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Federal Information Sources & Systems

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 Students, educators, and professionals alike will find the Handbook of Processes and Modeling in the Soil-Plant System an invaluable reference on the soil-plant-atmosphere system and an ideal tool to help develop an effective decision support system.

Scientific and Technical Aerospace Reports

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This book contains articles from a workshop on the modeling of water and nutrient dynamics in crop-soil systems. Data sets from lysimeters and experimental fields of multiyear crop rotations were provided for modelers. A unique data set is provided of a 100-year, long-term field experiment into crop yield and organic carbon development under different management systems. The book includes a detailed description of data sets which can be used by modelers and the papers describe the applications of 18 different modeling approaches.

Monthly Catalogue, United States Public Documents

Why model? Agricultural system models enhance and extend field research...to synthesize and examine experiment data and advance our knowledge faster, to extend current research in time to predict best management systems, and to prepare for climate-change effects on agriculture. The relevance of such models

depends on their implementation. *Methods of Introducing System Models into Agricultural Research* is the ultimate handbook for field scientists and other model users in the proper methods of model use. Readers will learn parameter estimation, calibration, validation, and extension of experimental results to other weather conditions, soils, and climates. The proper methods are the key to realizing the great potential benefits of modeling an agricultural system. Experts cover the major models, with the synthesis of knowledge that is the hallmark of the *Advances in Agricultural Systems Modeling* series.

Monthly Catalog of United States Government Publications

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The Enabling Technology

The field of engineering is becoming increasingly interdisciplinary, and there is an ever-growing need for engineers to investigate engineering and scientific resources outside their own area of expertise. However, studies have shown that quality information-finding skills often tend to be lacking in the engineering profession. Using the Engineerin

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