

CONTENTS

Section A: GENERAL

1. Basic Principles and Historical Development	3
2. Theory	32
3. Instrumentation	63
4. Technique	101
5. Complementary Methods	123

Section B: INORGANIC MATERIALS

6. Metals and Alloys	161
7. Chalcogenides	193
8. Oxides and Hydroxides of Monovalent and Divalent Metals	238
9. Oxides and Hydroxides of Higher-Valency Elements	272
10. Carbonates	303
11. Simple Salts	343
12. Chlorates and Perchlorates	363
13. Oxysalts	396
14. Complex Salts	427
15. Inclusion Compounds	447
16. Salt Minerals	463
17. Silica Minerals	477
18. Simple Phyllosilicates Based on Gibbsite- and Brucite-like Sheets	498
19. Interstratified Phyllosilicates	539
20. Palygorskites and Sepiolites (Hormites)	553
21. Other Silicates	575

Section C: ORGANIC MATERIALS

22. Organic Compounds	611
23. Polymeric Materials	643
24. Biological Materials	673
25. Solid Fuels	705