

CONTENTS

PREFACE	ix
INTRODUCTION	1
CHAPTER 1. Introduction to Photochemistry	3
CHAPTER 2. Electronically Excited States	9
CHAPTER 3. Photophysical Processes	29
CHAPTER 4. Theoretical Concepts in Organic Photochemistry	47
CHAPTER 5. Photochemistry of Alkenes	57
CHAPTER 6. Photochemistry of Dienes and Polyenes	75
CHAPTER 7. Photochemistry of Aromatic Compounds	97
CHAPTER 8. Photochemistry of Carbonyl Compounds	117
CHAPTER 9. Photochemistry of Enones, Dienones, and Quinones	135
CHAPTER 10. Photochemistry of Carboxylic Acid Derivatives	155
CHAPTER 11. Photochemistry of Nitrogen-Containing Compounds	169
CHAPTER 12. Photochemistry of Halogen-Containing Compounds	183
CHAPTER 13. Photochemical Oxidations—Singlet Oxygen	191
CHAPTER 14. Preparative Techniques	213
CHAPTER 15. Factors Influencing the Course of Photochemical Reactions	229
CHAPTER 16. Applications of Organic Photochemistry	251
INDEX	271