applications are of increasing interest in diverse and growing fields such as drug discovery environmental science and metabolomics Furthermore structure generation remains the only way to systematically create molecules that are not yet present in a database This book starts with the mathematical theory behind representing molecules explaining chemical concepts in mathematical terms and providing exercises that can be completed online The later chapters cover applications of the theory with detailed explanations on QSPR and QSAR investigations and finally structure elucidation combining mass spectrometry and structure generation This book is aimed in particular at the users of structure generation methods and corresponding techniques but also for those interested in teaching and learning mathematical chemistry and for software designers in chemoinformatics

Mechanism and Structure in Organic Chemistry Edwin S. Gould, 1962 Crystal Chemistry: From Basics To Tools For Materials Creation Gerard Ferey, 2016-12-02 This is a book for crystal chemistry lovers written by one of the pioneers of solid state chemistry MRS Bulletin Devoted to a diverse group of solid state scientists the book has two objectives both relating to structural chemistry i a progressive analytic familiarization with the main parameters that govern the organization of crystallized matter and related crystal structures ii a study of what are the various ways to read a structure far beyond its representation in scientific articles Hence the reader will from numerous examples illustrated in color analyze what are the main characteristics of these structures from their geometric characteristics their coordination polyhedra their connections

with the resulting dimensionalities of these solids including also the defects they exhibit before looking at possibilities to classify structures within which recurrence laws can emerge Chemists are required to understand the potentials of a new structure for becoming future materials scientists The first part of the book is by no means a database for known structures but facilitates a progressive understanding of the organization of the solid state With these tools in hand the reader is invited in the later part of the book to analyze new structures and to also use new concepts for viewing structures in a more synthetic way for the future Such new vision is already leading to the creation of completely new solids with outstanding characteristics that find applications in societal problems concerning energy energy savings environment and health The content is not exclusively academic but relates to the creation of innovative materials through a more physical approach that might condition the future of materials

Structural Methods in Molecular Inorganic Chemistry D. W. H. Rankin, Norbert Mitzel, Carole Morrison, 2013-01-02 Determining the structure of molecules is a fundamental skill that all chemists must learn Structural Methods in Molecular Inorganic Chemistry is designed to help readers interpret experimental data understand the material published in modern journals of inorganic chemistry and make decisions about what techniques will be the most useful in solving particular structural problems Following a general introduction to the tools and concepts in structural chemistry the following topics are covered in detail computational chemistry nuclear magnetic resonance spectroscopy electron paramagnetic resonance spectroscopy Mossbauer spectroscopy rotational spectra and rotational structure vibrational spectroscopy electronic characterization techniques diffraction methods mass spectrometry The final chapter presents a series of case histories illustrating how chemists have applied a broad range of structural techniques to interpret and understand chemical systems Throughout the textbook a strong connection is made between theoretical topics and the real world of practicing chemists Each chapter concludes with problems and discussion questions and a supporting website contains additional advanced material Structural Methods in Molecular Inorganic Chemistry is an extensive update and sequel to the successful textbook Structural Methods in Inorganic Chemistry by Ebsworth Rankin and Cradock It is essential reading for all advanced students of chemistry and a handy reference source for the professional chemist

The Chemistry of Leather Manufacture John Arthur Wilson, 1928

Structural Chemistry and Molecular Biology Alexander Rich, Norman Ralph Davidson, 1968

Organic Chemistry, Fourth Edition K. Peter C. Vollhardt, Neil E. Schore, 2002-08-06 New edition of the acclaimed organic chemistry text that brings exceptional clarity and coherence to the course by focusing on the relationship between structure and function

Transactions Faraday Society, 1929

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