

Chapter 9 : Bonding & Molecular Structure Fundamentals

- Lewis dot symbols for atoms
- ionic bonds
- covalent bonds - polar vs nonpolar
 ΔEN
- Lewis dot formulae for molecules + ions
- Octet rule + VSEPR theory + resonance
- Exceptions to octet rule
- formal charges (not for testing)
- bond properties - bond order, length, strength
- calculation of ΔH_{rxn} using bond dissociation energies, D.