

CONTENTS

PART ONE-THE THERMOBALANCES

Chapter 1. Brief Historical Review	3
Chapter 2. Deflection Type Thermobalances	25
Chapter 3. Null Type Thermobalances	65
Chapter 4. Applications of the Thermobalances	78
Chapter 5. Precautions to be taken in the Use of the Thermo-balance	126

PART TWO-THE THERMOLYSIS CURVES

Chapter 6. Lithium	165
Chapter 7. Beryllium	170
Chapter 8. Boron	175
Chapter 9. Carbon	179
Chapter 10. Nitrogen	
A. Anions derived from nitrogen	183
B. Salts derived from ammonia	186
Chapter 11. Fluorine	192
Chapter 12. Sodium	195
Chapter 13. Magnesium	214
Chapter 14. Aluminium	226
Chapter 15. Silicon	237
Chapter 16. Phosphorus	242
Chapter 17. Sulphur	248
Chapter 18. Chlorine	253
Chapter 19. Potassium	255
Chapter 20. Calcium	270
Chapter 21. Scandium	286
Chapter 22. Titanium	289
Chapter 23. Vanadium	294
Chapter 24. Chromium	301
Chapter 25. Manganese	312
Chapter 26. Iron	322
Chapter 27. Cobalt	336
Chapter 28. Nickel	355
Chapter 29. Copper	371
Chapter 30. Zinc	405
Chapter 31. Gallium	416

Chapter 32. Germanium	421
Chapter 33. Arsenic	425
Chapter 34. Selenium	430
Chapter 35. Bromine	432
Chapter 36. Rubidium	433
Chapter 37. Strontium	437
Chapter 38. Yttrium	442
Chapter 39. Zirconium	445
Chapter 40. Niobium	458
Chapter 41. Molybdenum	461
Chapter 42. Ruthenium	470
Chapter 43. Rhodium	472
Chapter 44. Palladium	475
Chapter 45. Silver	482
Chapter 46. Cadmium	492
Chapter 47. Indium	504
Chapter 48. Tin	508
Chapter 49. Antimony	511
Chapter 50. Tellurium	518
Chapter 51. Iodine	521
Chapter 52. Cesium	524
Chapter 53. Barium	528
Chapter 54. Lanthanum	537
Chapter 55. Cerium	542
Chapter 56. Praseodymium	546
Chapter 57. Neodymium	549
Chapter 58. Samarium	553
Chapter 59. Europium	556
Chapter 60. Gadolinium	558
Chapter 61. Terbium	561
Chapter 62. Dysprosium	562
Chapter 63. Holmium	564
Chapter 64. Erbium	565
Chapter 65. Thulium	567
Chapter 66. Ytterbium	568
Chapter 67. Lutetium	570
Chapter 68. Hafnium	571
Chapter 69. Tantalum	575
Chapter 70. Tungsten	577
Chapter 71. Rhenium	585

Chapter 72. Osmium	588
Chapter 73. Iridium	589
Chapter 74. Platinum	591
Chapter 75. Gold	595
Chapter 76. Mercury	600
Chapter 77. Thallium	610
Chapter 78. Lead	618
Chapter 79. Bismuth	635
Chapter 80. Thorium	647
Chapter 81. Uranium	659
Chapter 82. Plutonium	673
Chapter 83. Americium	674
Chapter 84. Studies in Organic Chemistry	675
Author Index	685
Subject Index	700