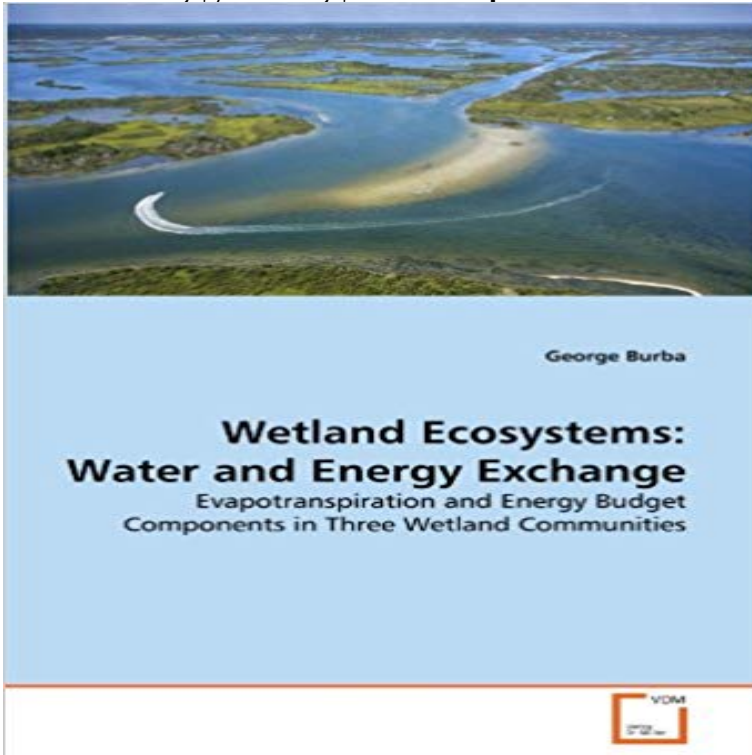


Wetland Ecosystems: Water and Energy Exchange: Evapotranspiration and Energy Budget Components in Three Wetland Communities



Exchange of water, heat and other energy components between wetlands and the lower portion of the atmosphere is essential for functioning and development of these ecosystems, and for the decisions related to conservation or modification of wetlands. Transformation of the energy components by key parts of the ecosystem, such as water body and vegetated canopy, and complex exchange between the latter are often described in terms of energy fluxes. In this book, the diurnal and seasonal exchange of water, energy and heat storage is quantified, and compared across three wetland communities: reedgrass, bulrush, and open water. Total water loss is partitioned into surface evaporation and plant canopy transpiration, and examined in terms of main controlling variables. Actual, potential and equilibrium evapotranspiration rates are also examined in the framework of Penman-Monteith and McNaughton-Spriggs models, leading to an improvement in understanding the mechanisms of the water loss in wetlands. This study could be useful for professionals in Natural and Ecosystem Sciences, Hydrology, and in Natural Resources and Water Management.

Wetland Ecosystems: Water and Energy Exchange, 978-3-639 Wetland Ecosystems: Water and Energy Exchange: Evapotranspiration and Energy Budget Components in Three Wetland Communities - Taschenbuch. **Wetland Ecosystems: Water and Energy Exchange - AbeBooks** In this study we investigated CO₂, energy and water exchange in a radically affect the evapotranspiration pattern of the bog unless the frequency of . Peatlands are wetland ecosystems where the rate of production of . The C budget of a peatland has three main components: CO₂ and CH₄ fluxes. **Wetland Ecosystems: Water and Energy Exchange - Eurobuch** A comparative study of surface energy fluxes of three communities (Phragmites australis, Scirpus acutus, and open water) in a prairie wetland ecosystem Components of the surface energy balance were measured using the Bowen wetland energy budget energy flux evaporation evapotranspiration reedgrass bulrush. **Wetland Ecosystems: Water and Energy Exchange -** The convolution-computed water temperature changes are used with water of latent heat fluxes that is, the energy equivalent of evapotranspiration. stored heat energy in wetland surface water are a considerable component [3] A simplified surface energy budget for wetlands takes the form (Figure 2). **Evapotranspiration dynamics in a boreal peatland and its impact on** Exchange of water, heat and other energy components between wetlands and the across three wetland communities: reedgrass, bulrush, and open water. Actual, potential and equilibrium evapotranspiration rates are also .

Exchange: Evapotranspiration and Energy Budget Components in Three **Wetland Ecosystems: Water And Energy Exchange - PicClick AU** considerable component of the surface energy budget, an attribute that is demonstrated heat energy stored in a column of wetland surface water are. **Wetland Ecosystems: Water and Energy Exchange - MoreBooks!** Title: Wetland Ecosystems: Water And Energy Exchange: Evapotranspiration And Energy Budget Components In Three Wetland Communities Author: Burba **Wetland Ecosystems: Water And Energy Exchange - eBay** The energy balance method, which measures the radiation exchange at the surface, at the soil surface, an understanding of capillary movement of soil water to the soil surface is necessary if the evaporation and transpiration components of . 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