

Environmental Soil Physics

Yakov Pachepsky, David E. Radcliffe, H. Magdi Selim

Introduction to Environmental Soil Physics Daniel Hillel, 2003-12-17 An abridged, student-oriented edition of Hillel's earlier published *Environmental Soil Physics*, *Introduction to Environmental Soil Physics* is a more succinct elucidation of the physical principles and processes governing the behavior of soil and the vital role it plays in both natural and managed ecosystems. The textbook is self-contained and self-explanatory, with numerous illustrations and sample problems. Based on sound fundamental theory, the textbook leads to a practical consideration of soil as a living system in nature and illustrates the influences of human activity upon soil structure and function. Students, as well as other readers, will better understand the importance of soils and the pivotal position they occupy with respect to careful and knowledgeable conservation. - Written in an engaging and clear style, posing and resolving issues relevant to the terrestrial environment - Explores the gamut of the interactions among the phases in the soil and the dynamic interconnection of the soil with the subterranean and atmospheric domains - Reveals the salient ideas, approaches, and methods of environmental soil physics - Includes numerous illustrative exercises, which are explicitly solved - Designed to serve for classroom and laboratory instruction, for self-study, and for reference - Oriented toward practical problems in ecology, field-scale hydrology, agronomy, and civil engineering - Differs from earlier texts in its wider scope and holistic environmental conception

Environmental Soil Physics Daniel Hillel, 1998-09-09 *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

Fundamentals of Soil Physics Daniel Hillel, 2013-10-22 This book is not, in any case, in total defiance of the Wise Old

Man's admonition, for it is not an entirely new book. Rather, it is an outgrowth of a previous treatise, written a decade ago, entitled *Soil and Water: Physical Principles and Processes*. Though that book was well enough received at the time, the passage of the years has inevitably made it necessary to either revise and update the same book, or to supplant it with a fresh approach in the form of a new book which might incorporate still-pertinent aspects of its predecessor without necessarily being limited to the older book's format or point of view.

Soil Physics William A. Jury, Robert Horton, 2004-03-25 The completely revised and updated edition of the classic guide to soil physics The revised edition of an environmental soil science classic, *Soil Physics, Sixth Edition* presents updated and expanded material on the latest developments in the industry, providing the best preparation for students and a state-of-the-art reference for professionals. Through a systemic use of physical principles, *Soil Physics, Sixth Edition* demonstrates how to simplify the general theory used in transport processes for specific applications. With broad coverage of the role soil plays in the environment, this Sixth Edition offers more than seventy worked problems illustrating specific lessons in the book, and features: * New material on soil's influence on the health of an ecosystem * Expanded coverage of modern in-site and noninvasive field-scale subsurface measurement techniques * Discussions on the latest advances in regional and watershed hydrology * Up-to-date information on the use of algorithms and computers in the study and modeling of soil processes * New coverage of preferential flow *Soil Physics, Sixth Edition* is an essential volume for students and professionals in soil science, natural resource management, forestry, agriculture, hydrology, and civil and environmental engineering.

Application of Soil Physics in Environmental Analyses Wenceslau Geraldes Teixeira, Marcos Bacis Ceddia, Marta Vasconcelos Ottoni, Guilheme Kangussu Donnagema, 2014-06-30 The importance to preserve soil and water have is increasingly recognized. Agricultural practices and ecological trends both affect and are affected by soil physical properties. The more frequency of natural disasters, as landslides and thunderstorms addresses the importance to integrate soil characteristics in predictive models. Soil physics research has grown considerably specially in the use of innovative sensors, soil databases, and modeling techniques have been introduced into soil water relationship and environmental monitoring. Those advances are thoroughly dispersed in articles and conference proceedings In this volume, the authors will bring together the effectiveness of many new field and lab sensors and examine the current state-of-the-art in modeling and data analysis. It also includes innovative approaches and case studies in tropical soils. Future directions in soil physics research are given by key researchers in this discipline.

An Introduction to the Environmental Physics of Soil, Water and Watersheds C. W. Rose, 2004-04 This introductory textbook describes the nature of the Earth's environment and its physical processes so as to highlight environmental concerns arising from human use and misuse of soil and water resources. The author provides a thorough introduction to the basic issues regarding the sustainable, productive use of land resources that is vital in maintaining healthy rivers and good

groundwater qualities. He develops a quantitative approach to studying these growing environmental concerns in a way that does not require prior knowledge of the physical sciences or calculus. The straightforward writing style, lack of prerequisite knowledge and copious illustrations make this textbook suitable for introductory university courses, as well as being a useful primer for research and management staff in environmental and resources management organisations. Each chapter ends with a set of student exercises for which solutions are available from solutions@cambridge.org.

Soil Physics H. Don Scott, 2000-09-11 This textbook is designed for use in university courses on the subject and as a reference book for practitioners and students. The work describes the physical properties of soils and how these properties affect agriculture and the environment. It is unique in its inclusion of pedology, taxonomy and pedotransfer functions.

