
CONTENTS



Preface	ix
Chapter 1 Introduction	1
Chapter 2 Optical Activity	62
Chapter 3 The Chemistry of Carbohydrates	82
Chapter 4 The Chemistry of the Lipids	112
Chapter 5 The Chemistry of the Amino Acids and the Proteins	148
Chapter 6 The Chemistry of the Purines, Pyrimidines, and Nucleic Acids	201
Chapter 7 Some Thermodynamic Aspects of Biochemical Systems: Bioenergetics	259
Chapter 8 The Kinetics of Biochemical Reactions: Enzymes	282
Chapter 9 Carbohydrate Metabolism	330
Chapter 10 The Tricarboxylic Acid Cycle	411
Chapter 11 Electron Transport and Energy Production	442
Chapter 12 Lipid Metabolism	474
Chapter 13 Metabolism of Purines, Pyrimidines, and Nucleic Acids	543
Chapter 14 Metabolism of Amino Acids and Proteins	611
Index	751