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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:  $E = E - (.0592/n) \log(a/b)$
  - ||: 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

# Analytical Chemistry Study Guide

**Albert Benjamin Prescott**



## **Analytical Chemistry Study Guide:**

*Chemistry Study Guide for HKDSEE: Analytical chemistry* C. W. Hui, S. M. Lai, C. T. Wong, Yung-tsou Huang, P. H. Chiu (Patrio), 2014

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Quality in the Analytical Chemistry Laboratory Neil T. Crosby, Elizabeth Prichard, 1995 Introducing chemists to the concept of quality assurance this text explains how all aspects of analytical chemistry affect the quality of the resulting analytical data Various quality systems are analyzed and their implementation described      **A Laboratory Guide in**

**Qualitative Chemical Analysis** Horace Lemuel Wells, 1898      *Guide to a Systematic Course of Qualitative Chemical Analysis* Silas Hamilton Douglas, 1865      **The Analytical Chemistry Laboratory Companion** Michael D.

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**The Scientific Foundations of Analytical Chemistry Treated in an Elementary Manner** Wilhelm Ostwald, 1895

*Analytical Chemistry* Gary D. Christian, Purnendu K. Dasgupta, Kevin A. Schug, 2013-10-07 With the 7th Edition of Analytical Chemistry renowned chemists Purnendu Sandy Dasgupta and Kevin Schug both of the University of Texas Arlington join the author team The new edition focuses on more in depth coverage of the principles and techniques of quantitative analysis and instrumental analysis aka Analytical Chemistry The goal of the text is to provide a foundation of the analytical process tools and computational methods and resources and to illustrate with problems that bring realism to the practice and importance of analytical chemistry It is designed for undergraduate college students majoring in chemistry and in fields related to chemistry

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