## Contents

Preface, vii  
Dedication, ix  
In Memoriam: Richard F. Fisher, xi

1  Soil Foundations, 1  
2  Forest Soils Across Space and Time, 13  
3  Minerals in Forest Soils, 45  
4  Organic Matter in Forest Soils, 59  
5  Physics in Forest Soils: Soil Structure, Water, and Temperature, 83  
6  Life in Forest Soils, 109  
7  Chemistry of Soil Surfaces and Solutions, 139  
8  Biogeochemistry, 163  
9  Tree Species Influences, 205  
10 Characterizing Soils Across Space and Time, 237  
11 Soil Management: Harvesting, Site Preparation, Conversion and Drainage, 265  
12 Fire Influences, 293  
13 Nutrition Management, 319  
14 Managing Forest Soils for Carbon Sequestration, 351  
15 Evidence-Based Approaches, 373  

References, 393  
Index, 435