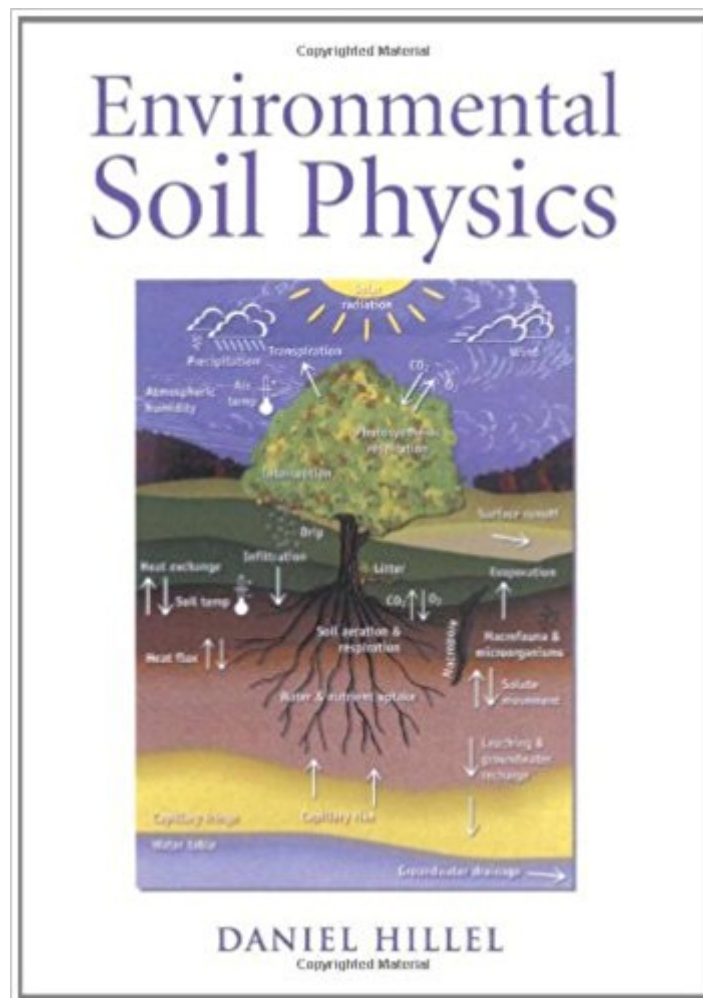




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Environmental Soil Physics: Fundamentals, Applications, And Environmental Considerations



Synopsis

Environmental Soil Physics is a completely updated and modified edition of the Daniel Hillel's previous, successful books, Introduction to Soil Physics and Fundamentals of Soil Physics. Hillel is a Pulitzer Prize-winning author, one of the true leaders in the field of environmental sciences. The new version includes a chapter and problems on computational techniques, addresses current environmental concerns and trends. Updates and expands the scope of Hillel's prior works, Fundamentals of Soil Physics (1980) and Applications of Soil Physics (1980). Explores the wide range of interactions among the phases in the soil and the dynamic interconnections of the soil with the subterranean and atmospheric domains. Draws attention to historical and contemporary issues concerning the human management of soil and water resources. Directs readers toward solution of practical problems in terrestrial ecology, field-scale hydrology, agronomy, and civil engineering. Incorporates contributions by leading scientists in the areas of spatial variability, soil remediation, and the inclusion of land-surface processes in global climate models.

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"...This text would make a valuable reference book for anyone working with soils in an environment context. The undertaking of this book by the author greatly serves a new age of environmental soil scientist. Environmental awareness is at its highest level ever and it is nice to have a leading scientist in his field cater to pertinent issues. This is a fine example of traditional subject matter being modernized to address current and relevant global issues." --JOURNAL OF

ENVIRONMENTAL QUALITY "Hillel offers an authoritative account of the physical properties of soil and its role in both natural and managed ecosystems." --CHOICE

Written by an eminent scientist known for his seminal contributions to the field and for his definitive publications, Environmental Soil Physics is a comprehensive, fundamental, and accessible guide to the physical principles and processes governing the behavior of soil and its vital role in both natural and managed ecosystems. Based on sound theory and practical field experience, the book describes the soil as a central link in the continuous chain that constitutes the terrestrial environment; a medium that generates and sustains life, while serving to recycle waste products. It reveals how the functioning of the soil can be affected-for better or worse-by human action. Environmental Soil Physics defines and describes the dynamic cycles of energy, water, solids, solutes, mineral, gases, and living organisms in the soil. It is self-contained and self-explanatory, with numerous illustrations and sample problems, up-to-date references, and relevance to real-world conditions.

This book is fantastic! Everything is extremely clear and all formulas are discussed in length. Very pleased to be using this book for class.

When we received homework on this class, the textbook did not help. There weren't examples of exercises. This textbook was only theoretical.

a great book for reference and detailed study . clear concepts and i believe a must buy for studying transport through soils

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