

Name \_\_\_\_\_ Date \_\_\_\_\_ Class \_\_\_\_\_

## CHAPTER 9

## STUDY GUIDE FOR CONTENT MASTERY

## Covalent Bonding

### Section 11 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 electrons occurs, the attachment between atoms that results is called a(n) **covalent bond**. When such an attachment is formed, bond dissociation energy is released, and the process is **exothermic**. When two or more atoms bond by means of electron sharing, the resulting particle is called a(n) **molecule**. If the electrons shared are contained between the two atoms, the attachment is called a(n) **sigma bond**. If the sharing involves the overlap of parallel orbitals, the attachment is called a(n)  **$\pi$  bond**.

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

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

- Is water from its elements such as hydrogen, oxygen, and oxygen normally **exothermic**?
  - an single atom
  - an molecules containing three atoms
  - an molecules containing two atoms
  - an molecules containing four atoms
- How many electrons are shared in a double covalent bond?
  - none
  - two
  - four
  - eight
- Bond length is the distance between
  - two molecules of the same substance
  - the electrons in two attached atoms
  - the nuclei of two attached atoms
  - the orbitals of two attached atoms
- Which of the following relationships relating to bond length is generally correct?
  - the shorter the bond, the stronger the bond
  - the shorter the bond, the weaker the bond
  - the shorter the bond, the fewer the electrons in it
  - the shorter the bond, the lower the bond dissociation energy

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Chemistry: Matter and Change • Chapter 9

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## CHAPTER 9 STUDY GUIDE FOR CONTENT MASTERY

### Section 12 Naming Molecules

In your textbook, read about how binary compounds and acids are named from their formulas.

For each statement below, write *true* or *false*.

- false** 1. Binary molecular compounds are generally composed of a metal and a nonmetal.
- false** 2. The second element in the formula of a binary compound is named using the suffix *-ite*.
- false** 3. The prefix *mono-* indicates three atoms.
- true** 4. The prefix *hepta-* indicates six atoms.
- true** 5. In naming the first element in a formula, the prefix *mono-* is not used.
- true** 6. For binary acids, the hydrogen part of the compound is named using the prefix *hydro-*.
- false** 7. An oxyacid contains only two elements.
- false** 8. If the name of the cation of an oxyacid ends in *-ite*, the acid name contains the suffix *-ate*.

In your textbook, read about naming molecular compounds and oxyacids.

For each item in Column A, write the letter of the matching item in Column B.

## Column A

- c.**  $\text{N}_2\text{O}$       **b.**  $\text{Cl}_2$
- f.**  $\text{NO}$       **d.**  $\text{CO}_2$
- g.**  $\text{H}_2\text{SO}_4$       **e.**  $\text{H}_2\text{O}_2$
- h.**  $\text{SO}_2$
- a.**  $\text{HNO}_3$       **i.**  $\text{HNO}_2$
- d.**  $\text{HNO}_3$       **f.**  $\text{HNO}_2$
- e.**  $\text{HNO}_2$       **g.**  $\text{HNO}_3$
- h.**  $\text{HNO}_3$       **i.**  $\text{HNO}_2$

## Column B

- a.** hydrobromic acid
- b.** nitrogen trioxide
- c.** carbon monoxide
- d.** nitrous acid
- e.** nitric acid
- f.** nitrous acid
- g.** carbonic acid
- h.** bromic acid
- i.** carbon dioxide

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# Key Minerals Study Guide For Content Mastery

**Adrienne Dill Linton, Mary Ann  
Matteson**



## **Key Minerals Study Guide For Content Mastery:**

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**Baking and Pastry: Mastering the Art and Craft, 3e Study Guide** The Culinary Institute of America (CIA), 2015-04-13 This is the Student Study Guide to accompany Baking and Pastry Mastering the Art and Craft 3rd Edition Praised by top pastry chefs and bakers as an indispensable guide and the ultimate baking and pastry reference the latest edition of Baking and Pastry from The Culinary Institute of America improves upon the last with more than 300 new recipes photographs and illustrations and completely revised and up to date information on creating spectacular breads and desserts Covering the full range of the baking and pastry arts and widely used by professionals and readers who want to bake like professionals this book offers detailed accessible instructions on the techniques for everything from yeast breads pastry doughs quick breads breakfast pastries and savory items to cookies pies cakes frozen desserts custards souffl s and chocolates In addition this revised edition features new information on sustainability and seasonality along with new material on plated desserts special occasion cakes wedding cakes d cor techniques savory and breakfast pastries and volume production making it the most comprehensive baking and pastry manual on the market Named Best Book Professional Kitchen at the International Association of Culinary Professionals IACP Cookbook Awards Established by its first two editions as a lifelong kitchen reference for professional pastry chefs Includes more than 900 recipes and 645 color photographs and illustrations

