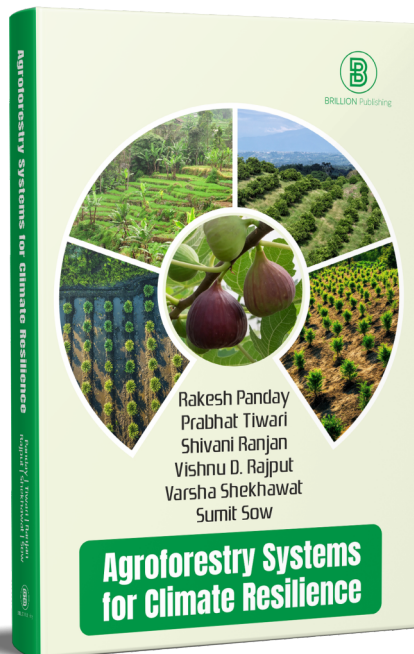




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Agroforestry Systems for Climate Resilience

Agroforestry Systems for Climate Resilience is a comprehensive volume that explores the transformative potential of agroforestry as a climate-resilient and sustainable land-use system. The book presents an integrated perspective on how trees, agricultural crops, and livestock can be synergistically combined to enhance productivity while restoring ecological balance. Structured to bridge theory, research, and field-level practice, it covers key ecological principles such as nutrient cycling, soil carbon dynamics, biodiversity enhancement, and microclimate regulation. The volume highlights the role of agroforestry in climate change mitigation through carbon sequestration and in adaptation by improving resilience against droughts, floods, and temperature extremes. It examines diverse systems including agrisilvicultural, silvopastoral, agrosilvopastoral, and forest farming models, supported by region-specific case studies and evidence-based insights. Special emphasis is placed on sustainable intensification, restoration of degraded lands, and livelihood diversification for smallholder farmers. Economic analysis, value chain development, and policy frameworks are discussed to demonstrate scaling potential. The book also recognizes the importance of indigenous knowledge alongside modern scientific advancements. Figures, tables, and a glossary are included to enhance understanding. The content is aligned with the 6th Deans' Committee Recommendations, making it highly suitable for students, teachers, and researchers in agroforestry.

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