

Name: Sam Li

Simulation: Ionic and Covalent Bonding

Background

In this investigation you will bond select atoms. Based upon the types of atoms that you choose to combine, you will create either an ionic compound or a covalent compound. You will have the opportunity to analyze the differences between these different types of compounds and to predict the number of atoms needed to create each, as well as learn how to appropriately name them.

1. Describe the difference between an atom and a molecule:

Atoms are single particles, and molecules are made up of multiple atoms

2. Where are metal atoms located on the periodic table? Where are non-metal atoms located on the periodic table?

Metals are on the left side and non-metals are on the right

3. What subatomic particle(s) participate in chemical bonding?

electron

4. In your own words, define valence electron.

electrons on outside ring which allow for bonding, negative charge

5. How can you determine the number of valence electrons in an atom using the periodic table?

Look at the atomic #

6. Draw a Lewis Dot Structure for the following atoms:

a. Strontium (Sr)



b. Carbon (C)



c. Iodine (I)



d. Xenon (Xe)

*Check your answers before moving on to the next portion of the activity.

Ionic Bonding Lab Answers

Kristin Tuttle Bump



Ionic Bonding Lab Answers:

Exercises for the Anatomy & Physiology Laboratory Erin C. Amerman, 2019-02-01 This concise inexpensive black and white manual is appropriate for one or two semester anatomy and physiology laboratory courses It offers a flexible alternative to the larger more expensive laboratory manuals on the market This streamlined manual shares the same innovative activities based approach as its more comprehensive full color counterpart Exploring Anatomy Physiology in the Laboratory 3e **Addison Wesley Chemistry 5th Edition Probeware Lab Manual 2002c** Antony C. Wilbraham, Dennis D. Staley, Michael S. Matta, Edward L. Waterman, Prentice-Hall Staff, 2001-02 To purchase or download a workbook click on the Purchase or Download button to the left To purchase a workbook enter the desired quantity and click Add to Cart To download a free workbook right click the FREE Download PDF link and save to your computer This will result in a faster download as opposed to left clicking and opening the link **Exploring Anatomy & Physiology in the Laboratory** Erin C. Amerman, 2017-02-01 Over two previous editions Exploring Anatomy Physiology in the Laboratory EAPL has become one of the best selling A P lab manuals on the market Its unique straightforward practical activity based approach to the study of anatomy and physiology in the laboratory has proven to be an effective approach for students nationwide This comprehensive beautifully illustrated and affordably priced manual is appropriate for a two semester anatomy and physiology laboratory course Through focused activities and by eliminating redundant exposition and artwork found in most primary textbooks this manual complements the lecture material and serves as an efficient and effective tool for learning in the lab *Exploring General Chemistry in the Laboratory* Colleen F. Craig, Kim N. Gunnerson, 2017-02-01 This laboratory manual is intended for a two semester general chemistry course The procedures are written with the goal of simplifying a complicated and often challenging subject for students by applying concepts to everyday life This lab manual covers topics such as composition of compounds reactivity stoichiometry limiting reactants gas laws calorimetry periodic trends molecular structure spectroscopy kinetics equilibria thermodynamics electrochemistry intermolecular forces solutions and coordination complexes By the end of this course you should have a solid understanding of the basic concepts of chemistry which will give you confidence as you embark on your career in science *A Laboratory Centered Molecular Biology Teaching Module which Facilitates the Teaching of Biological Science* Michael James Brundage, 1990 *English in Analytical Chemistry. Communicating about Methods & Techniques. Книга для студента* Надежда Зорина, Александра Соболева, 2022-10-19 *CSIR NET Earth, Atmospheric, Ocean Sciences Question Bank* Mocktime Publication, This comprehensive question bank for the CSIR NET in Earth Atmospheric Ocean and Planetary Sciences covers the full syllabus of Part B C of the single paper test General Science Research Aptitude in Part A According to the official pattern of the CSIR HRDG the paper is divided into three parts Part A with 20 questions answer any 15 Part B with 50 MCQs answer any 35 and Part C with 80 questions of analytical application nature answer any 25 for a total of 200 marks csirhrdg res in The question bank includes PDF formats of previous years

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Table of Contents Ionic Bonding Lab Answers

1. Understanding the eBook Ionic Bonding Lab Answers
 - The Rise of Digital Reading Ionic Bonding Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Ionic Bonding Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Ionic Bonding Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Ionic Bonding Lab Answers
 - Personalized Recommendations
 - Ionic Bonding Lab Answers User Reviews and Ratings
 - Ionic Bonding Lab Answers and Bestseller Lists
5. Accessing Ionic Bonding Lab Answers Free and Paid eBooks
 - Ionic Bonding Lab Answers Public Domain eBooks
 - Ionic Bonding Lab Answers eBook Subscription Services
 - Ionic Bonding Lab Answers Budget-Friendly Options
6. Navigating Ionic Bonding Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Ionic Bonding Lab Answers Compatibility with Devices
 - Ionic Bonding Lab Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Ionic Bonding Lab Answers
 - Highlighting and Note-Taking Ionic Bonding Lab Answers
 - Interactive Elements Ionic Bonding Lab Answers
8. Staying Engaged with Ionic Bonding Lab Answers

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Ionic Bonding Lab Answers
9. Balancing eBooks and Physical Books Ionic Bonding Lab Answers
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Ionic Bonding Lab Answers
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Ionic Bonding Lab Answers
- Setting Reading Goals Ionic Bonding Lab Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Ionic Bonding Lab Answers
- Fact-Checking eBook Content of Ionic Bonding Lab Answers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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