Contents

| Prefa | ace | ix |
|-------|---|-----|
| | CHEMISTRY AND BIOCHEMISTRY OF MICROBIAL-PLANT INTERACTIONS | |
| 1. | Microbes and Microbial Products as Herbicides: An Overview Robert E. Hoagland | 2 |
| 2. | Maculosin: A Host-Specific Phytotoxin from Alternaria alternata on Spotted Knapweed | 53 |
| 3. | Biochemistry of Non-Host-Selective Phytotoxins | 63 |
| 4. | Satellite Metabolites and Synthetic Derivatives of Abscisic Acid as Potential Microbial Product Herbicides Horace G. Cutler | 72 |
| 5. | Biochemical Responses of Plants to Pathogens | 87 |
| 6. | Phytoalexins and Their Elicitors | 114 |
| | PATHOGENS WITH POTENTIAL AS BIOHERBICIDES | |
| 7. | Pathogens with Potential for Weed Control | 132 |
| 8. | Biological Control of Aquatic Weeds with Plant Pathogens | 155 |

GENETIC ASPECTS OF PATHOGENS FOR WEED CONTROL

| 9. | Genetic Variability of Fungal Pathogens and Their Weed Hosts |
|-----|---|
| 10. | Biotechnological Approaches to Control of Weeds with Pathogens |
| | PHYLLOPLANE-PATHOGEN INTERACTIONS |
| 11. | Interactions of Pathogens on Plant Leaf Surfaces |
| 12. | Functional Significance of Adhesion to the Preparation of the Infection Court by Plant Pathogenic Fungi |
| | ASPECTS OF SOIL MICROBES IN WEED CONTROL |
| 13. | Herbicide—Pathogen Interactions and Mycoherbicides as Alternative Strategies for Weed Control |
| 14. | Synergistic Role of Soil Fungi in the Herbicidal Efficacy of Glyphosate |
| 15 | . Soilborne Fungi for Biological Control of Weeds |
| | FORMULATION AND COMMERCIALIZATION OF MICROBES AS BIOHERBICIDES |
| 16 | 5. Formulation and Application Technology for Microbial Weed Control |
| 17 | 7. Bioherbicide Technology: An Industrial Perspective |

| 18. Weed Control with Pathogens: Future Needs and Directions | 320 |
|--|-----|
| Author Index | 330 |
| Affiliation Index | 330 |
| Subject Index | 330 |