Holt Modern Chemistry Review CHAPTER 6: CHEMICAL BONDING

The following pages contain the bulk (but not all) of the information for the chapter 6 test. Focus on this content, but make sure to review class notes, activities, handouts, questions, etc. If you study this document and NOTHING else, you should at least be able to PASS the test.

***** Test items will be recall, examples, and/or application of this content. ******

OUTCOMES

- Collaborate with peer(s) to understand chemistry content (C C)
- Communicate chemistry content to teacher and peer(s) (E C)
- 6.2: Use the Lewis dot notation, illustrate the covalent bond as the sharing of electrons (F & PK)
- 6.3: List important physical properties of ionic compounds; sum of oxidation numbers = zero (F & PK)

6.1: INTRODUCTION TO CHEMICAL BONDING

Vocabulary

- chemical bond the attractive force that holds atoms or ions together
- ionic bonding -- a force that attracts electrons from one atom to another, which transforms a neutral atom into an ion
- covalent bonding -- a bond formed when atoms share one or more pairs of electrons
- nonpolar-covalent bond a covalent bond in which the bonding electrons are equally attracted to both bonded atoms
- polar -- describes a molecule in which the positive and negative charges are separated
- polar-covalent bond a covalent bond in which a pair of electrons shared by two atoms is held more closely by one atom

Chapter Highlights

- Most atoms are chemically bonded to other atoms. The three major types of chemical bonding are ionic, covalent, and metallic.
- In general, atoms of metals bond ionically with atoms of nonmetals, atoms of metals bond metallically with each other, and atoms of nonmetals bond covalently with each other.

6.2: COVALENT BONDING AND MOLECULAR COMPOUNDS

Vocabulary

- molecule a group of atoms that are held together by chemical forces; a molecule is the smallest unit of matter that
 can exist by itself and retain all of a substance's chemical properties
- molecular compound a chemical compound whose simplest units are molecules
- chemical formula a combination of chemical symbols and numbers to represent a substance
- molecular formula a chemical formula that shows the number and kinds of atoms in a molecule, but not the
 arrangement of the atoms
- electron-dot notation an electron configuration notation in which only the valence electrons of an atom of a particular element are shown, indicated by dots placed around the element's symbol
- Lewis structure a structural formula in which electrons are represented by dots; dot pairs or dashes between two atomic symbols represent pairs in covalent bonds.
 See examples at right for LEWIS STRUCTURES of NF₂ and OCl₂
- structural formula -- a formula that indicates the location of the atoms, groups, or ions relative to one another in a molecule and that indicates the number and location of chemical bonds
- single bond a covalent bond in which two atoms share one pair of electrons
- multiple bond a bond in which the atoms share more than one pair of electrons, such as a double bond or a triple bond
- resonance -- the bonding in molecules or ions that cannot be correctly represented by a single Lewis structure

Chapter Highlights

Atoms in molecules are joined by covalent bonds. In a covalent bond, two atoms share one or more pairs of electrons.

Holt Chemistry Concept Review Chapter 6

Padhraic Smyth

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Holt Chemistry Ralph Thomas Myers, 2004 Materials for Engineers Jonathan B. Puthoff, Vilupanur A. Ravi, 2024-08-22 A working understanding of materials principles is essential in every area of engineering However the materials requirements of different engineering disciplines can vary considerably Existing introductory textbooks on engineering materials adopt a universalist approach providing theoretical development and surveying a landscape of topics suitable for introducing materials engineers to their field Materials for Engineers Principles and Applications for Non Majors has been constructed with the requirements of non materials engineering students non majors in mind The theoretical foundations of material structure and behavior are curated and focused and the description of the behavior of materials as they pertain to performance measurement and design are developed in detail The book Places applications and essential measurement methods before detailed theory Features a variety of types end of chapter exercises including forum discussion topics for online course components Emphasizes computer based problem solving and includes numerous examples and exercises for MATLAB Includes optional topic chapters for course customization including structures transportation and electronics Outlines practical details of how and why knowledge of materials is necessary for engineers including the various roles that materials engineers play and the impact of materials on cost lifespan and safety of components and products This textbook is aimed at undergraduate engineering students taking their first materials engineering course It can also be used by professional engineers interested in a ready reference A solutions manual lecture slides and example data sets are available for adopting professors Holt Chemistry Holt Rinehart & Winston, 2003-01-24 Ebook: Chemistry: The Molecular Nature of Matter and Change Silberberg, 2015-01-16 Ebook Chemistry The Molecular Nature of Matter and Change

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University Press in 2013

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