

CONTENTS

1. Introduction	1
2. Historical Background	5
3. Electron Optics Column and Circuits	20
4. X-Ray Spectrometers	41
5. Detectors and Energy Dispersion	57
6. Types of Specimens, Preparation, Examination, and Interpretation	71
7. Introduction to Quantitative Analysis: Empirical Methods; The Correction-Factor Approach	101
8. Advanced Computer Methods for Quantitative Analysis	124
9. Related Instrumentation and Techniques	130