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Introduction to Plant Physiology

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Wiley, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Chapter 1: Plant Cells and Water.1.1 Water has Unique Physical and Chemical Properties.1.2 The Thermal Properties of Water are Biologically Important.1.3 Water is the Universal Solvent.1.4 Polarity of Water Molecules Results in Cohesion and Adhesion.1.5 Water Movement may be Governed by Diffusion or by Bulk Flow.1.6 Osmosis is the Diffusion of Water Across a Selectively Permeable Membrane.1.7 Hydrostatic Pressure and Osmotic Pressure are Two Components of Water Potential.1.8 Water Potential is the Sum of its Component Potentials.1.9 Dynamic Flux of H₂O is Associated with Changes in Water Potential.1.10 Aquaporins Facilitate the Cellular Movement of Water.1.11 Two-Component Sensing/Signalling Systems are Involved in Osmoregulation. Summary. Chapter review. Further reading. Chapter 2: Whole Plant Water Relations.2.1 Transpiration is Driven by Differences in Vapor Pressure.2.2 The Driving Force of Transpiration is Differences in Vapor Pressure.2.3 The Rate of Transpiration is Influenced by Environmental Factors.2.4 Water Conduction Occurs via Tracheary Elements.2.5 The Ascent of Xylem SAP is Explained by Combining Transpiration with the Cohesive Forces of Water.2.6 Water Loss due to Transpiration must be Replenished.2.7 Roots Absorb and Transport Water.2.8 The Permeability of Roots to Water Varies.2.9 radial Movement of Water...


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