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Physicochemical and Environmental Plant Physiology

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The functioning of all living systems obeys the laws of physics in fundamental ways. This is true for all physiological processes that occur inside cells, tissues, organs, and organisms. The new edition of Park Nobel's classic text has been revised in an unprecedented fashion, while still remaining user-friendly and clearly presented. Certain to maintain its leading role in teaching general and comparative physiological principles, **Physicochemical and Environmental Plant Physiology** now establishes a new standard of excellence in teaching advanced physiology.
The book covers water relations and ion transport for plant cells, including diffusion, chemical potential gradients, and solute movement in and out of plant cells. It also presents the interconnection of various energy forms, such as light, chlorophyll and accessory photosynthesis pigments, and ATP and NADPH. Additionally, the book describes the forms in which energy and matter enter and leave a plant, for example: energy budget analysis, water vapor and carbon dioxide, and water movement from soil to plant to atmosphere.

Key Features
* Over four hundred fifty updated references
* Thorough text revisions intended to improve clarity of presentation
* Enhanced coverage of bioenergetics, and gas and water fluxes
* Thoroughly revised figures
* Revised calculations in all chapters
* Reformatted problems with solutions
* New information on root properties and especially global climate change
* Established and classic equations presented in an easy-to-refer-to list
* Appendices with conversion factors and constants

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