

CONTENTS

Part I Simple Molecular Orbital Theory	
1. Introduction	3
2. Huckel Molecular Orbital (HMO) Theory	33
3. Matrix Formulation and Group theory	63
4. Variation of α and β	97
5. Heteroatoms	117
PART II Properties of Molecules	
6. Electron Densities and Bond Orders	139
7. Electron Affinity and Ionization Potential	173
8. Spectra	202
9. Resonance Energy	237
10. Aromaticity and the $4n+2$ Rule	256
PART III Reactions	
11. Aromatic Substitution	307
12. Carbonium Ions	357
13. Radicals	385
14. Carbanions	413
15. Four-Center Reactions	432
16. Advanced MO Methods	449
Appendix. Character Tables	459
Author Index	461
Subject Index	477