



Department of Civil and Environmental Engineering  
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## Aquatic Environmental Science

### 5. Dissolution and Kinetics

1. Dissolution & Precipitation
    - Solubility
    - Dissociation constant
    - Solubility product
    - pH and solubility
  2. Importance of Rate of Reaction
    - Rate and Ratio
    - Half life
    - Time scale for different reaction
    - Streeter Phelps's equation
    - Equilibrium Constant
    - Equilibrium versus steady-state
  3. Kinetics
    - Order of reactions
    - Factor influencing rate constant
    - Kinetics in environmental processes
  4. Exercise
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