

Chemistry:

CHAPTER 1

- Charge of electron $\approx -1.6 \times 10^{-19}$; Avogadro's # $\approx 6 \times 10^{23}$
- Mass number (A) on top of element, atomic number (Z) below
- $E = \frac{hc}{\lambda} = -R \left[\frac{1}{n_1^2} - \frac{1}{n_2^2} \right]$; $E = qV$ (energy = charge on e- x electron volts); $c = \lambda\nu$ ($c = 3 \times 10^8$)
- **Heisenberg uncertainty** – impossible to determine momentum and position simultaneously
- **Pauli exclusion** – no electrons have same quantum #'s
- Max e- in a shell $\approx 2n^2$, max e- in subshell $\approx 4l+2$
 - Possible values for l ≈ 0 to $n-1$, possible values for ml $\approx -l$ to $+l$
- s can hold 2 e-, p ≈ 6 , d ≈ 10 , f ≈ 14
- **Aufbau principle** (building up) – lowest $n+l$ will fill first
- For anions add extra e-, for cations remove e- from subshells with highest n first
- **Hund's** – half filled orbitals with parallel spins (bus seats)
- **Paramagnetic** – unpaired parallel spin e-, attracted to magnetic field
 - **Diamagnetic** – paired e-, repelled by magnetic field
 - **Ferromagnetic** – unpaired e-, randomly oriented dipoles, become magnetized in field
- A faraday is equal to one mole of electric charge

CHAPTER 2

- **Z eff** increases from left to right, constant up and down
- **Ionic radius** is smallest near metalloid line and increases out
- F is smallest, most EN, highest IE and EA; Cs is the largest and least EN
- Complex ions from transition metals associate with water to form **hydration complexes**
- **Atomic radius** has the opposite trend of all others



CHAPTER 3

- C, N, O, F, Na, Mg always abide by octet rule; H, He, Li, Be, B can have incomplete; period 3 or higher can have expanded
- **Coordinate covalent bond** – both e- are contributed by one atom (lone pair attack, acid-base)
- Ionic \approx EN difference greater than 1.7, polar covalent \approx 0.5 to 1.7, nonpolar \approx less than 0.5
 - Ionic are stronger than covalent (which are both stronger than IM forces)
 - Van der Waals occurs more with close proximity and large molecules
- **Dipole moment** $\approx p = qd$
- Triple bonds are shorter and have more energy
- Major resonance contributor is more stable (less formal charge, negative on more EN atom)
 - **Formal charge = valence – nonbonding – ½ bonding**
- Electron geometry is when bonding and lone are equal, molecular geo is when lone repel more

Section 2 nuclear Chemistry Study Guide Key

John S. Phillips, Cheryl Wistrom



Section 2 nuclear Chemistry Study Guide Key:

This book delves into Section 2nuclear Chemistry Study Guide Key. Section 2nuclear Chemistry Study Guide Key is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Section 2nuclear Chemistry Study Guide Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Section 2nuclear Chemistry Study Guide Key
 - Chapter 2: Essential Elements of Section 2nuclear Chemistry Study Guide Key
 - Chapter 3: Section 2nuclear Chemistry Study Guide Key in Everyday Life
 - Chapter 4: Section 2nuclear Chemistry Study Guide Key in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of Section 2nuclear Chemistry Study Guide Key. This chapter will explore what Section 2nuclear Chemistry Study Guide Key is, why Section 2nuclear Chemistry Study Guide Key is vital, and how to effectively learn about Section 2nuclear Chemistry Study Guide Key.
 3. In chapter 2, the author will delve into the foundational concepts of Section 2nuclear Chemistry Study Guide Key. This chapter will elucidate the essential principles that need to be understood to grasp Section 2nuclear Chemistry Study Guide Key in its entirety.
 4. In chapter 3, this book will examine the practical applications of Section 2nuclear Chemistry Study Guide Key in daily life. The third chapter will showcase real-world examples of how Section 2nuclear Chemistry Study Guide Key can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of Section 2nuclear Chemistry Study Guide Key in specific contexts. The fourth chapter will explore how Section 2nuclear Chemistry Study Guide Key is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, the author will draw a conclusion about Section 2nuclear Chemistry Study Guide Key. This chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Section 2nuclear Chemistry Study Guide Key.

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