

CONTENTS

1. General and theoretical aspects of the carbonyl group	1
2. Carbonyl-forming oxidations	79
3. Formation of carbonyl groups in hydrolytic reactions	177
4. Formation of aldehydes and ketones from carboxylic acids and their derivatives	211
5. Formation of ketones and aldehydes by acylation, formylation and some related processes	233
6. Carbonyl syntheses through organometallics	303
7. Biological syntheses through organometallics	303
8. Chemical and physical methods of analysis	375
9. Basicity and physical compounds	421
10. Oxidation of aldehydes by transition metals	461
11. Reduction of carbonyl groups	507
12. Condensations leading to double bonds	567
13. Reactions of carbonyl groups with organometallic compounds	621
14. Decarbonylation	695
15. Rearrangements involving the carbonyl group	761
16. Photochemistry of ketones and aldehydes	823
17. Thioketones	917
Author index	961
Subject index	1011