

## 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 notebook, record about single and multiple bonds and bond strengths.

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

# Covalent Bonding Study Guide Key

**Julie R. Frentrup**

## **Covalent Bonding Study Guide Key:**

Study Guide with Answers to Selected Problems H. Stephen Stoker,Danny V. White,2003-04 This supplement includes for each chapter a brief overview activities and practice problems to reinforce skills and a practice test The answers section includes answers for all odd numbered end of chapter exercises Know Your 'O' Level Chemistry - A Study Guide ,

**Study Guide, Answer Book to Accompany Organic Chemistry** Alan S. Wingrove,Robert L. Caret,1981

**Chemistry, Student Study Guide** John A. Olmsted,Gregory M. Williams,2002-01-04 This third edition continues to innovate by providing students with an integrated and modern approach to the subject The text emphasizes the modern tools of chemistry while incorporating historical evidence and its unique molecular quantitative emphasis is further reinforced by an integrated media package developed by the authors Also of benefit is the just in time presentation of key content only providing details once they are needed While key topics and analytical techniques have been updated there is now an additional third chapter on chemical equilibrium The authors have also developed an expanded and more integrated problem solving emphasis that now incorporates a 4 step strategy throughout complete with text icons The whole is backed by a range of supplements including a new illustration program a tutorial CD interactive learningware an extensive Web CT component an instructor s resource CD and a solution CD Study Guide for Chemistry, Third Edition [by] Steven S. Zumdahl Paul B. Kelter,1993

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**Study Guide/Selected Solutions Manual** Julie R.

Frentrup, 2002-06 Contains a brief overview of every chapter review of skills self tests and the answers and detailed solutions to all odd numbered end of chapter problems in the text book

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errors that students make in their effort to learn chemistry while the Practical Test section includes matching and multiple choice questions that comprehensively cover almost every concept and numerical problem in the chapter. After briefly dealing with an overview of chemistry this book goes on exploring the concept of matter energy measurement problem solving atom periodic table and chemical bonding. These topics are followed by discussions on writing names and formulas of compounds chemical formulas and the mole chemical reactions calculations based on equations gases and the properties of a liquid. The remaining chapters examine the solutions acids bases salts oxidation reduction reactions electrochemistry chemical kinetics and equilibrium and nuclear organic and biological chemistry. This study guide will be of great value to chemistry teachers and students.

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