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## GZ180E - PHILLIPS HANCOCK

*Covalent Bonding* *Covalent Bonding*

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242 Chapter 8 • Covalent Bonding Single Covalent Bonds When only one pair of electrons is shared, such as in a hydrogen molecule, it is a single covalent bond. The shared electron pair is often referred to as the bonding pair. For a hydrogen molecule, shown in Figure 8.4, each covalently bonded atom equally attracts the pair of shared electrons.

*Chapter 8: Covalent Bonding*

Chapter 8 Covalent Bonding and Molecular Structure 8-3 There are two types of repulsive forces between the two atoms. First, the nuclei repel because they are both positively charged. Second, the electrons repel because they are both negatively charged. The attractive forces between the two atoms result from the

*Chapter 8: Covalent Bonding and Molecular Structure*

Section 8.4 – Polar Bonds and Molecules. Covalent bonds involve sharing electrons between atoms. When the atoms in the bond pull equally, the bonding electrons are shared equally, and the bond is nonpolar. When the atoms in the bond pull unequally, the bonding electrons are pulled closer to one atom, and the bond is polar.

*Chapter 8 – Covalent Bonding*

Chapter 8 “Covalent Bonding” Pre-AP Chemistry Charles Page High School Stephen L. Cotton Ball-and-stick model Section 8.1 Molecular Compounds OBJECTIVES: – Distinguish between the melting points and boiling points of molecular compounds and ionic compounds.

*Chapter 8 Covalent Bonding.ppt - Chapter 8 Ball-and-stick ...*

The sp<sup>3</sup> orbital overlaps with hydrogen's 1s orbital to form a covalent bond, called σ bond. The angle between each lobe assumes 109.47° since the sp<sup>3</sup> carbon is tetrahedral. sp<sup>2</sup> Hybrid Orbitals : If a carbon atom is in a double-bond environment, such as C<sub>2</sub>H<sub>4</sub> (ethylene), the carbon is hybridized to become sp<sup>2</sup> hybrid orbital.

*Chapter 8. Covalent Compounds: Bonding Theories and ...*

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Chapter 8: Covalent Bonding Matter takes many forms in nature : In this chapter, we are going to learn to distinguish the type of compound that we have already studied, the “ ionic compound ” (which contains oppositely-charged particles: metal cations and non-metal anions), from a different type of compound - a “ molecular compound ”.

*Chapter 8: Covalent Bonding*

Chapter 8 Covalent Bonds 1. Covalent Bonding Chapter 8 2. 

- The atoms held together by sharing electrons are joined by a Covalent Bond .

Sharing is Caring 3. 2. Covalent bonds- Two atoms share one or more pairs of outer-shell electrons. Oxygen Atom Oxygen Atom Oxygen Molecule (O<sub>2</sub>) 4.

*Chapter 8 Covalent Bonds - SlideShare*

### Section 8.2 The Nature of Covalent Bonding • OBJECTIVES:

–Distinguish between a covalent bond and a coordinate covalent bond, and describe how the strength of a covalent bond is related to its bond dissociation energy.

*Chapter 8 "Covalent Bonding" - Henry County School ...*

CHAPTER 8 SOLUTIONS MANUAL Covalent Bonding Covalent Bonding Solutions Manual Chemistry: Matter and Change • Chapter 8 121 Section 8.1 The Covalent Bond pages 240–247 Practice Problems page 244 Draw the Lewis structure for each molecule. 1. PH 3 H HH H— H H P respectively, for single, double, and triple P — — 2. H 2 S H H H — H S S — 3. HCl

#### *Covalent Bonding Covalent Bonding*

When H forms a bond with H O to form the hydronium ion H O , this bond is called a coordinate covalent bond because a. both bonding electrons come from the oxygen atom. b. it forms an especially strong bond. c. the electrons are equally shared. d. the oxygen no longer has eight valence electrons.

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The bond energies in Table 8.2 "Bond Energies of Covalent Bonds" are average values; the exact value of the covalent bond energy will vary slightly among molecules with these bonds but should be close to these values. To be broken, covalent bonds always require energy; that is, covalent bond breaking is always an endothermic process.

*Chapter 8 - Chemical Bonds - CHE 105/110 - Introduction to ...*

Chapter 8: Covalent Bonding 8.1 The Covalent Bond Main Idea: Atoms gain stability when they share electrons and form covalent bonds Why do atoms bond? Non Metal & Metal - Non Metal & Non Metal - Diatomic Elements - Orbital Overlap 1 . Lewis Dot Structures -

*Chapter 8: Covalent Bonding - Norwell Public Schools*

Chapter 8 "Covalent Bonding" Tools. Copy this to my account; E-mail to a friend; Find other activities; Start over; Help; Use these activities to help you study the vocabulary and major concepts presented in this chapter. A B; coordinate covalent bond: a bond in which one atom contributes both bonding electrons to a covalent bond:

*Quia - Chapter 8 "Covalent Bonding"*

A covalent bond in which one atom contributes both bonding electrons Polyatomic ion A tightly bound group of atoms that has a positive or negative charge and behaves as a unit.

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*Chapter 8: Covalent Bonding*

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