

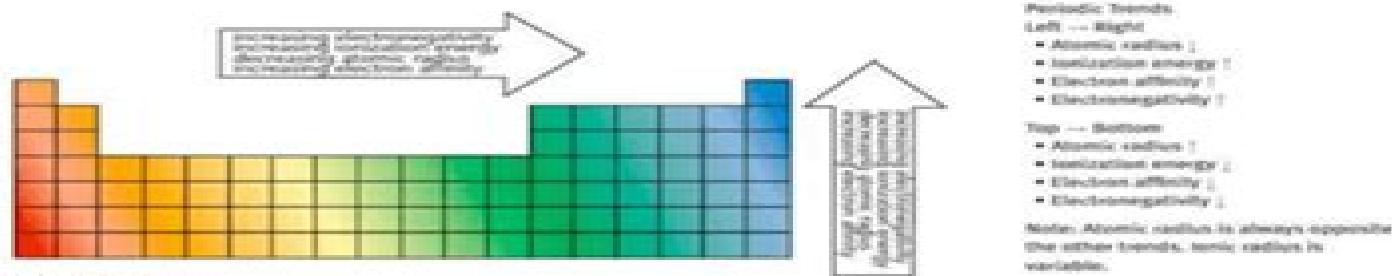
## Chemistry:

### 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  $\approx 0$  to  $n-1$ , possible values for ml  $\approx -l$  to  $+l$
- S can hold 2 e-, p  $\approx 6$ , d  $\approx 10$ , f  $\approx 14$
- 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  $\Delta EN$  difference greater than 1.7, polar covalent  $\approx 0.5$  to 1.7, nonpolar  $\Delta EN$  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

**Susan McMurry**

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

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**Guide with Solutions for Organic Chemistry, Third Edition** Ralph J. Fessenden,Joan S. Fessenden,1986 Provides a set of additional drill problems chapter by chapter discussions and supplemental instructional material to help students master organic chemistry problem solving techniques **Chemistry** Charles E. Mortimer,1983 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine

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**Energy Research Abstracts** ,1988 **Chemistry** John S. Phillips,Cheryl Wistrom,2000 **Resources in Education**,1985 **Science Books & Films** ,1989

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web dec 1 2020 le ligament croisé antérieur lca constitue avec le ligament croisé postérieur lcp le pivot central du genou responsable de sa stabilité antéropostérieure et rotatoire dans l ensemble de l amplitude articulaire comparés aux autres structures ligamentaires ces deux ligaments ont la particularité d être intra articulaires mais extra

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