

# **ACS ANALYTICAL CHEMISTRY STUDY GUIDE**

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- $k_f'$ :  $k_f' = k_f^* \cdot a$
- 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
- Ecell:  $E_{cell} = E_{red} - E_{ox}$
- 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 sensative for analyzing metals into ppb
- fluroescence: used to measure singlets, atoms like rigid aromatic rings, high sensitivity
- phosphorescence: involves emission of light trip- singlet, much lower than fluro
- Transmittance:  $A = -\log(T)$  or  $2 - \log(T\%)$
- atomic absorbtion: lamp-flame-mono-detector
- atomic emission: flame-mono-detector
- A.A. hollow cathode lamp: used to form very narrow band lights
- A.A. atomizer: Heat sample to very high temps to break all chemical bonds, hot enough to

# Acs Analytical Study Guide

**Judith Tintinalli, J. Stapczynski, O. John  
Ma, David Cline, Rita Cydulka, Garth  
Meckler**

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tobacco and E Cigarettes vapes and other electronic nicotine delivery systems ENDS In the second and main part of the book the analytical methods for the compounds in the established list from the U S Food and Drug Administration FDA of HPHC are discussed For example in cigarette smoke specific discussions related to the analytical methods for nicotine acetaldehyde acrolein acrylonitrile aromatic amines ammonia benzene benzo a pyrene 1 3 butadiene carbon monoxide crotonaldehyde formaldehyde isoprene TSNA s and toluene are presented Specific analytical methods for the analysis of HPHC in ENDS are also included Various other analytical methods used for all the 93 HPHC in the established list by FDA for tobacco products and tobacco smoke are presented The book will be useful to scientists working in the industry as well as students and researchers interested in the area

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