

LECTURE 36 REVIEW

I. Case Study: Methionine Synthase

- A. Kinetics
 - 1. Enzyme
 - 2. Inhibition
- B. Transition metals
 - 1. Tetradentate ligand
 - 2. d-electron count
 - 3. Chelate effect
- C. VSEPR
 - 1. Steric number
 - 2. Geometry
 - 3. Angles
- D. Oxidation / Reduction

II. Review

- A. Reducing agent
- B. Spontaneous reaction
- C. ΔG°

III. Acid-Base Equilibrium

- A. Deprotonation
- B. pKa
- C. Lewis acid

IV. Chemical Equilibrium

- A. Conformational changes