



## Forest Development

By Dohrenbusch, Achim / Bartsch, Norbert

Book Condition: New. Publisher/Verlag: Springer, Berlin | Succession, Environmental Stress and Forest Management Case Studies | Forest ecosystems are characterized by a steady change in their structure of function. Natural developments are more and more radically disturbed by human impact. Air pollution leads to soil acidification, change in nutrient budget and to a decreasing vitality of the trees. Forest management can prevent natural succession and often leads to less stable forests. In this book, selected results of 10 years of interdisciplinary ecosystem research are presented. Not only growth and physiological reactions on environmental stress, but also natural succession processes are described and analysed. Besides the description of forest development processes, based on longterm experiments and observation, conclusions for practical forest management are given. | Content.- 1 Forest succession and water resources: soil hydrology and ecosystem water turnover in early, mid and late stages of a 300-yr-long chronosequence on sandy soil.- 1.1 Introduction.- 1.2 Methods.- 1.2.1 Study sites.- 1.2.2 Hydrological methods.- 1.3 Water resources during forest succession.- 1.4 Changes in soil hydrology.- 1.4.1 Soil physical properties.- 1.4.2 Soil water content.- 1.4.3 Soil matric potential.- 1.5 Changes in ecosystem water turnover.- 1.5.1 Canopy interception, throughfall and stemflow.- 1.5.2 Stand evapotranspiration.- 1.5.3 Water...



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