

Principles of Soil and Plant Water Relations

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Kansas State University

"A tour-de-force covering the principles, instrumentation, methods and historical development of water relations in the soil-plant-atmosphere continuum.... This is a book that will become one of my standard references, close to hand on my bookshelves."

—Michael Unsworth, Oregon State University, author of *Principles of Environmental Physics*

"Professor Kirkham has used her considerable experience and vast knowledge both as a teacher and as a scientist to produce a comprehensive treatise on the principles of soil-plant-water relationships."

—M. Hossein Behboudian, Massey University, New Zealand

"This book is a basic treatise, clearly written, and entertaining throughout. It is a textbook that has all the attributes for becoming a classic in its field."

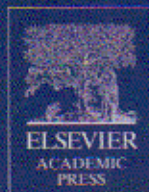
—Rienk R. van der Ploeg, University of Hannover, Germany

Principles of Soil and Plant Water Relations follows water as it moves through the soil-plant-atmosphere continuum (SPAC). Developed from award-winning lectures for a Kansas State University graduate class, this text applies fundamental laws and principles in physics, chemistry, and biology to the concepts and the movement of water in the SPAC. Information is clearly presented with the aid of professionally drawn diagrams, anatomical figures, and images of instrumentation. Chapters combine theory and practice, and include a variety of instrumentation examples and research approaches to measure soil and plant water status.

Intended for graduate students in plant and soil science programs, this book also serves as a useful reference for agronomists, plant ecologists, and agricultural engineers.

FEATURES:

- Presents fundamental principles in an easy-to-understand style
- Features more than 200 professionally drawn figures and illustrations
- Provides comprehensive reference lists for further research
- Includes short biographies of prominent scientists in the field



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