

## 17: Molecular Geometry - VSEPR

### Key Structure Terms

- Valence Shell:** Electrons in the outermost shell that are involved in bonding.
- Lewis Structure:** A 2D representation of a molecule and its bonds.
- Lone Pair:** Pair of electrons not being shared in a bond.
- Bonding Pair:** Pair of electrons used to make a bond. Both atoms sharing the electrons can "count" them in their valence shell.
- Single bond:** One pair of shared electrons.
- Double bond:** Two pairs of shared electrons. Shorter and stronger than a single bond.
- Triple bond:** Three pairs of shared electrons. Shorter and stronger than a double bond.
- Valence Shell Electron Pair Repulsion Theory (VSEPR):** Bonds and lone pairs are electrons, all electrons are negative, negative things repel other negative things, therefore all bonds and lone pairs arrange themselves in 3D as far away from each other as possible.
- Electron Geometry:** 3D structure of a molecule determined by counting the electron regions around a central atom (bonds and lone pairs).
- Electron Region:** Each bond (single, double or triple) and lone pair count as "1" electron region.
- Molecular Geometry:** 3D structure determined by the atoms bonded to the central atom.
- Ligand:** Atoms bonded to the central atom.

### VSEPR Theory and Geometry

**Electron geometry** is determined by looking at the number of electron regions around the central atom.

**Molecular geometry** is determined by looking at the number of atoms bonded to the central atom (ligand) and the number of lone pairs around the central atom.

**Electronic Geometry Mnemonic:** Linear(2) – Trigonal Planar(3) – Tetrahedral(4) – Trigonal Bipyramidal(5) – Octahedral(6) = "Long DIP To TRIBE Overseas."

**Examples:**
















Electron geometry: Tetrahedron  
Molecular geometry: Tetrahedron



Electron geometry: Tetrahedron  
Molecular geometry: Trigonal pyramidal

### Molecular Geometries

A = central atom; X = ligands; E = lone pairs

Electron Regions	Molecular Formula	Name	Shape
2	$AX_2$ ( $\text{BeCl}_2$ , $\text{CO}_2$ )	Linear	
3	$AX_3$ ( $\text{BF}_3$ , $\text{CO}_3^{2-}$ , $\text{NO}_3^-$ , $\text{SO}_3$ )	Trigonal Planar	
	$AX_2E$ ( $\text{NO}_2^+$ , $\text{SO}_2$ , $\text{O}_3$ )	Bent	
4	$AX_4$ ( $\text{CH}_4$ , $\text{NH}_4^+$ , $\text{PO}_4^{3-}$ , $\text{SO}_4^{2-}$ , $\text{ClO}_4^-$ )	Tetrahedron	
	$AX_3E$ ( $\text{NH}_3$ , $\text{H}_3\text{O}^+$ , $\text{PCl}_3$ , $\text{SO}_3^{2-}$ )	Trigonal pyramidal	
	$AX_2E_2$ ( $\text{H}_2\text{O}$ , $\text{ClO}_2$ , $\text{OF}_2$ , $\text{SCl}_2$ )	Bent	
5	$AX_5$ ( $\text{PCl}_5$ )	Trigonal bipyramidal	
	$AX_4E$ ( $\text{SF}_4$ , $\text{SCl}_5$ )	See-saw	
	$AX_3E_2$ ( $\text{ClF}_3$ , $\text{ICl}_3$ )	T-shaped	
	$AX_2E_3$ ( $\text{XeF}_2$ , $\text{I}_3^-$ )	Linear	
6	$AX_6$ ( $\text{SF}_6$ , $\text{PCl}_6^-$ )	Octahedron	
	$AX_5E$ ( $\text{BrF}_5$ , $\text{IF}_5$ )	Square pyramidal	
	$AX_4E_2$ ( $\text{XeF}_4$ )	Square planar	

**How to Use This Cheat Sheet:** These are the keys related to this topic. Try to read through it carefully twice then write it out on a blank sheet of paper. Review it again before the exams.

