



Applications of Soil Physics

Daniel Hillel

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Applications of Soil Physics deals with the applications of soil physics and covers topics ranging from infiltration and surface runoff to groundwater drainage, evaporation from bare-surface soils, and uptake of soil moisture by plants. Water balance and energy balance in the field are also discussed, along with tillage and soil structure management. The development and extension of Penman's evaporation formula is also described.

This book is comprised of 14 chapters and begins with a systematic description of the field-water cycle and its management, with emphasis on infiltration and runoff; redistribution and drainage; evaporation and transpiration; and irrigation and tillage. Subsequent chapters focus on transpiration from plant canopies; freezing phenomena in soils; scaling and similitude of soil-water phenomena; spatial variability of soil physical properties; and movement of solutes during infiltration into homogeneous soil. Concepts of soil-water availability to plants are considered, together with principles of irrigation management and the advantages and limitations of drip irrigation.

This monograph is intended for upper-level undergraduate and graduate students of the environmental, engineering, and agronomic sciences.

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