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on the job and equipping you to pass the NCLEX exam Assists with assignment and supervision helping you assign tasks to nurse assistants patient care techs and unlicensed assistive personnel and making sure you understand the difference between delegation management supervision and assignment of tasks on the health care team Features Diagnostic Tests and Procedures tables for a quick reference to MRI CT Doppler flow lumbar puncture tests for neurologic disorders and much more Highlights timely information with Health Promotion boxes Cultural Considerations boxes Nutrition Considerations boxes and Complementary and Alternative Therapies boxes Provides bulleted lists of nursing instructions for Patient Teaching Plans stressing the role and responsibility of the LPN LVN to reinforce patient education Provides consistent Nursing Care Plans that reinforce the nursing process and focus on critical thinking and Put on Your Thinking Cap Critical Thinking boxes encourage you to pause and consider the practical implications of what you have just read **Glencoe Science** McGraw-Hill Staff,2001-08 **Advances in Transportation Geotechnics 2** Seiichi Miura,Tatsuya Ishikawa,Nobuyuki Yoshida,Yoshio Hisari,Nagato Abe,2012-08-31 This book including a 969 pages full paper USB device deals with the geotechnics of roads railways and airfields Providing economic and sustainable transportation infrastructures for societies is highly dependent on progress made in this field and the contributions are of interest to professionals and academics involved in geotechnical and pavement engineering of roads railways and airfields **Medical-Surgical Nursing E-Book** Adrienne Dill Linton,Mary Ann Matteson,2019-02-13 Gain the knowledge and skills you need to effectively care for adult patients Medical Surgical Nursing 7th Edition covers both medical surgical and psychiatric mental health conditions and disorders while building on the fundamentals of nursing This essential text focuses on nursing roles settings trends body systems and their disorders and emergency and disaster management Unique to this edition is the gerontologic nursing unit which addresses physiologic and psychosocial changes in the older adult along with related disorders common to the elder patient the primary patient group population you ll encounter in practice It also emphasizes culturally competent care and holistic nursing while thoroughly covering all relevant NCLEX PN test plan content With updated guidelines on diabetes heart failure asthma COPD and cancer treatment protocols no other resource offers the breadth of topics at a level that is so perfectly tailored to the LPN LVN student UNIQUE Gerontologic nursing unit covers physiologic and psychosocial changes in the older adult along with related disorders common to the elder patient the primary patient group for whom LPNs provide care UNIQUE In depth pharmacology coverage includes the Pharmacology Tutorial covering drug classifications how drugs work and nursing responsibilities Pharmacology Capsules boxes providing medication information precautions for use interactions and side adverse effects and Pharmacology and Medications tables including classification use action side adverse effects and nursing interventions Nursing care plans reinforce the nursing process and focus on critical thinking Get Ready for the NCLEX PN Examination sections at the end of chapters include key points review questions and case studies that address the various NCLEX Client Needs categories Coordinated Care boxes highlight team

approach to patient care helping you to prioritize tasks and assign them safely to assistive personnel Patient Teaching Plans provide bulleted lists of nursing instructions for patients stressing the role and responsibility of the LPN LVN to reinforce patient education Health Promotion Considerations boxes highlight timely wellness and disease prevention topics Cultural Considerations boxes discuss the importance of providing culturally competent care related to various clinical situations Put on Your Thinking Cap boxes allow you to pause and consider the practical implications of what you have just read Nutritional Considerations boxes are spotlighted at appropriate points throughout the text to emphasize the role that nutrition plays in disease and nursing care Complementary and Alternative Therapies focus on nontraditional therapies along with precautions and possible side effects Key terms with phonetic pronunciations help improve terminology and language skills of English as a Second Language ESL students and students with limited proficiency in English before they enter clinical practice

