

CONTENTS

1. DEVELOPMENT OF ACID-BASE CONCEPTS	1
2. STRENGTH OF ACIDS	14
3. STRENGTH OF BASES	60
4. RELATIONSHIP BETWEEN ACIDITY, BASICITY AND MOLECULAR STRUCTURE	74
5. GENERAL PROPERTIES OF SOLVENTS	101
6. SOLVENTS USED IN NON-AQUEOUS TITRIMETRY	109
7. CHEMICAL AND PHYSICO-CHEMICAL CHARACTERISTICS OF SOLVENTS	120
8. PURIFICATION OF SOLVENTS	136
9. ACIDIC TITRANTS	152
10. BASIC TITRANTS	160
11. RARELY USED TITRANTS	168
12. POTENTIOMETRIC END-POINT DETECTION	173
13. INDICATORS	198
14. PHOTOMETRIC END-POINT	219
15. DETERMINATION OF ACIDIC SUBSTANCES	239
16. DETERMINATION OF ACID ANHYDRIDES, ACYL HALIDES, REACTIVE ALKYL AND ARALKYL HALIDES	260
17. DETERMINATION OF COMPOUNDS CONTAINING ENOLIC HYDROXYL OR IMIDE GROUP	268
18. DETERMINATION OF COMPOUNDS CONTAINING PHENOLIC HYDROXYL	279
19. DETERMINATION OF COMPOUNDS CONTAINING ALCOHOLIC HYDROXYL	287
20. DETERMINATION OF NITRO COMPOUNDS	300
21. SEMIMICRO AND MICRO TITRATION OF ACIDS AND ACID ANAOGUES	303
22. DETERMINATION OF SALTS OF CARBOXYLIC ACIDS	310
23. DETERMINATION OF NITROGENOUS ORGANIC BASES	316
24. DETERMINATION OF SALTS OF NITROGENOUS BASES	351
25. DETERMINATION OF MIXTURES OF NITROGENOUS BASES OR MIXTURES OF BASE HYDROCHLORIDES	374
26. DETERMINATION OF CARBONYL GROUPS	388
27. DETERMINATION OF MULTIPLE BONDS: APPLICATION OF MERCURY(II) ACETATE REAGENT. APPLICATION OF BROMINE IN ACETIC ACID OR 0.1 N HYDROGEN BROMIDE IN ACETIC ACID	395
28. DETERMINATION OF ELEMENTARY SULPHUR AND ORGANIC COMPOUNDS CONTAINING SULPHUR. APPLICATION OF SILVER NITRATE IN PYRIDINE REAGENT	403
29. REDOX TITRATION IN NON-AQUEOUS MEDIA	409

30. TITRATIONS WITH COMPLEX FORMATION IN NON-AQUEOUS MEDIA	415
31. DETERMINATION OF THE ALKOXYL GROUP, CARBAMIC ACID ESTERS, SUBSTITUTED PHOSPHINES, ORGANOSILICON COMPOUNDS	419
References	425
Author index	445
Subject index	455