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Managing Forests as Complex Adaptive Systems

Dave Coates - Shifting Thinking - Complexity Science as a New Basis for Managing Forests

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'Enhanced throughout with bibliographic references, tables and figures, and a comprehensive index, Managing Forests as Complex Adaptive Systems: Building Resilience to the Challenge of Global Change offers a seminal body of work and is highly recommended for professional, governmental, NGO, and academic library Environmental Studies and Forest Management Studies reference collections and supplemental reading lists.'

Managing Forests as Complex Adaptive Systems: Building ...

Messier, C. (Ed.), Puettmann, K. (Ed.), Coates, K. (Ed.). (2013). Managing Forests as Complex Adaptive Systems. London: Routledge, <https://doi.org/10.4324/9780203122808>. COPY. This book links the emerging concepts of complexity, complex adaptive system (CAS) and resilience to forest ecology and management. It explores how these concepts can be applied in various forest biomes of the world with their different ecological, economic and social settings, and history.

Managing Forests as Complex Adaptive Systems | Taylor ...

In contrast, managing forests as complex adaptive system is a bottom-up approach. Besides the provision of ecosystem services, management activities also consider the adaptive capacity, i.e., the ability of ecosystem to respond to changes. The adaptive or transformative capacity of ecosystem is more and more important in a world that is changing faster and faster and where foresters have less ability to “fix” things, e.g., due to limited budgets, more constraints on pesticides, etc.

Teaching complex adaptive system science to manage forest ...

Managing Forests as Complex Adaptive Systems ... Keynote: Complex Adaptive Systems - Duration: 30:04. Rishidot Research 12,668 views. 30:04 "You Will Never Be Poor Again" | START DOING THIS TODAY

Managing Forests as Complex Adaptive Systems

Classical forest management has worked out a series of forest regulation methods with the aim of obtaining the “fully regulated” forest. Considering the forest as a complex biological adaptive system means overcoming the reductionist and mechanist paradigm, and entails a shift towards a systemic approach in silviculture and forest management.

MANAGING FORESTS AS COMPLEX ADAPTIVE SYSTEMS: AN ISSUE OF ...

Christian Messier Klaus Puettmann Managing forests as complex adaptive systems: From theory to practice Seminario Facoltà di Agraria - Università di Firenze - 31 maggio 2012

Managing forests as complex adaptive systems: From theory ...

management of forests for a wide variety of ecosystem goods and services. One of these approaches is based on the science of complex systems. Viewing forests as Complex Adaptive System (or CAS) is an emerging paradigm based on development of systems theory in other fields, such as physic, medicine, and socio-economics.

FORESTS AS COMPLEX ADAPTIVE SYSTEMS: IMPLICATIONS FOR ...

This book links the emerging concepts of complexity, complex adaptive system (CAS) and resilience to forest ecology and management. It explores how these concepts can be applied in various forest biomes of the world with their different ecological, economic and social settings, and history. Individual chapters stress different elements of these concepts based on the specific setting and ...

Managing Forests as Complex Adaptive Systems, Building ...

cial, climatic, and environmental changes. We argue here that viewing forest ecosystems as complex adaptive system provides a better alternative for both production- and conservation-oriented forests and forestry. We propose a set of broad principles and changes to increase the adaptive capacity of forests in the face of future uncertainties.

From Management to Stewardship: Viewing Forests As Complex ...

Forests provide valuable ecosystem services (e.g. timber, nutrient cycling, air purification), but their ability to maintain these services under future climate conditions is uncertain. Yet, examining and evaluating adaptive forest management strategies to sustain these ecosystems can ...

Assessing Adaptive Forest Management Strategies for Future ...

Forests are complex adaptive systems in which properties at higher levels emerge from localized networks of many entities interacting at lower levels, allowing the development of multiple ecological pathways and processes.

Ecology and Society: Nurturing resilient forest ...

The interactions and interconnectedness of the parts and processes in forest ecosystems underlie their nature as complex adaptive systems. The parts – the organisms, species, guilds – interact in networks across different genetic, trophic, spatial and temporal scales and the relationships and feedbacks across these various scales create structure, cohesion and emergent properties (Levin, 2005; Whitham et al., 2006).

Managing Forests as Complex Adaptive ... - Taylor & Francis

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Get this from a library! Managing forests as complex adaptive systems : building resilience to the challenge of global change. [Christian C Messier; Klaus J Puettmann; K Dave Coates;] -- "This book links the emerging concepts of complexity, complex adaptive system (CAS) and resilience to forest ecology and management. It explores how these concepts can be applied in various forest ...

Managing forests as complex adaptive systems : building ...

Managing Forests as Complex Adaptive Systems Building resilience to the challenge of global change Edited by Christian Messier, Klaus J. Puettmann and K. David Coates R EfnflSBBiii LONDON AND NEW YORK from Routledge

Managing Forests as Complex Adaptive Systems

As the movement to create healthy forests moves forward, it promises to become a template for the use of new "complex systems" tools to address chronic problems, such healthcare, education and economic policy. Managing Forests as Complex Adaptive system is a remarkably readable book.

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