
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

Zhe Xu



Physical Chemistry Acs Study Guide:

Physical Chemistry Acs Study Guide Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has be much more evident than ever. They have the capability to inspire, provoke, and ignite change. Such could be the essence of the book **Physical Chemistry Acs Study Guide**, a literary masterpiece that delves deep in to the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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