

LECTURE 18
FREE ENERGY OF FORMATION ΔG_f°

I. Standard Gibbs Free Energy of Formation

- A. Thermodynamic stability
- B. Calculating ΔG° for a reaction

II. Second Law of Thermodynamics

- A. Controlling spontaneity with temperature
- B. ΔG at any pressure (ideal gases)

III. Chemical Equilibrium

- A. Thermodynamic equilibrium constant
- B. Reaction quotient and direction of change