



# Handbook of Processes and Modeling in the Soil-Plant System

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## Handbook of Processes and Modeling in the Soil-Plant System

Learn to create and use simulation models—the most reliable and cost-effective tools for predicting real-world results!

The Handbook of Processes and Modeling in the Soil-Plant System is the first book to present a holistic view of the processes within the soil-plant-atmosphere continuum. Unlike other publications, which tend to be more specialized, this book covers nearly all of the processes in the soil-plant system, including the fundamental processes of soil formation, degradation, and the dynamics of water and matter. It also illustrates how simulation modeling can be used to understand and forecast multiple interactions among various processes and predict their environmental impact.

This unique volume assembles information that until now was scattered among journals, bulletins, reports, and symposia proceedings to present models that simulate almost all of the processes occurring in the soil-plant system and explores the results that these models are capable of producing.

With chapters authored by experts with years of research and teaching experience, the Handbook of Processes and Modeling in the Soil-Plant System examines:

- physical, chemical, and biological soil processes
- the soil formation and weathering process and its modeling
- the impact of radioactive fallout on the soil-plant system
- soil degradation processes and ways to control them
- water and matter dynamics in the soil-plant system
- growth and development of crops at various levels of production
- the potentials and limitations of using simulation models

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