



Analytical Chemistry: An Introduction (Saunders Golden Sunburst Series)

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Brooks Cole, 1999. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1. Introduction. Section I. The Tools of Analytical Chemistry. 2. Chemicals and Apparatus: Putting the Tools to Work. 3. Important Chemical Concepts: Expressing Quantities and Concentrations. 4. The Basic Approach to Chemical Equilibrium. 5. Errors in Chemical Analysis: Assessing the Quality of Results. 6. Random Errors: How Certain Can We Be? 7. Statistical Analysis: Evaluating the Data. Section II. Principles and Applications of Chemical Equilibria. 8. Gravimetric Methods of Analysis. 9. Electrolyte Effects: Activity or Concentration? 10. How Equilibrium Calculations Can Be Applied to Complex Systems. 11. Titrations: Taking Advantage of Stoichiometric Reactions. 12. Principles of Neutralization Titrations: Determining Acids, Bases, and the pH of Buffer Solutions. 13. Titrating Polyfunctional Acids and Bases. 14. Applying Neutralization Titrations. 15. Complex-Forming Titrations: Taking Advantage of Complexing Agents and Precipitating Agents. Section III. Electrochemical Methods. 16. Elements of Electrochemistry. 17. Using Electrode potentials. 18. Applying Oxidation/Reduction Titrations. 19. Potentiometry: Measuring Concentrations of Ions and Molecules. 20. A Brief Look at Some Other Electroanalytical Methods. Section IV. Spectrochemical Analysis. 21. Spectroscopic methods of Analysis: making Measurements with Light. 22. Instruments for Measuring Absorbtion: Is It a Photometer....

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