

About the Book

Soil is an important but often neglected element of the climate system. It is the second largest carbon store, or 'sink' after the oceans. Despite being a fundamental resource that supports all kinds of life on Earth, concerns related to soil are often not included as an important environmental issues. We hear about water or pollution, but rarely about soil pollution. Yet, soil plays a significant role in our everyday lives. From the food we eat and where we live to the natural functions and ecological services that provides.

This book is concerned with the current environmental issues and their remedies with soil which is mainly based on soil degradation, soil pollution and the effect of climate change on the soil. Adding xenobiotic chemicals or other alternation in the natural soil environment for agricultural, industrial or urban purposes result in a decline in the soil quality due to improper use to poor management, which is a serious environmental problem.

Contents:

Part I: Soil Science

1. Soil formation
2. Soil Minerology
3. Soil taxonomy and classification
4. Soil quality
5. Soil analytical techniques

Part II: Soil Physics

6. Physical properties of soils
7. Soil structure
8. Soil Tillage
9. Soil water
10. Soil air and temperature
11. Soil Erosion

Part III: Soil Chemistry

12. Concepts of soil chemistry
13. Chemical composition of soil
14. Ion Exchange
15. Ph. Salinity and sodality
16. Chemistry of soil nutrient

Part IV: Soil Biology

17. Micro biota
18. Soil Fauna

19. *Organism Interactions with soil processes*
20. *Impact of pesticides and fertilizers on soil microbial diversity*

Part V: Environment and Soil Quality

21. *Environmental impacts*
22. *Effect of climate change on soil ecosystem*
23. *Soil carbon sequestration*
24. *Soil fertility and nutrient management*
25. *Soil pollution*

