

CONTENTS

Chapter	
1. Introduction	1
2. The Pathway from Glucose to Pyruvate	7
3. The Phosphate System: Energy-rich Phosphate	63
4. The Citric Acid Cycle	89
5. The Reactions of Pyruvate	113
6. The Pathways to Oxygen	149
7. The Introduction of Nitrogen	177
8. The Metabolism of Amino-acids	189
9. Methyl and Other One-carbon Compounds	261
10. The Origin and Breakdown of Aromatic Rings	295
11. The Origin and Breakdown of Nucleic Acid, Purines, and Pyrimidines	342
12. The Lipides	392
Appendix	433
Index	434