

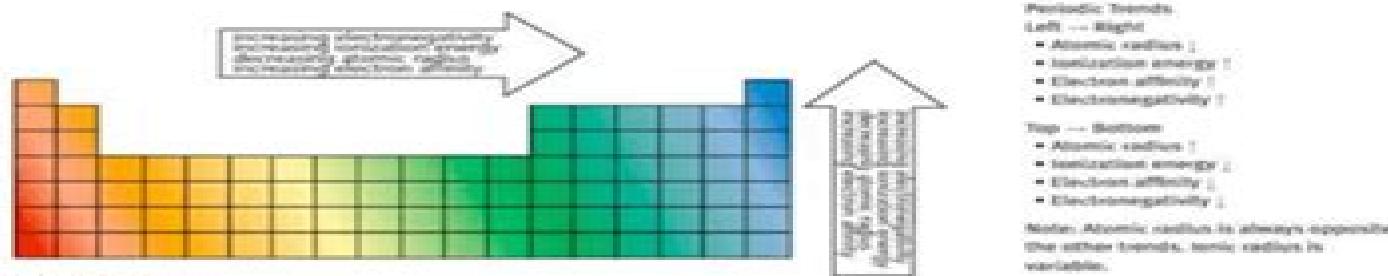
## Chemistry:

### 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

**Alan S. Wingrove, Robert L. Caret**

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**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.

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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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