# Molecular Structure And Bonding Cheat Sheet

**D. Sangeeta, John R. LaGraff**



## **Molecular Structure And Bonding Cheat Sheet:**

**Molecular Structure** Norman L. Allinger, 2010-12-15 A guide to analyzing the structures and properties of organic molecules Until recently the study of organic molecules has traveled down two disparate intellectual paths the experimental or physical method and the computational or theoretical method Working somewhat independently of each other these disciplines have guided research for decades but they are now being combined efficiently into one unified strategy Molecular Structure delivers the essential fundamentals on both the experimental and computational methods then goes further to show how these approaches can join forces to produce more effective analysis of the structure and properties of organic compounds by Looking at experimental structures electron neutron X ray diffraction and microwave spectroscopy as well as computational structures ab initio semi empirical molecular orbital and molecular mechanics calculations Discussing various electronic effects particularly stereoelectronic effects including hyperconjugation negative hyperconjugation the Bohlmann and anomeric effects and how and why these cause changes in structures and properties of molecules Illustrating complex carbohydrate effects such as the gauche effect the delta two effect and the external anomeric torsional effect Covering hydrogen bonding the CH bond and how energies especially heats of formation can be affected Using molecular mechanics to tie all of these things together in the familiar language of the organic chemist valence bond pictures Authored by a founding father of computational chemistry Molecular Structure broadens the scope of the subject by serving as a pioneering guide for workers in the fields of organic biological and computational chemistry as they explore new possibilities to advance their discoveries This work will also be of interest to many of those in tangential or dependent fields including medicinal and pharmaceutical chemistry and pharmacology

**Selected Scientific and Engineering Tables and Data** United States Testing Company, Inc, 1956

Construction Materials Reference Book David Doran, Bob Cather, 2013-07-24 This book is the definitive reference source for professionals involved in the conception design and specification stages of a construction project The theory and practical aspects of each material is covered with an emphasis being placed on properties and appropriate use enabling broader deeper understanding of each material leading to greater confidence in their application Containing fifty chapters written by subject specialists Construction Materials Reference Book covers the wide range of materials that are encountered in the construction process from traditional materials such as stone through masonry and steel to advanced plastics and composites With increased significance being placed on broader environmental issues issues of whole life cost and sustainability are covered along with health and safety aspects of both use and installation

Exploring Physical Science in the Laboratory John T. Salinas , 2019-02-01 This full color manual is designed to satisfy the content needs of either a one or two semester introduction to physical science course populated by nonmajors It provides students with the opportunity to explore and make sense of the world around them to develop their skills and knowledge and to learn to think like scientists The material is written in an accessible way providing clearly written procedures a wide variety of exercises

from which instructors can choose and real world examples that keep the content engaging Exploring Physical Science in the Laboratory guides students through the mysteries of the observable world and helps them develop a clear understanding of challenging concepts CRC Desk Reference for Nutrition Carolyn D. Berdanier, 2016-04-19 Following in the tradition of its popular predecessors the CRC Desk Reference for Nutrition Third Edition explains hundreds of terms commonly used in medicine food science metabolism physiology and nutrition Thoroughly updated and expanded to reflect major advances over the past decade this reference lists entries alphabetically and cross r **Organic Chemistry I For Dummies** Arthur Winter, 2016-05-13 Organic Chemistry I For Dummies 2nd Edition 9781119293378 was previously published as Organic Chemistry I For Dummies 2nd Edition 9781118828076 While this version features a new Dummies cover and design the content is the same as the prior release and should not be considered a new or updated product The easy way to take the confusion out of organic chemistry Organic chemistry has a long standing reputation as a difficult course Organic Chemistry I For Dummies takes a simple approach to the topic allowing you to grasp concepts at your own pace This fun easy to understand guide explains the basic principles of organic chemistry in simple terms providing insight into the language of organic chemists the major classes of compounds and top trouble spots You ll also get the nuts and bolts of tackling organic chemistry problems from knowing where to start to spotting sneaky tricks that professors like to incorporate Refreshed example equations New explanations and practical examples that reflect today s teaching methods Fully worked out organic chemistry problems Baffled by benzines Confused by carboxylic acids Here s the help you need in plain English

