

CONTENTS

CHAPTER	PAGE
I. EQUIVALENTS AND ATOMIC WEIGHTS - - -	1
II. MOLECULAR THEORY - - - - -	13
III. VAPOUR PRESSURES - - - - -	40
IV. SOLUBILITIES, PARTITION LAW, CONGRUENT MELTING POINTS - - - - -	68
V. LAW OF MASS ACTION - - - - -	86
VI. ABNORMALITY - - - - -	119
VII. THERMOCHEMISTRY - - - - -	134
VIII. THE MASS LAW AND IONIC THEORY - - -	158
IX. ELECTROCHEMISTRY - - - - -	181
X. VOLUMETRIC ANALYSIS (1) - - - - -	205
XI. VOLUMETRIC ANALYSIS (2) - - - - -	219
XII. DETERMINATION OF NATURE OF REACTION BY VOLUMETRIC METHODS - - - - -	229
XIII. CALCULATIONS IN ORGANIC CHEMISTRY (1) -	259
XIV. CALCULATIONS IN ORGANIC CHEMISTRY (2) -	266
XV. CALCULATIONS IN ORGANIC CHEMISTRY (3) -	275
XVI. MAXIMUM WORK OF PHYSICAL CHANGE - -	296
XVII. APPLICATIONS OF THE SECOND LAW OF THERMO- DYNAMICS TO SOLUTION - - - - -	323
XVIII. GIBBS-HELMHOLTZ EQUATION - - - -	337
XIX. CONCENTRATION CELLS - - - - -	358
XX. STANDARD ELECTRODE POTENTIAL - - -	376
XXI. NERNST'S HEAT THEOREM (THIRD LAW OF THERMODYNAMICS) - - - - -	400
APPENDIXES - - - - -	428
TABLES OF LOGARITHMS AND ANTILOGARITHMS	435
ANSWERS - - - - -	439
INDEX - - - - -	452