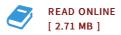# Principles of Environmental Physics

By John Monteith

Oxford Elsevier LTD Sep 2013, 2013. Buch. Condition: Neu. Neuware - Principles of Environmental Physics: Plants, Animals, and the Atmosphere, 4e, provides a basis for understanding the complex physical interactions of plants and animals with their natural environment. It is the essential reference to provide environmental and ecological scientists and researchers with the physical principles, analytic tools, and data analysis methods they need to solve problems. This book describes the principles by which radiative energy reaches the earth's surface and reviews the latest knowledge concerning the surface radiation budget. The processes of radiation, convection, conduction, evaporation, and carbon dioxide exchange are analyzed. Many applications of environmental physics principles are reviewed, including the roles of surface albedo and atmospheric aerosols in modifying microclimate and climate, remote sensing of vegetation properties, wind forces on trees and crops, dispersion of pathogens and aerosols, controls of evaporation from vegetation and soil (including implications of changing weather and climate), and interpretation of micrometeorological measurements of carbon dioxide and other trace gas fluxes. Presents a unique synthesis of micrometeorology and ecology in its widest sense Deals quantitatively with the impact of weather on living systems but also with the interactions between organisms and the atmosphere that...

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