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## ACS ANALYTICAL CHEMISTRY STUDY GUIDE

- $k_f$ :  $k_f = k_f \cdot a$
  - EDTA titrations: 1. before eq EDTA binds to metal 1:1
2. At eq we assume that all metal ions can bind to EDTA and then use  $k_f$
- Potentiometry: an analytical method in which an electric potential difference (avoltage) of a cell is measured
  - Reducing agent: Donates electrons and becomes oxidized.
  - oxidizing agent: Accepts electrons and becomes reduced.
  - coulometry: science of measuring change and relating it to analyte
  - cathode: the electrode at which reduction occurs
  - Anode: the electrode at which oxidation occurs
  - $E_{cell}$ :  $E_{cell} = E_{red} - E_{ox}$
  - Faraday's Equation:  $E = E - (0.0592/n) \log(a/b)$
  - ||: anode always written on left of ||
  - amperometry: elec techniques where the cell current is measured where pot diff between the indicator and reference electrode is controlled
  - Clark electrode: Electrode for oxygen
  - Biosensors: Detecting devices that can detect specific substances in cells
  - amp chromo det: point, size, or charge
  - limiting current: the diff between current and steady state max
  - Anodic vol: Very sensitive for analyzing metals into ppb
  - fluorescence: used to measure singlets, atoms like rigid aromatic rings, high sensitivity
  - phosphorescence: involves emission of light trip- singlet, much lower than fluoro
  - Transmittance:  $A = -\log(T)$  or  $2 - \log(T\%)$
  - atomic absorption: lamp-flame-mono-detector
  - atomic emission: flame-mono-detector
  - AA hollow cathode lamp: used to form very narrow band lights
  - AA atomizer: Heat sample to very high temps to break all chemical bonds, hot enough to

# Physical Chemistry Acs Study Guide

**Oscar Krisen Buros**



**Physical Chemistry Acs Study Guide:**

## Unveiling the Power of Verbal Beauty: An Emotional Sojourn through **Physical Chemistry Acs Study Guide**

In a global inundated with screens and the cacophony of quick communication, the profound energy and mental resonance of verbal beauty often diminish in to obscurity, eclipsed by the constant barrage of noise and distractions. However, situated within the musical pages of **Physical Chemistry Acs Study Guide**, a fascinating work of literary splendor that pulses with natural emotions, lies an unforgettable journey waiting to be embarked upon. Composed with a virtuoso wordsmith, that enchanting opus courses readers on a mental odyssey, lightly exposing the latent possible and profound influence stuck within the complicated web of language. Within the heart-wrenching expanse of the evocative evaluation, we shall embark upon an introspective exploration of the book is central themes, dissect its charming publishing design, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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