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Soil Systems in the Global South -- Chapter 12. Concepts and practices for managing soil health -- Chapter 13. Diagnosing Soil Health Through Ecological Risk Assessment in the Global South -- Chapter 14. Enhancing Soil Carbon Sequestration in the Global South – The Roles of Microbes and Biological Matter -- Chapter 15. Alternative Land Management Strategies and Their Impacts on Soil Conservation -- Chapter 16. Methods for Soil-Borne Disease Regulation from a Systems Perspective in Global South -- Chapter 17. Soil Conservation Approaches, Tools, and Techniques -- Chapter 18. Sustainable Alternative Land Management Strategies and Their Impacts on the Soil Arthropod Diversity -- Chapter 19. Climate Smart Soil Utilization and Management Systems in the Global South -- Chapter 20. Restoration of Soil Environment for Sustained Environmental and Public Health Security in the Global South -- Chapter 21. Advances in Soil Systems Remediation: Lessons from the Global North -- Chapter 22. Nutrient Budgets for Sustained Crop Production in African Soils: Evidence from Potato-Grown Soils in Tanzania -- Chapter 23. Enhancing Soil Health in Brazilian Agroecosystems: Indicators and Management Practices -- Chapter 24. Effects of Urbanization on Soil Quality in the Global South: The Case of Offa, Northcentral Nigeria -- Chapter 25. Soil System Status, Threats, Utilization Pattern and Sustainable Management Strategies in the Global South: Overview of the Agriculture soils in Maghreb Countries -- Chapter 26. Soil System Status, Threats, Utilization Pattern and Sustainable Management Strategies in the Global South: African Perspectives.

Sommario/riassunto

With a focus on soil systems (status, properties, functionality, diagnosis, roles, assessment, conservation, knowledge, practices, productivity, management, policies, climate, biodiversity, etc.), this book addresses gaps pertinent to promoting sustainable human-environment in the Global South and beyond. The soil system is a complex and dynamic part of the lithosphere with flows, inputs, storage, and output that connects it with other Earth systems. It is a living unit whose physical, chemical, and biological characteristics are dependent on the process of its formation, parent material, age, organic and inorganic constituent, and climate and relief. From a systems standpoint, balancing the relationship between utilization and management will help maintain soil health and the provision of ecosystem services. A healthy soil system is capable of functioning as a living unit to support other life and life processes and contribute to sustainable development in the Global South. This book is of interest and useful to soil, biological and agricultural scientists, trainees and trainers, agricultural institutes, soil and food systems specialists, biodiversity and environmental managers, practitioners, activists, and students (especially undergraduates and postgraduates) in the Global South and beyond.
