



Principles of Soil and Plant Water Relations, Second Edition

By M.B. Kirkham

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Principles of Soil and Plant Water Relations, 2e describes the principles of water relations within soils, followed by the uptake of water and its subsequent movement throughout and from the plant body. This is presented as a progressive series of physical and biological interrelations, even though each topic is treated in detail on its own. The book also describes equipment used to measure water in the soil-plant-atmosphere system. At the end of each chapter is a biography of a scientist whose principles are discussed in the chapter. In addition to new information on the concept of celestial time, this new edition also includes new chapters on methods to determine sap flow in plants dual-probe heat-pulse technique to monitor water in the root zone.

- Provides the necessary understanding to address advancing problems in water availability for meeting ecological requirements at local, regional and global scales
- Covers plant anatomy: an essential component to understanding soil and plant water relations

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Editorial Review

About the Author

M. B. Kirkham is a Professor in the Department of Agronomy at Kansas State University. Her research involves two areas: soil-plant-water relations and uptake of heavy metals by crops grown on polluted soil (called “phytoremediation”). Dr. Kirkham is currently collaborating with colleagues at the Kansas State University Northwest Research-Extension Center in Colby, Kansas to study yield and water relations of sorghum grown under the semi-arid conditions of far western Kansas. Dr. Kirkham serves on several editorial boards: Soil Science; Journal of Crop Improvement; International Agrophysics; Crop Science; Australian Journal of Soil Research; Agriculture, Ecosystems and Environment; Agricultural Water Management; Pakistan Journal of Agricultural Research; Agricultural, Food and Analytical Bacteriology; and Journal of the American Society for Horticultural Science. In addition, Dr. Kirkham has received the CSSA Crop Science Research Award and the 2010-11 Iman Outstanding Faculty Award for Research.

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