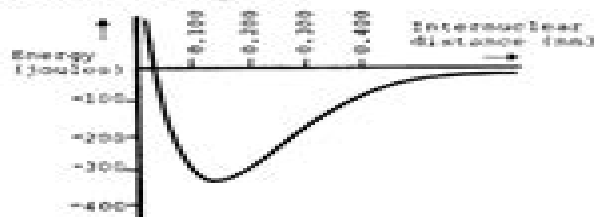


9 • Bonding & Molecular Structure

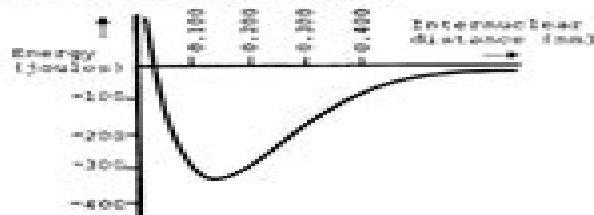
LECTURE NOTES 1

1. A bond forms when two orbitals _____ allowing electrons to be close to two nuclei at the same time. When two H atoms bond, they overlap electrons in their _____ orbitals.
2. As two H atoms approach each other, the potential energy _____ because of the electron-proton attractions. The potential energy _____ because of electron-electron and proton-proton repulsions.
3. Consider this diagram:



Two separate atoms have an energy of ____ J. The equilibrium bond distance is ____ nm. The bond energy is ____ Joules which is the amount of energy you need to add to break the bond (i.e. separate the two atoms).

4. Consider this diagram again:



If two He atoms approach, their bond distance is 0.075 nm and bond energy is 100 J. Sketch the energy curve for He₂. The two atoms do not get close enough for the electrons to be close to both nuclei at the same time... no bond forms.

We generalize: two _____ orbitals CAN make a bond.
Two _____ orbitals cannot make a bond.

5. You should be able *quickly* to state the number of valence electrons any atom has based on its position on the periodic table. Write it.

P	Ca	F	As
C	Na	K	H
Si	O	B	Mg

6. Draw the Lewis electron-dot symbol for each of the following elements.

P	Ca	F	As
C	Na	K	H
Si	O	B	Mg

7. Some elements have different "ground state" Lewis symbols. Practice drawing them:

Ground State	Bonding State	Ground State	Bonding State
C	C	Ca	Ca
Al	Al	B	B

8. You should be able to recognize the **type of bond** that forms between two atoms based on the atoms involved. Classify each of the following bonds as **Ionic** or **Covalent**.

SO	_____	KI	_____
NaCl	_____	HCl	_____
CaBr	_____	SiO	_____
XeF	_____	MgCl	_____
CO	_____	NI	_____

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Ying Liu



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Research Grants Index National Institutes of Health (U.S.). Division of Research Grants,1966 X-ray Analysis and the Structure of Organic Molecules Jack D. Dunitz,1995 This book is the second corrected reprint of 2X Ray Analysis 2 published in 1979 and consists of two parts Part one is about Crystal Structure Analysis part two deals with Molecular Structure All the information in this volume is of considerable value especially to those engaged in or about to embark upon X ray crystal structure analysis Industrial Arts Index ,1930 Papers Presented at the ... Meeting American Chemical Society. Division of Polymer Chemistry,1996 The Scientist ,1994 **Energy Research Abstracts** ,1978 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes Nuclear Science Abstracts ,1974 Government Reports Announcements & Index ,1976

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