

CONTENTS

CHAPTER	PAGE
I ATOMS AND MOLECULES	1
II ENERGETICS	15
III REACTION KINETICS	37
IV ELECTROSTATICS AND DIELECTRICS	59
V IONS IN SOLUTION	74
VI ELECTROMOTIVE FORCE CELLS	90
VII ACIDS AND BASES	103
VIII OXIDATION-REDUCTION	131
IX ELECTRICAL CONDUCTANCE	147
X ELECTROKINETICS	155
XI SURFACE ACTIVITY	185
XII COLLOIDAL SOLUTIONS	224
XIII VISCOSITY AND THE FLOW OF LIQUIDS	250
XIV DIFFUSION	272
XV THE ULTRACENTRIFUGE	285
XVI OSMOTIC PRESSURE	293
XVII MEMBRANES AND CELL PENETRATION	309
XVIII COLLOIDAL STRUCTURES	327
INDEX	341