

544.6 AHR 2nd ed.

CONTENTS

CHAPTER 1. INTRODUCTION	1
PART 1. GENERAL PRINCIPLES	
CHAPTER 2. ORIGIN AND INTERPRETATION OF SPECTRA	7
CHAPTER 3. SOME PHYSICAL FEATURES OF THE D-C ARC DISCHARGE	18
CHAPTER 4. POWER FOR THE ARC SOURCE	37
CHAPTER 5. SAMPLE PREPARATION AND OPERATING PROCEDURES	41
CHAPTER 6. QUALITATIVE ANALYSIS	67
CHAPTER 7. SELECTIVE VOLATILIZATION. (FRACTIONAL DISTILLATION)	80
CHAPTER 8. GENERAL PRINCIPLES OF QUANTITATIVE ANALYSIS	88
CHAPTER 9. THE EFFECT OF A CHANGE OF MATRIX ON LINE INTENSITY	119
CHAPTER 10. ENRICHMENT PROCEDURES	130
CHAPTER 11. THE PHOTOGRAPHIC MEASUREMENT OF RADIANT ENERGY AND THE CONSTRUCTION OF A WORKING CURVE	139
CHAPTER 12. BAND SPECTRA	170
PART 2. THE ELEMENTS	
CHAPTER 13. GENERAL SEMIQUANTITATIVE AND QUANTITATIVE METHODS APPLICABLE TO A LARGE NUMBER OF ELEMENTS	179
CHAPTER 14. LI; RB AND CS	194
CHAPTER 15. B; BE; SR AND BA	202
CHAPTER 16. SC; ZR AND HF; U AND TH; RE	210
CHAPTER 17. THE RARE EARTH ELEMENTS (Y AND ELEMENTS 57-71)	218
CHAPTER 18. NI AND CO; V; CR	227
CHAPTER 19. GA; IN; TL	233
CHAPTER 20. PB; CU; SN; GE	242
CHAPTER 21. THE NOBLE METALS. AG; AU; PT, PD, RH, IR, OS, AND RU	251
CHAPTER 22. W; MO; NB AND TA	258
CHAPTER 23. ZN AND CD; AS, SB, BI, AND HG	264
CHAPTER 24. TE AND SE; P; C	272
CHAPTER 25. FLUORINE AND CHLORINE	277
CHAPTER 26. COMMON ELEMENTS USUALLY PRESENT AS MAJOR CONSTITUENTS	284
BIBLIOGRAPHY	305
APPENDIX. WAVELENGTH TABLES	353
PERIODIC TABLE	429
AUTHOR INDEX	431
SUBJECT INDEX	441