

ChemThink: Molecular Shapes

Objective:




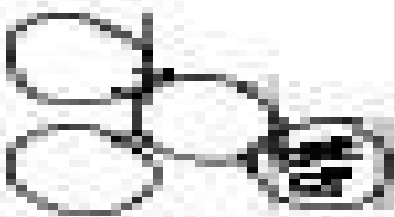

Lesson 8

Electron

Pair

Repulsion

Understanding that as the number of molecules that have lone pairs on an atom, the electron pairs repel each other and this repulsion will affect the shape of the molecule.

Number of lone pairs on atom	Diagram (see examples)	Bond Angles	Shape	E.g. Lewis Dot representation
0		180°	Linear	$H-H$
1		120°	Trigonal Planar	
2		180°	Bent	

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B. Deb

A decorative graphic consisting of a red circle with a white center, partially obscured by a white horizontal bar that extends from the left edge of the slide.

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The VSEPR Model of Molecular Geometry Ronald J Gillespie, Istvan Hargittai, 2013-03-21 Valence Shell Electron Pair Repulsion VSEPR theory is a simple technique for predicting the geometry of atomic centers in small molecules and molecular ions This authoritative reference was written by Istvan Hartigai and the developer of VSEPR theory Ronald J Gillespie In addition to its value as a text for courses in molecular geometry and chemistry it constitutes a classic reference for professionals Starting with coverage of the broader aspects of VSEPR this volume narrows its focus to a succinct survey of the methods of structural determination Additional topics include the applications of the VSEPR model and its theoretical basis Helpful data on molecular geometries bond lengths and bond angles appear in tables and other graphics Shape in Chemistry Paul G. Mezey, 1993 Molecular Geometry Alison Rodger, Mark Rodger, 2014-05-16 Molecular Geometry discusses topics relevant to the arrangement of atoms The book is comprised of seven chapters that tackle several areas of molecular geometry Chapter 1 reviews the definition and determination of molecular geometry while Chapter 2 discusses the unified view of stereochemistry and stereochemical changes Chapter 3 covers the geometry of molecules of second row atoms and Chapter 4 deals with the main group elements beyond the second row The book also talks about the complexes of transition metals and f block elements and then covers the organometallic compounds and transition metal clusters The last chapter tackles the consequences of small local variations in geometry The text will be of great use to chemists who primarily deal with the properties of molecules and atoms **Models of Molecular Shapes/VSEPR Theory and Orbital**

Hybridization James M. Postma, Julian Roberts, J. Leland Hollenberg, 2000-01-15 Molecular Geometry Ronald James Gillespie, 1972 **The Electronic Interpretation of Molecular Shapes** B. Deb, 1969 *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 **The VSEPR Model of Molecular Geometry** Ronald James Gillespie,István Hargittai,1991-01 *The Shape and Structure of Molecules* Charles Alfred Coulson,1982 Bio-molecular Shapes and Algebraic Structures Christian Reidys,Peter F. Stadler,Santa Fe Institute (Santa Fe, N.M.),1995

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