

CHAPTER 8 STUDY GUIDE

Covalent Bonding

Section 8.1 The Covalent Bond

In your textbook, read about the nature of covalent bonds.

Use each of the terms below just once to complete the passage.

covalent bond

molecule

sigma bond

exothermic

pi bond

When sharing of electrons occurs, the attachment between atoms that results is called a(n) **(1)** _____. When such an attachment is formed, bond dissociation energy is released, and the process is **(2)** _____. When two or more atoms bond by means of electron sharing, the resulting particle is called a(n) **(3)** _____. If the electrons shared are centered between the two atoms, the attachment is called a(n) **(4)** _____. If the sharing involves the overlap of parallel orbitals, the attachment is called a(n) **(5)** _____.

In your textbook, read about single and multiple bonds and bond strength.

Circle the letter of the choice that best completes the statement or answers the question.

6. In what form do elements such as hydrogen, nitrogen, and oxygen normally occur?
 - a. as single atoms
 - b. as molecules containing two atoms
 - c. as molecules containing three atoms
 - d. as molecules containing four atoms
7. How many electrons are shared in a double covalent bond?
 - a. none
 - b. one
 - c. two
 - d. four
8. Bond length is the distance between
 - a. two molecules of the same substance.
 - b. the electrons in two attached atoms.
 - c. the nuclei of two attached atoms.
 - d. the orbitals of two attached atoms.
9. Which of the following relationships relating to bond length is generally correct?
 - a. the shorter the bond, the stronger the bond
 - b. the shorter the bond, the weaker the bond
 - c. the shorter the bond, the fewer the electrons in it
 - d. the shorter the bond, the lower the bond dissociation energy

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Thorpe



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The Pearson Guide to Objective Chemistry for the AIEEE Singhal Atul, 2010-09 *The Pearson Guide To The Scra Examination, 2/E* Thorpe, 2008-09 *The Pearson Guide to Inorganic Chemistry for the IIT JEE 2012* , Chemical Bonding Mark J. Winter, 2016 The renowned Oxford Chemistry Primers series which provides focused introductions to a range of important topics in chemistry has been refreshed and updated to suit the needs of today's students, lecturers and postgraduate researchers. The rigorous yet accessible treatment of each subject area is ideal for those wanting a primer in a given topic to prepare them for more advanced study or research. The learning features provided including questions at the end of every chapter and online multiple choice questions encourage active learning and promote understanding. Furthermore, frequent diagrams, margin notes and glossary definitions all help to enhance a student's understanding of these essential areas of chemistry. Chemical bonding gives a clear and succinct explanation of this fundamental topic which underlies the structure and reactivity of all molecules and therefore the subject of chemistry itself. Little prior knowledge or mathematical ability is assumed, making this the perfect text to introduce students to the subject. The Pearson Guide To Organic Chemistry For The Iit Jee Singhal, 2009-09 *Organic and Bio-molecular Chemistry - Volume I* Francesco Nicotra, 2009-04-14 Organic and Bio Molecular Chemistry is the component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems (EOLSS) which is an integrated compendium of twenty-one Encyclopedias. The Theme on Organic and Bio Molecular Chemistry in the Encyclopedia of Chemical Sciences Engineering and Technology Resources deals with the discipline that studies the molecules of life which are made by carbon atoms and includes also all the synthetic compounds the skeletons of which contain carbon atoms. The first chapter describes in general terms for not expert readers what Organic and Bio molecular chemistry is, the nature and behavior of organic compounds in living organisms, the importance of organic compounds in the market and in our every day life. The subsequent chapters are organized in order to provide the reader with information on the structure, reactivity, analysis and different applications of Organic Compounds. These two volumes are aimed at the following five major target audiences: University and College students, Educators, Professional practitioners, Research personnel and Policy analysts, managers and decision makers and NGOs.

A Concise Organic Chemistry Text Book for Honors Semester-3, Course-6 by BVR VENKATA RAO BASA, 2024-12-10 This concise text book of organic chemistry is primarily meant for II BSc Honors students of Indian Universities. It includes topics such as halogen, Hydroxy, carbonyl compounds, carboxylic acids and carbohydrates. Some practicals like organic preparations and organic compound analysis is depicted nicely. Covers multiple choice questions for PG entrance. Video links are provided wherever appropriate. Hope students and faculty will receive this book and utilize well.

Inorganic and Bio-Inorganic Chemistry - Volume II Ivano Bertini, 2009-02-10 Inorganic and Bio Inorganic Chemistry is the component of Encyclopedia of Chemical Sciences Engineering and Technology Resources in the

global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias The Theme on Inorganic and Bio Inorganic Chemistry in the Encyclopedia of Chemical Sciences Engineering and Technology Resources deals with the discipline which studies the chemistry of the elements of the periodic table It covers the following topics From simple to complex compounds Chemistry of metals Inorganic synthesis Radicals reactions with metal complexes in aqueous solutions Magnetic and optical properties Inorganometallic chemistry High temperature materials and solid state chemistry Inorganic biochemistry Inorganic reaction mechanisms Homogeneous and heterogeneous catalysis Cluster and polynuclear compounds Structure and bonding in inorganic chemistry Synthesis and spectroscopy of transition metal complexes Nanosystems Computational inorganic chemistry Energy and inorganic chemistry These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

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The Pearson Guide to the Nda Examination Thorpe, 2007-09

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