**Inorganic Materials Chemistry Desk Reference** D. Sangeeta, John R. LaGraff, 2004-11-29 The updated second edition of the popular Inorganic Materials Chemistry Desk Reference remains a valuable resource in the preparation of solid state inorganic materials by chemical processing techniques It also expands upon new chemical precursors available to materials scientists the applications of those materials and existing or emerging topi Biomolecular Crystallography Bernhard Rupp, 2009-10-20 Synthesizing over thirty years of advances into a comprehensive textbook Biomolecular Crystallography describes the fundamentals practices and applications of protein crystallography Illustrated in full color by the author the text describes mathematical and physical concepts in accessible and accurate language Biomolecular Crystallography will be a valuable resource for advanced undergraduate and graduate students and practitioners in structural biology crystallography and structural bioinformatics Materiomics: Multiscale Mechanics of Biological Materials and Structures Markus J. Buehler, Roberto Ballarini, 2013-11-18 Multiscale mechanics of hierarchical materials plays a crucial role in understanding and engineering biological and bioinspired materials and systems The mechanical science of hierarchical tissues and cells in biological systems has recently emerged as an exciting area of research and provides enormous opportunities for innovative basic research and technological advancement Such advances could enable us to provide engineered materials and structure with properties that resemble those of biological systems in particular the ability to self

assemble to self repair to adapt and evolve and to provide multiple functions that can be controlled through external cues This book presents material from leading researchers in the field of mechanical sciences of biological materials and structure with the aim to introduce methods and applications to a wider range of engineers

**Crystal Structure Analysis for Chemists and Biologists** Jenny P. Glusker, Mitchell Lewis, Miriam Rossi, 1996-12-17 The fields of structural chemistry and biochemistry have blossomed in the last seventy years since X ray diffraction was discovered in 1912 Dorothy Hodgkin who obtained a Nobel Prize in 1965 for her X ray diffraction work wrote a great advantage of X ray analysis as a method of chemical structure analysis is its power to show some totally unexpected and surprising structure with at the same time complete certainty The results of all X ray diffraction studies are used by chemists and buiochemists but these scientists need to be able to appreciate the significance and extent to which these results may be used A number of books written for practicing crystallographers cover the theory and applications of X ray diffraction but few are of real practical use to non specialists In Crystal Structure Analysis for Biologists and Chemists the general principles of crystal structure are presented in a highly readable way The book of Glusker who is internationally renowned provides good coverage of theory including data and understanding their significance

**Laboratory Manual for Principles of General Chemistry** J. A. Beran, Mark Lassiter, 2022-08-16 Laboratory Manual for Principles of General Chemistry 11th Edition covers two semesters of a general chemistry laboratory program The material focuses on the lab experiences that reinforce the concepts that not all experimental conclusions are the same and depend on identifying an appropriate experimental procedure selecting the proper apparatus employing the proper techniques systematically analyzing and interpreting the data and minimizing inherent variables As a result of good data a scientific and analytical conclusion is made which may or may not be right but is certainly consistent with the data Experiments write textbooks textbooks don t write experiments A student s scientific literacy grows when experiences and observations associated with the scientific method are encountered Further experimentation provides additional cause effect observations leading to an even better understanding of the experiment The 11th edition s experiments are informative and challenging while offering a solid foundation for technique safety and experimental procedure The reporting and analysis of the data and the pre and post lab questions focus on the intuitiveness of the experiment The experiments may accompany any general chemistry textbook and are compiled at the beginning of each curricular unit An Additional Notes column is included in each experiment s Report Sheet to provide a space for recording observations and data during the experiment Continued emphasis on handling data is supported by the Data Analysis section

