



### Analytical Chemistry: A Modern Approach to Analytical Science

By Robert Kellner; Jean-Michel Mermet; Matthias Otto; Miguel Valcarcel; H. Michael Widmer

Wiley-VCH, 2004. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Foreword.Contributors.Preface to the Second Edition.Preface to the First Edition.PART I: INTRODUCTION TO ANALYTICAL CHEMISTRY.1. Analytical Chemistry as a (Bio)chemical Discipline.2. Key References in Analytical Sciences.3. Analytical Features.4. The Analytical Process.5. The Analytical Problem.6. Analytical Quality Management.PART II: BASIC STATISTICS AND CHEMOMETRICS.7. Basic Statistics.8. Advanced Chemometrics.8.1 Calibration.8.2 Signal Processing.8.3 Optimizatio and Experimental Design.8.4 Pattern Recognition and Classification.8.5 Multivariate Modeling.8.6 Computer Hard- and Software and Interfacing Analytical Instruments.PART III: METHODS BASED ON CHEMICAL REACTIONS.9. Introduction to Chemical Equilibria.10. Acid-Base Equilibria and Titrations.11. Complexes in Analytical Chemistry - Complexometric Titrations.12. Redox Equilibria and Titrations.13. Precipitation Methods and Thermoanalysis.13.1 Precipitation Methods.13.2 Thermal Analysis.14. Liquid-Liquid Systems.15. Liquid-Solid Equlibria.16. Gas-Liquid and Gas-Solid Systems.17. Kinetics and Catalysis.PART IV: SEPARATION METHODS.18. Electroanalysis.PART V: SEPARATION METHODS.19. Introduction to Separation Methods.20. Sample Preparation.21. Chromatography.22. Electrophoresis.23. Field-Flow Fractionation.PART VI: ATOMIC AND MOLECULAR SPECTROSCOPY.24. Flemental Analysis.24.1 Introduction.24.2

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