Vascular Transport in Plants. Physiological Ecology

Description: Vascular Transport in Plants provides an up-to-date synthesis of new research on the biology of long distance transport processes in plants. It will be a valuable resource and reference for researchers and graduate level students in physiology, molecular biology, physiology, ecology, ecological physiology, development, and all applied disciplines related to agriculture, horticulture, forestry and biotechnology. The book considers long-distance transport from the perspective of molecular level processes to whole plant function, allowing readers to integrate information relating to vascular transport across multiple scales. The book is unique in presenting xylem and phloem transport processes in plants together in a comparative style that emphasizes the important interactions between these two parallel transport systems.

Includes 105 exceptional figures
Discusses xylem and phloem transport in a single volume, highlighting their interactions
Syntheses of structure, function and biology of vascular transport by leading authorities
Poses unsolved questions and stimulates future research
Provides a new conceptual framework for vascular function in plants

Contents:
- Perspectives on the Biophysics of Xylem Transport
- Physiochemical Components in Phloem Transport
- Pathways and Mechanisms of Phloem Loading
- Stomatal Control and Water Transport in the Xylem
- Leaf Hydraulics and Its Implications in Plant Structure and Function
- Interaction of Phloem and Xylem During Phloem Loading
- Functional Symplasmic Roles for Thin- and Thick-Walled Sieve Tubes in Monocotyledons?
- Water Flow in Roots: Structural and Regulatory Features
- Roots as an Integrated Part of the Translocation Pathway
- Growth and Water Transport in Fleshy Fruit
- The Stem Apoplast: A Potential Communication Channel in Plant Growth Regulation
- Role of Potassium in Long Distance Transport in Plants
- Coordination Between Shoots and Roots
- Sweeping Water, Oozing Carbon: Long Distance Transport and Patterns of Rhizosphere Resource Exchange From Cambium to Early Cell Differentiation within the Secondary Vascular System
- Structure Function Relationships in Sapwood Water Transport and Storage
- Efficiency vs. Safety Trade-offs for Water Conduction in Angiosperm Vessels vs. Gymnosperm Tracheids
- Vascular Constraints and Long-Distance Transport in Dicots
- Embolism Repair and Long Distance Water Transport

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