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Sinopsis

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!Challenges some of the dominant paradigms in the agro-environmental sciences

!Presents innovative practical approaches to agroecosystem management

!Integrates biophysical and social science to address research and management needs for agroecosystems

!Provides groundbreaking syntheses on the ecological basis of soil fertility and organic matter interactions

Summary

Emphasizes Centrality of the Ecosystem Perspective

Sustainable management of agroecosystems in the 21st century faces unprecedented challenges. Protecting the environment while feeding a burgeoning population that could reach nine billion by mid-century, preserving the world's biodiversity, and sustaining agriculture in an increasingly urban world is a massive undertaking.

Avoiding simple prescriptions for the application of ecological principles to agriculture, Sustainable Agroecosystem Management: Integrating Ecology, Economics, and Society emphasizes the continued centrality of the ecosystem perspective, and the need to integrate ecological, economic, and social considerations in agroecosystem science and management.

Truly Interdisciplinary in Scope

With contributions from distinguished leaders in the field of sustainable agriculture, this authoritative book first delineates the present and future challenges agroecosystems face. It then reviews the important contributions made by Dr. Ben Stinner, a pioneer in the field of agroecosystem ecology. Providing historical background of attempts to connect the ecological and agricultural sciences, this standard-setting resource highlights recent efforts to integrate natural and social science perspectives. It also examines the challenges for developing integrated

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approaches to agroecosystem management.

Through a variety of case studies with global applications, the text makes it abundantly clear that purely technological approaches are insufficient for solving the food systems problems of the future. It explores practical innovative strategies, policies, and research needs necessary to develop management approaches that emphasize whole system productivity, diversify agricultural operations, and sustain multiple functions, including ecological integrity.