

CONTENTS

1. Historical Introduction	1
2. Solvent Extraction and the History of Partition Chromatography	10
3. Paper Chromatography and Thin Layer Chromatography	28
4. Electrophoresis	50
5. Gel Filtration	80
6. Ion Exchange	86
7. HPLC	118
8. Ion Chromatography	126
9. Gas Chromatography	133
10. Separation of Isotopes	140
11. Separation of Optical Isomers	151
12. Some Elements and their Chromatography and Electrophoresis	162
(i) Boron	162
(ii) Condensed phosphates	163
(iii) Sulphur compounds	170
(iv) Halogen acids, especially halogen oxyacids	176
(v) Rhenium and technetium	180
(vi) Ruthenium	187
(vii) Rhodium	193
(viii) The rare earths	199
(ix) Chromatography at tracer levels	208
Polonium	209
Protactinium	211
Index	219