

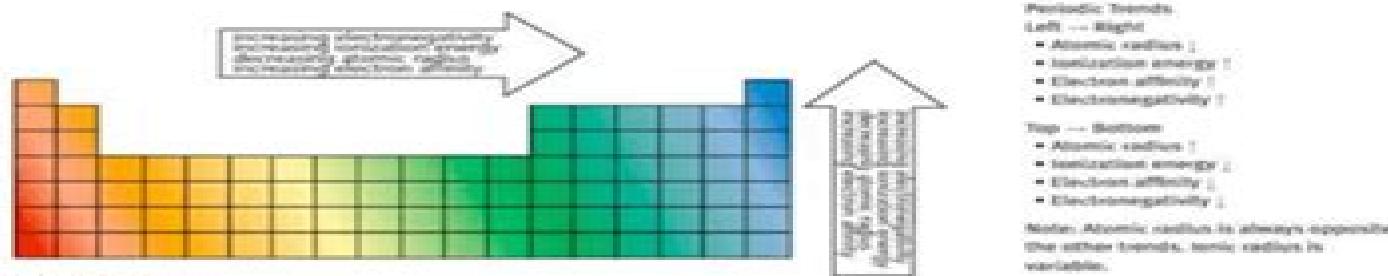
Chemistry:

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); $c = \lambda f$ ($c = 3 \times 10^8$)
- 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 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 ΔEN difference greater than 1.7, polar covalent ≈ 0.5 to 1.7, nonpolar ΔEN 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 - $\frac{1}{2}$ bonding
- Electron geometry is when bonding and lone are equal, molecular geo is when lone repel more

Section 2 nuclear Chemistry Study Guide Key

Darrell D. Ebbing

Section 2 Nuclear Chemistry 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 [Chemistry, Student Study Guide](#) John A. Olmsted, Gregory M. Williams, 2005-02-02 100% Pure Chemical Understanding Every morning many of us are energized by a cup of coffee. Imagine if you were as energized by understanding the chemistry in your morning cup from the coffee trees which fill red coffee berries with caffeine and a variety of other chemical substances to the feathery crystals formed by the caffeine molecules to the decaffeinating machines which use liquid solvents to remove this stimulant from some of the beans. Now that's a real chemical understanding. Olmsted and Williams Fourth Edition of Chemistry focuses on helping you see and think about the world and even your coffee as a chemist. This text helps you understand how chemical phenomena are governed by what happens at the molecular level, apply critical thinking skills to chemical concepts and problems, and master the basic mathematical techniques needed for quantitative reasoning. You'll see the world as chemists do and learn to appreciate the chemical processes all around us. A Fourth Edition with a lot of new perks. Revisions include a new early energy chapter, revised coverage of bonding, expanded coverage of intermolecular forces, and increased coverage of multiple equilibria including polyprotic acids. New pedagogy strengthens students' critical thinking and problem solving skills. Visual Summaries at the end of each chapter use molecular and diagrammatic visual elements to summarize essential skills, concepts, equations, and terms. eGrade Plus provides an integrated suite of teaching and learning resources including a complete online version of the text, links between problems and relevant sections in the online text, practice quizzes, the Visual Tutor, Interactive LearningWare problems and lab demos, as well as homework management and presentation features for instructors.

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