

CONTENTS

1. Typical elements	1
2. Oxo-acids and oxo-acid salts	13
3. High temperature reactions	27
4. The elements of the first transition series	39
5. The preparation of some manganese compounds	49
6. Co-ordination chemistry I: typical compounds	55
7. Clathrate compounds	60
8. Double salts	65
9. The stabilization of oxidation states	68
10. Electrochemical oxidation and reduction	79
11. Co-ordination chemistry II: stereochemistry	88
12. Homogeneous catalysis	108
13. Chemistry in non-aqueous solvents	119
14. Inorganic polymers	130
15. High vacuum techniques in chemistry	136
16. Inert atmosphere techniques	149
17. Spectroscopic techniques	158
18. Conductance measurements	186
19. Gas chromatography	192
20. Magnetic measurements	199
21. Potentiometric titrations	208
22. Polarimetry	213
General Bibliography	218
Index	219