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Martin H. Zimmermann is the author of Formation of Wood in Forest Trees (0.0 avg rating, 0 ratings, 0 reviews, published 2013), Trees (0.0 avg rating, 0 ...

Martin H. Zimmermann (Author of Xylem Structure and the ...

M. H. Zimmermann Xylem is an unusual tissue. The conduits (vessels or tracheids) are alive and filled with water and cellular organelles from the time they divide through growth and...

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Cavitation in plants is caused by development of air bubbles, which is related to their equilibrium and development. There is a univariate cubic equation for bubble balance. New root formula of this kind of equation was proposed by Shenjin Fan, which is simpler than the Caldan's. Using Shenjin formulas and taking water pressure P1 as an independent variable, this paper gives the exact ...

Analysis of Cavitation Processes in Xylem

Rev. ed. of: Xylem structure and the ascent of sap / by M.H. Zimmermann. 1983. Related Work Zimmermann, Martin Huldrych, 1926- Xylem structure and the ascent of sap. ISBN 3540433546 (alk. paper) 9783540433545 (alk. paper)

Xylem structure and the ascent of sap In SearchWorks catalog

Melvin T. Tyree; Martin H. Zimmermann (2003). Xylem Structure and the Ascent of Sap (2nd ed.). Springer. ISBN 978-3-540-43354-5. recent update of the classic book on xylem transport by the late Martin Zimmermann

Xylem - Wikipedia

Xylem structure and the ascent of sap. [Melvin T Tyree; Martin Huldrych Zimmermann] -- The first edition of this book was the first to provide an integrated description of sap ascension from an anatomical and functional point of view.

Xylem structure and the ascent of sap (Book, 2002 ...

Widening of xylem conduits in a conifer tree depends on the longer time of cell expansion downwards along the stem. Journal of Experimental Botany 63: 837-845 [PMC free article] Bekker M. F., Taylor A. H. 2001. Gradient analysis of fire regimes in montane forests of the southern Cascade Range, Thousand Lakes Wilderness, California, USA.

Climatic influences on wood anatomy and tree-ring features ...

The physics behind the movement of an air-water interface through a porous membrane and the resulting bubble formation is explained in Box 1.Because pore radii in pit membranes are variable in shape and size, ranging between 2 and 200 nm, and usually less than 100 nm 11, 12, 28, bubbles that move through these pores are nanobubbles.The pressure difference required to force a meniscus through ...

Nanobubbles: a new paradigm for air-seeding in xylem ...

Xylem vessels, composed of dead cells, are well known for their passive role in water transport (), and the possibility that these tubes might be capable of rapid flow control has been overlooked.The prevailing view among plant biologists is that xylem conduits have two hydraulic states: They either transport water at a constant resistance or are blocked by embolism (2, 4).