



Applied Soil Physics: Soil Water and Temperature Applications (Advanced Series in Agricultural Sciences)

By R.J. Hanks

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This second edition was undertaken to update information which has become available since the first edition and to convert completely to the SI system. The main objective of this book is to stress application of soil physics principles to real problems. The problems are heavily oriented toward the soil water-plant-atmosphere continuum. This book grew out of a course taught to upper level undergraduate and graduate students from many different disciplines and backgrounds. I have found that problems are a very good teaching tool because students need to solve them on their own and adapt them to their own understanding. I have found this problem-solving experience to be greatly enhanced if examples are available. Thus, this book is heavily laden with examples. This edition includes reference to many models, involving basic concepts discussed herein, by which it is possible to solve many more realistic--and more complex--problems such as drainage below the root zone (and associated pollution), plant growth as related to climate, soil properties, management, etc. The intent is to encourage students to advance to the next level. The book is not intended to be a complete introduction to applied soil physics, but rather to emphasize problem-solving and the important aspects of soil water and temperature.

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