

Patterns and Processes in Forest Landscapes

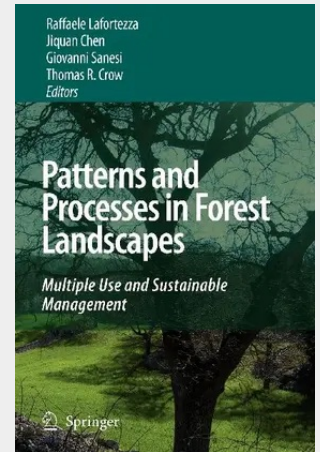
Multiple Use and Sustainable Management

Increasing evidence suggests that the composition and spatial configuration – the pattern – of forest landscapes affect many ecological processes, including the movement and persistence of particular species, the susceptibility and spread of disturbances such as fires or pest outbreaks, and the redistribution of matter and nutrients. Understanding these issues is key to the successful management of complex, multifunctional forest landscapes, and landscape ecology, based on a foundation of island bio-geography and meta-population dynamic theories, provides the rationale to deal with this pattern-to-process interaction at different spatial and temporal scales.

This carefully edited volume represents a stimulating addition to the international literature on landscape ecology and resource management. It provides key insights into some of the applicable landscape ecological theories that underlie forest management, with a specific focus on how forest management can benefit from landscape ecology, and how landscape ecology can be advanced by tackling challenging problems in forest (landscape) management. It also presents a series of case studies from Europe, Asia, North America, Africa and Australia exploring the issues of disturbance, diversity, management, and scale, and with a specific focus on how human intervention affects forest landscapes and, in turn, how landscapes influence humans and their culture.

An important reference for advanced students and researchers in landscape ecology, conservation biology, forest ecology, natural resource management and ecology across multiple scales, the book will also appeal to researchers and practitioners in reserve design, ecological restoration, forest management, landscape planning and landscape architecture.

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