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Nota di contenuto	- Introduction -- Evolution of Agroforestry as a Modern Science -- Traditional Agroforestry Systems. -Utilizing Geospatial Technologies for Agroforestry Research and Development in India. -Monitoring and Assessment of Trees outside Forests (TOF) -- Agroforestry Practices in Temperate Regions of the World -- Agroforestry Systems in Northern Spain: The Role of Land Management and Socio-economy in the Dynamics of Landscapes -- Agroforestry Systems as Adaptation Measures for Sustainable Livelihoods and Socio-Economic Development in the Sikkim Himalaya -- Horticulture-based Agroforestry Systems for Improved Environmental Quality and Nutritional Security in Indian Temperate Region -- Alley Cropping with Short Rotation Coppices in the Temperate Region – A Land Use Strategy for Optimizing Microclimate, Soil Organic Carbon and Ecosystem Service Provision of Agricultural Landscapes -- Soil Organic Carbon Stocks under Different Agroforestry Systems of North-Eastern Regions of India -- Silvopastoral Systems as a Tool for Territorial Sustainability and Biodiversity -- Potentials of Poplar and Eucalyptus in Indian Agroforestry for Revolutionary Enhancement of Farm Productivity --

Biodiversity Conservation in Dryland Parkland Agroforestry Practice: A Review -- Agroforestry for Increasing Farm Productivity in Water-stressed Ecologies -- Agroforestry for Rehabilitation and Sustenance of Saline Ecologies -- Prospects of Agroforestry for the Marginal Environments: Evidences from the United Arab Emirates -- Enhancing Fodder Productivity on Salt-affected Lands in Arid and Semi-arid India -- Performance of Some Agroforestry Trees for Reclamation of Salt-affected Soils in the Lowlands in Ethiopia -- Home Gardens: Drops to Sustainability -- Installation of Silvopastoral Systems with Poplar in the Delta of the Paraná River, Argentina -- Cut-and-carry for Sustaining Productivity and Carbon Sequestration in Agroforestry Systems: Coffee-Leucaena Example -- Multistrata Systems - Potentials and Challenges of Cocoa Based Agroforests in the Humid Tropics -- Evolution of Acacia koa on the Hawaiian Islands -- Microbial Biodiversity in Agroforestry Systems -- Soil Microarthropods: Biodiversity and Role in Soil Amelioration in Grassland and Agroforestry Ecosystems -- Role of Entomology in Sustaining Agroforestry Productivity -- Urban and Peri-urban Agroforestry as Multifunctional Land Use -- Mitigation and Adaptation Strategies to Climate Change through Agroforestry Practices in the Tropics -- Profiling Carbon Storage/Stock of Cocoa Agroforests in Forest Landscape of Southern Cameroon -- Silvopasture Economics in the Southeast and Pacific Northwest United States -- Bioenergy in India: Status, Policies and Prospects -- Pollinator Services in Coffee Agroforests of the Western Ghats -- Regulating Ecosystem Services Delivered in Agroforestry Systems -- Challenges and Strategies to Address Food and Livelihood Security in Agroforestry -- Socio-economic and Policy Considerations in the Adoption of Agroforestry Systems: An Ecosystem-based Adaptive Governance Approach.

Sommario/riassunto

Agroforestry (AF) is a dynamic, ecologically based, natural resources management system that, by integrating trees on farms, ranches, and in other landscapes, diversifies and increases production and promotes social, economic, and environmental benefits for land users. Further, it is receiving increasing attention as a sustainable land-management option worldwide because of its ecological, economic, and social attributes. Advances have been achieved by building on past research accomplishments and expanding AF’s stakeholder base, which now includes private/public partnerships, communities, ecologists, farmers, indigenous peoples, and policymakers in both temperate and tropical countries. AF has now been recognized as a valuable problem-solving approach to ensuring food security and rebuilding resilient rural environments. Recent studies have shown that more than 1 billion hectares of agricultural land have more than 10% tree cover. Of this area, 160 million hectares have more than 50% tree cover. Agricultural ecosystems can be further improved through AF to achieve environmental restoration, greater farm productivity, and key ecological services, including climate change mitigation and adaptation for improved rural livelihood. In fact, it is largely considered synonymous with climate smart agriculture and a remedy for many modern environmental challenges. Consequently, AF’s knowledge base is being expanded at a rapid rate, as illustrated by the increasing number and quality of scientific publications on various forms and different aspects of AF. This book offers state-of-the-art information on the fundamental concepts and history of AF and its evolution as a science, presenting a wealth of advanced research results and evaluations relating to different aspects of AF. Accordingly, it will be useful for a broad readership, including students, foresters, farmers, local communities, indigenous peoples, civil society institutions, media, policymakers and the general public.