

# Contents

Preface, vii

1. Soil, 3
2. Soil Formation, 15
3. *Physical Properties of Soils*, 37
4. Soil Mechanics, 65
5. Soil Water, 81
6. Soil Organic Matter, 105
7. Soil Mineralogy, 127
8. Soil Chemistry, 145
9. Amending the Soil, 165
10. Fertilizers, 187
11. Nitrogen, 211
12. Phosphorus, 231
13. Potassium, 251
14. Calcium, Magnesium, and Sulfur, 269
15. The Micronutrients, 283
16. Variations in Plant Composition, 305
17. Soil Classification and Survey, 321
18. *Land Use and Soil Management*, 349
19. Water Management, 369
20. Soil Erosion and Its Control, 391
21. Soil Pollution, 419

Appendix: Units of Measurement, 437

Glossary, 441

Index, 469