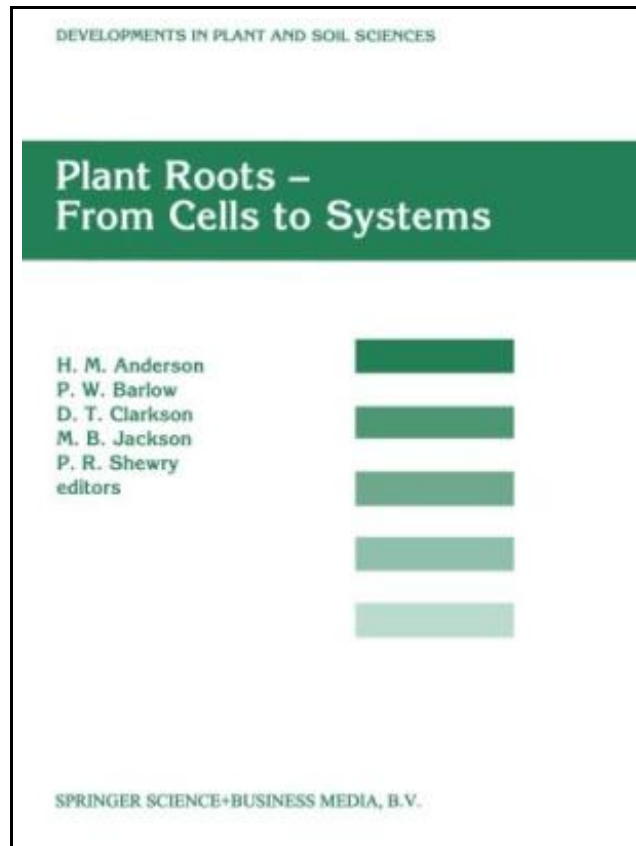


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PLANT ROOTS - FROM CELLS TO SYSTEMS



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Book Condition: New. Publisher/Verlag: Springer Netherlands | Proceedings of the 14th Long Ashton International Symposium Plant Roots - From Cells to Systems, held in Bristol, U.K., 13-15 September 1995 | Proceedings of the 14th Long Ashton International Symposium: Plant Roots - From Cells to Systems held in Bristol, UK, 13-15 September 1995 | tests the suitability of using mannitol as an osmoticum during experiments. Pressure probe and SiCSA techniques The expanding maize root tip Use of the cell pressure probe (Htiskens et al., 1978) and single-cell sampling and analysis (SiCSA; Tomos Individual cells expand to many times their original length as they progress from the meristem to the mature zone of root tips. The expansion first accelerates and then decelerates, stopping at the proximal end of the expansion zone (Pritchard, 1994). This is turgor pressure, and hence turgor adjustment processes, accomplished at constant cell turgor (P) and with a loss of water directly. In some cases, such as the motor cells of pulsed osmotic (1978) pressure in the order of 15% (wheat: van der Horst or in the stomatal complex, turgor varies between Tomos et al., 1989; maize: Pritchard et al., 1993; adjacent cells - making analysis at single cell resolution Pritchard and Tomos, 1993). The constant turgor condition is essential for understanding mechanisms (Irving et al. 1994) that changes in cell-wall mechanical properties, al., 1994). Correlating turgor pressure measurements rather than driving force, are responsible for the immediate cell expansion rate permits unique measurement of expansion-rate in roots (Pritchard et al. 1994). Mutational Analysis of...



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