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Saenger, 2012-12-06 Hydrogen bonds are weak attractions with a binding strength less than one tenth that of a normal covalent bond However hydrogen bonds are of extraordinary importance without them all wooden structures would collapse cement would crumble oceans would vaporize and all living things would disintegrate into random dispersions of inert matter Hydrogen Bonding in Biological Structures is informative and eminently usable It is in a sense a Rosetta stone that unlocks a wealth of information from the language of crystallography and makes it accessible to all scientists From a book review of Kenneth M Harmon Science 1992      **Polymer Science: A Comprehensive Reference** ,2012-12-05 The progress in polymer science is revealed in the chapters of Polymer Science A Comprehensive Reference Ten Volume Set In Volume 1 this is reflected in the improved understanding of the properties of polymers in solution in bulk and in confined situations such as in thin films Volume 2 addresses new characterization techniques such as high resolution optical microscopy scanning probe microscopy and other procedures for surface and interface characterization Volume 3 presents the great progress achieved in precise synthetic polymerization techniques for vinyl monomers to control macromolecular architecture the development of metallocene and post metallocene catalysis for olefin polymerization new ionic polymerization procedures and atom transfer radical polymerization nitroxide mediated polymerization and reversible addition fragmentation chain transfer systems as the most often used controlled living radical polymerization methods Volume 4 is devoted to kinetics mechanisms and applications of ring opening polymerization of heterocyclic monomers and cycloolefins ROMP as well as to various less

common polymerization techniques Polycondensation and non chain polymerizations including dendrimer synthesis and various click procedures are covered in Volume 5 Volume 6 focuses on several aspects of controlled macromolecular architectures and soft nano objects including hybrids and bioconjugates Many of the achievements would have not been possible without new characterization techniques like AFM that allowed direct imaging of single molecules and nano objects with a precision available only recently An entirely new aspect in polymer science is based on the combination of bottom up methods such as polymer synthesis and molecularly programmed self assembly with top down structuring such as lithography and surface templating as presented in Volume 7 It encompasses polymer and nanoparticle assembly in bulk and under confined conditions or influenced by an external field including thin films inorganic organic hybrids or nanofibers Volume 8 expands these concepts focusing on applications in advanced technologies e g in electronic industry and centers on combination with top down approach and functional properties like conductivity Another type of functionality that is of rapidly increasing importance in polymer science is introduced in volume 9 It deals with various aspects of polymers in biology and medicine including the response of living cells and tissue to the contact with biofunctional particles and surfaces The last volume is devoted to the scope and potential provided by environmentally benign and green polymers as well as energy related polymers They discuss new technologies needed for a sustainable economy in our world of limited resources Provides broad and in depth coverage of all aspects of polymer science from synthesis polymerization properties and characterization methods and techniques to nanostructures sustainability and energy and biomedical uses of polymers Provides a definitive source for those entering or researching in this area by integrating the multidisciplinary aspects of the science into one unique up to date reference work Electronic version has complete cross referencing and multi media components Volume editors are world experts in their field including a Nobel Prize winner

**Polymer Modification** John Meister, 2000-07-25 Describes new modification methods and applications for natural synthetic thermoplastic and thermoset polymers that result from economic forces commercial processes and the latest research and development Features chemical and physical technologies such as sulfonation alkylation acid base hydrolysis hydrogenation stress orienting anneal

*Biomedical Engineering e-Mega Reference* Buddy D. Ratner, Jack E. Lemons, John Semmlow, W. Bosseau Murray, Reinaldo Perez, Isaac Bankman, Stanley Dunn, Yoshito Ikada, Prabhas V. Moghe, Alkis Constantinides, Joseph Dyro, Richard Kyle, Bernhard Preim, Sverre Grimnes, Frederick J. Schoen, Daniel A. Vallero, Orjan G. Martinsen, Allan S. Hoffman, 2009-03-23 A one stop Desk Reference for Biomedical Engineers involved in the ever expanding and very fast moving area this is a book that will not gather dust on the shelf It brings together the essential professional reference content from leading international contributors in the biomedical engineering field Material covers a broad range of topics including Biomechanics and Biomaterials Tissue Engineering and Biosignal Processing A fully searchable Mega Reference Ebook providing all the essential material needed by Biomedical and Clinical Engineers on a day to day basis Fundamentals key techniques

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