

CONTENTS

Part 1 Bioluminescence	3
Part 2 Beetle bioluminescence	45
Part 3 Marine bacteria bioluminescence	75
Part 4 Cypridina (Vargula) Bioluminescence	113
Part 5 Chemiluminescence	135
Part 6 1,2-Dioxetanes	197
Part 7 Instrumentation & Devices	215
Part 8 Applications of luminescence	229
Part 9 Antioxidants, Reactive Oxygen Species & Phagocytosis	279
Part 10 Applications in Microbiology, Ecology, and Environmental & Food Testing	365
Part 11 Luminescent Immunoassays	459
Part 12 Luminescent Assays for Enzymes, Substrates, Inhibitors & Co-Factors	501
Part 13 Luminescent DNA Probe, Gene Expression & Reporter Gene Assays	519
Index	551