

Contents

<i>Preface</i>	<i>v</i>
1. Basics of Analytical Chemistry	1
2. Spectroscopy	14
3. Fluorescence Spectroscopy	23
4. X-ray Crystallography	30
5. Crystallographic Database	56
6. Crystallisation	69
7. Laser-induced Breakdown Spectroscopy	82
8. Infrared Spectroscopy	88
9. NMR Spectroscopy	95
10. Chromatography	103
11. Column Chromatography	113
12. Gas-liquid Chromatography	120
13. Mass Spectrometry	136
14. Microscopy	155
15. Electrochemistry	173
16. Corrosion	186
17. Electrolysis	196
18. Gravimetric Analysis	204

19. Separation Process	209
20. Differential Scanning Calorimetry	213
21. Energy-dispersive X-ray Spectroscopy	220
22. Gas Chromatography-Mass Spectrometry	225
23. Ion Selective Electrode	236
24. Nuclear Magnetic Resonance	241
<i>Bibliography</i>	255
<i>Index</i>	257