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Possibilities and Limitations -- Chapter 11. Eco- friendly Nitrogen Fertilizers for Sustainable Agriculture -- Chapter 12. Scope of Natural Source of Potassium in Sustainable Agriculture -- Chapter 13. Changes in Soil-Plant-Microbes Interactions in Anticipated Climatic Change Conditions -- Chapter 14. Adaptive Soil Management-A Tool For Plant Fitness in Stressful Environment Through Microbial Integrity -- Chapter 15. Impact of Agricultural Management Practices on Mycorrhizal Functioning and Soil Micro-Biological Parameters Under Soybean-Based Cropping Systems -- Chapter 16. Bioremediation of Contaminated Soils: An Overview -- Chapter 17. Bioremediation of Soils Contaminated With Ni and Cd-An Overview -- Chapter 18. Urban Soil's Functions: Monitoring, Assessment and Management -- Part 3. Regional and Global Initiatives For Soil Resource Management -- Chapter 19. Enhancing Resource Use Efficiency Through Soil Management for Improving Livelihoods -- Chapter 20. The Relevance of Traditional Ecological Knowledge in Agricultural Sustainability of The Semi Arid Tropics -- Chapter 21. The Effects of Forest Fire on Soil Organic Matter and Nutrients in Boreal Forests of North America: A Review -- Chapter 22. Climate Mediated Changes in Permafrost and Their Effects on Natural and Human Environments -- Chapter 23. Integrated Natural resource management in India through Participatory Integrated Watershed Management -- Chapter 24. Monitoring and Assessing Anthropogenic Influence on Soil's Health in Urban Forests (The Case From Moscow City) -- Chapter 25. Impacts Assessment of Municipal Solid Squander Dumping in Riparian Corridor Using Multivariate Statistical Techniques . .

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#### Sommario/riassunto

The book focuses in detail on learning and adapting through partnerships between managers, scientists, and other stake-holders who learn together how to create and maintain sustainable resource systems. As natural areas shrink and fragment, our ability to sustain economic growth and safeguard biological diversity and ecological integrity is increasingly being put to the test. In attempting to meet this unprecedented challenge, adaptive management is becoming a viable alternative for broader application. Adaptive management is an iterative decision-making process which is both operationally and conceptually simple and which incorporates users to acknowledge and account for uncertainty, and sustain an operating environment that promotes its reduction through careful planning, evaluation, and learning until the desired results are achieved. This multifaceted approach requires clearly defined management objectives to guide decisions about what actions to take, and explicit assumptions about expected outcomes to compare against actual outcomes. In this edited book, we address the issue by pursuing a holistic and systematic approach that utilizes natural resources to reap sustainable environmental, economic and social benefits for adap-tive management, helping to ensure that relationships between land, water and plants are managed in ways that mimic nature.

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