

CONTENTS

1. Introduction	3
2. The Architecture of Atoms and Molecules	7
3. Hydrocarbons	31
4. Halogen Derivatives of The Paraffins	49
5. Alcohols and Ethers	56
6. Aldehydes and Ketones	73
7. Carboxylic Acids and Their Derivatives	86
8. Organic Compounds of Nitrogen And Sulphur	129
9. Carbohydrates	138
10. Alicyclic Compounds	152
11. Reactivity and Structure-Some Aspects	161
12. Benzene and Its Derivatives	181
13. Aromatic Amines, Diazo Compounds, and Dyes	212
14. Phenols and Aromatic Alcohols	227
15. Aromatic Aldehydes, Ketones, And Quinones	240
16. Aromatic Carboxylic Acids	251
17. Heterocyclic Compounds and Alkaloids	263
18. Drugs, Hormones, Vitamins, and Enzymes	274
19. Giant Molecules or Polymers	284
Appendix A-Experiments and Preparations Reactions Requiring Heat	297
Appendix B-Essential Items for Experiments	311
Appendix C-Suggested Further Readings	313
Appendix D-Answers to Problem Sets	315
Index	327