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| Soggetti | Environmental management Forests and forestry Water Hydrology Conservation biology Ecology Soil science Biotic communities Environmental Management Forestry Conservation Biology Soil Science Ecosystems |
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| Nota di contenuto | Chapter 1. Innovative Ecoevaluation System for Tropical Peatlands -- Chapter 2. Integrated Eco-evaluation Practices of Industrial Forest Plantation in Peatland of West Kalimantan, Indonesia -- Chapter 3. Net Ecosystem Exchange (NEE) Mapping in Tropical Peatland -- Chapter 4. Carbon accounting system in tropical peatlands -- Chapter 5. An Innovative Restoration Technology for Tropical Peatlands: AeroHydro Culture (AHC) -- Chapter 6. Function of Humic Acid -- Chapter 7. Camera traps to survey mammals in peatland -- Chapter 8. SESAME System -- Chapter 9. Sensing, Monitoring and Data Collection System (sPOTEKA-NET) -- Chapter 10. The use of a compact fiber-optic |

spectrometer to measure atmospheric carbon dioxide in a tropical peatland -- Chapter 11. Appraisal of LiDAR measurements for monitoring tropical peatlands -- Chapter 12. Topography Monitoring by Unmanned Aerial Systems (UASs) -- Chapter 13. Multifootprint Observation Lidar and Imager (MOLI) Mission for Peatland Observations.

Sommario/riassunto

This book focuses on eco-evaluation system monitoring and sensing, carbon-water modeling, mapping, and disaster prediction. It is the 3rd book on tropical peatland issues, following 1st "Tropical Peatland Ecosystem" and 2nd "Tropical Peatland Eco-management" publications. Tropical peatland is also a wetland, mangrove, and rainforest. With this nature, two major key elements of tropical peatland are water and forest. This book introduces the relationship and interaction among water, oxygen, and nutrients as well as aspects of the forest as the driving force of carbon stock and the carbon cycle. Eco-evaluation system is key to conserving, managing, and restoring tropical peatlands, however comprehensive system for Eco-evaluation in the Tropics is not yet established. This book reviews and proposes Eco-evaluation methods in the Tropics Ecosystem, focusing mainly on the peatland ecosystem and others, covering Social Capital such as Credit, Bonds, National Accounting, etc. .
