THIRD EDITION

Introductory

SOIL SCIENCE

Laboratory Manual



Robert G. Palmer

Frederick R. Troeh

New York Oxford OXFORD UNIVERSITY PRESS 1995

Contents

- 1. Soil Survey Reports and Land Descriptions, 3
- 2. Soil Parent Materials, 8
- 3. Soil Texture, 14
- 4. Soil Structure, 25
- 5. Soil Water, 31
- 6. Soils and Landscapes, 42
- 7. Soil Profile Characteristics, 45
- 8. Soil Biology, 50
- 9. Soil Organic Matter, 55
- 10. Soil Chemistry, 60
- 11. Soil Testing and Soil Fertility, 68
- 12. Nitrogen and Soil Nitrates, 73
- 13. Soil Conservation, 77

Materials Required for Each Exercise, 85

Supplemental Reading, 91

Report Sheets, 93