Electrical Measuring Instruments and Measurements S.C. Bhargava, 2012-12-27 This book written for the benefit of engineering students and practicing engineers alike is the culmination of the author's four decades of experience related to the subject of electrical measurements comprising nearly 30 years of experimental research and more than 15 years of teaching at several engineering institutions The unique feature of this book apart from covering the syllabi of various universities is the style of presentation of all important aspects and features of electrical measurements with neatly and clearly drawn figures diagrams and colour and b/w photos that illustrate details of instruments among other things making the text easy to follow and comprehend Enhancing the chapters are interspersed explanatory comments and where necessary footnotes to help better understanding of the chapter contents Also each chapter begins with a recall to link the subject matter with the related science or phenomenon and fundamental background The first few chapters of the book comprise Units Dimensions and Standards Electricity Magnetism and Electromagnetism and Network Analysis These topics form the basics of electrical measurements and provide a better understanding of the main topics discussed in later chapters The last two chapters represent valuable assets of the book and relate to a Magnetic Measurements describing many unique features not easily available elsewhere a good study of which is essential for the design and development of most electric equipment from motors to transformers and alternators and b Measurement of Non electrical Quantities dealing extensively with the measuring techniques of a number of variables that constitute an important requirement of engineering measurement practices The book is supplemented by ten appendices covering various aspects dealing with the art and science of electrical measurement and of relevance to some of the topics in main chapters Other useful features of the book include an elaborate chapter by chapter list of symbols worked examples exercises and quiz questions at the end of each chapter and extensive authors and subject index This book will be of interest to all students taking courses in electrical measurements as a part of a B Tech in electrical engineering Professionals in the field of electrical engineering will also find the book of use

Mastering Artisan Cheesemaking Gianaclis Caldwell, 2012-09-19 Every serious home scale artisan cheesemaker even

those just beginning to experiment will want this book as their bible to take them from their first quick mozzarella to a French mimolette and ultimately to designing their own unique cheeses This comprehensive and user friendly guide thoroughly explains the art and science that allow milk to be transformed into epicurean masterpieces Caldwell offers a deep look at the history science culture and art of making artisan cheese on a small scale and includes detailed information on equipment and setting up a home scale operation A large part of the book includes extensive process based recipes dictating not only the hard numbers but also the concepts behind each style of cheese and everything you want to know about affinage aging and using oils brushes waxes infusions and other creative aging and flavoring techniques Mastering Artisan Cheesemaking will also prove an invaluable resource for those with or thinking of starting a small scale creamery Let Gianacis Caldwell be your mentor guide and cheering section as you follow the pathway to a mastery of cheesemaking

*Mineral Commodity Profiles* United States. Bureau of Mines,1977      **Mineral Facts and Problems** United States. Bureau of Mines,1980      *Teacher's Guide and Key for Broadening Worlds of Science* Willard J. Jacobson,1959

Medical-Surgical Nursing - E-Book Susan C. deWit,Holly K. Stromberg,Carol Dallred,2016-02-26 Providing a solid foundation in medical surgical nursing Susan deWit s Medical Surgical Nursing Concepts and Practice 3rd Edition ensures you have the information you need to pass the NCLEX PN Examination and succeed in practice Part of the popular LPN LVN Threads series this uniquely understandable concise text builds on the fundamentals of nursing covering roles settings and health care trends all body systems and their disorders emergency and disaster management and mental health nursing With updated content chapter objectives and review questions this new edition relates national LPN LVN standards to practice with its integration of QSEN competencies hypertension diabetes and hypoglycemia Concept Maps in the disorders chapters help you visualize difficult material and illustrate how a disorder s multiple symptoms treatments and side effects relate to each other Get Ready for the NCLEX Examination section includes Key Points that summarize chapter objectives additional resources for further study review questions for the NCLEX Examination and critical thinking questions Nursing Care Plans with critical thinking questions provide a clinical scenario and demonstrate application of the nursing process with updated NANDA I nursing diagnoses to individual patient problems Anatomy and physiology content in each body system overview chapter provides basic information for understanding the body system and its disorders and appears along with Focused Assessment boxes highlighting the key tasks of data collection for each body system Assignment Considerations discussed in Chapter 1 and highlighted in feature boxes address situations in which the RN delegates tasks to the LPN LVN or the LPN LVN assigns tasks to nurse assistants per the individual state nurse practice act Gerontologic nursing presented throughout in the context of specific disorders with Elder Care Points boxes that address the unique medical surgical care issues that affect older adults Safety Alert boxes call out specific dangers to patients and teach you to identify and implement safe clinical care Evidence based Practice icons highlight current references to research in nursing and medical practice Patient

Teaching boxes provide step by step instructions and guidelines for post hospital care and prepare you to educate patients on their health condition and recovery Health Promotion boxes address wellness and disease prevention strategies that you can provide in patient teaching *Minerals Yearbook* ,1991 **A Dictionary of Mining, Mineral, and Related Terms** United States. Bureau of Mines,1968 Includes about 55 000 individual mining and mineral industry term entries with about 150 000 definitions under these terms *Geological Survey Circular* ,1951



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