Soil in the Environment Daniel Hillel, 2007-12-14 Soil in the Environment is key for every course in soil science, earth science, and environmental disciplines. This textbook engages students to critically look at soil as the central link in the function and creation of the terrestrial environment. For the first time, Dr. Hillel brilliantly discusses soils as a natural body that is engaged in dynamic interaction with the atmosphere above and the strata below that influences the planet's climate and hydrological cycle, and serves as the primary habitat for a versatile community of living organisms. The book offers a larger perspective of soil's impact on the environment by organizing chapters among three main processes: Physical, Chemical, and Biology. It is organized in a student-friendly format with examples, discussion boxes, and key definitions in every chapter. The book provides students of geology, physical science, and environmental studies with fundamental information and tools for meeting the natural resource challenges of the 21st century, while providing students of soil science and ecology with the understanding of physical and biological interactions necessary for sustainability. - First textbook to unite soil science and the environment beyond what is traditionally taught - Incorporates current knowledge of such hot topics as climate change, pollution control, human expropriation of natural resources, and the prospects for harmonious and sustainable development - Organized in a student-friendly format with examples, discussion boxes, and key definitions in every chapter - Full color throughout

Environmental Soil Science Kim H. Tan, 2009-04-23 Completely revised and updated, incorporating almost a decade's worth of developments in this field, Environmental Soil Science, Third Edition, explores the entire reach of the subject, beginning with soil properties and reactions and moving on to their relationship to environmental properties and reactions. Keeping the organization and writing style

Soil Physics T. J. Marshall, J. W. Holmes, C. W. Rose, 1996-05-31 Now in its third edition, this textbook gives a comprehensive account of soil physics with emphasis on field applications for students and research workers engaged in water resources studies, soil sciences, and plant sciences. The authors have added chapters on soil erosion, conservation, and the role of soil in affecting water quality to this new edition. The book gives an account of how water influences the

structure and strength of soil; how plants absorb water from soils; how water from rain and irrigation enters the soil and flows through it to contribute to stream flow and flow in artificial drains; how soluble salts and chemical pollutants are transported; how soils are eroded by water and wind; and how the evaporation rate from the land surface is influenced by soil water supply, the nature of the plant cover and the evaporative power of the atmosphere. This book will be useful to students and research workers in environmental sciences, hydrology, agriculture, soil science, and civil engineering.

Soil Physics with Python Marco Bittelli, Gaylon S. Campbell, Fausto Tomei, 2015 This innovative study presents concepts and problems in soil physics, and provides solutions using original computer programs. It provides a close examination of physical environments of soil, including an analysis of the movement of heat, water and gases. The authors employ the programming language Python, which is now widely used for numerical problem solving in the sciences. In contrast to the majority of the literature on soil physics, this text focuses on solving, not deriving, differential equations for transport. Using numerical procedures to solve differential equations allows the solution of quite difficult problems with fairly simple mathematical tools. Numerical methods convert differential into algebraic equations, which can be solved using conventional methods of linear algebra. Each chapter introduces a soil physics concept, and proceeds to develop computer programs to solve the equations and illustrate the points made in the discussion. Problems at the end of each chapter help the reader practise using the concepts introduced. The text is suitable for advanced undergraduates, graduates and researchers of soil physics. It employs an open source philosophy where computer code is presented, explained and discussed, and provides the reader with a full understanding of the solutions. Once mastered, the code can be adapted and expanded for the user's own models, fostering further developments. The Python tools provide a simple syntax, Object Oriented Programming techniques, powerful mathematical and numerical tools, and a userfriendly environment.

Scaling Methods in Soil Physics Yakov Pachepsky, David E. Radcliffe, H. Magdi Selim, 2003-03-26 The scaling issue remains one of the largest problems in soil science and hydrology. This book is a unique compendium of ideas, conceptual approaches, techniques, and methodologies for scaling soil physical properties. *Scaling Methods in Soil Physics* covers many methods of scaling that will be useful in helping scientists across a range of soil-rel

Soil Physics with BASIC G.S. Campbell, 1985-11-01 This book covers material taught in a graduate-level soil physics course at Washington State University. While most soil physics courses dwell mainly on deriving rather than solving the differential equations for transport, the author's approach is to focus on solutions. Graduate students in agricultural and biological sciences usually have a good working knowledge of algebra and calculus, but not of differential equations. In order to teach methods for solving very difficult differential equations with difficult boundary conditions using fairly simple mathematical tools, the author uses numerical procedures on microcomputers to solve the differential equations. Numerical methods convert differential equations into algebraic equations which can be solved using conventional methods of linear

algebra. This book reflects the philosophy used in the course. Each chapter introduces soil physics concepts, generally in the conventional way. Most chapters then go on to develop simple computer programs to solve the equations and illustrate the points made in the discussion. Problems at the end of each chapter help the reader practice using the concepts introduced in the chapter. The problems and computer programs are an integral part of the presentation, and readers are strongly encouraged to experiment with each model until both the working of the model and the concepts it teaches are familiar. Although the programs are generally short and relatively simple, they are suitable for use as submodels in large, general-purpose models of the soil-plant-atmosphere system, and have been used in this way by the author and by several of his students. Teachers and students alike will welcome this new textbook. It will enable graduate students to understand and solve transport problems which exist in field situations, and will provide them with a good working knowledge of soil physics - fundamental to so many other areas in soil, plant and engineering sciences.

Introduction to Soil Physics Daniel Hillel, 2013-10-22 This book is a unified, condensed, and simplified version of the recently issued twin volumes, *Fundamentals of Soil Physics* and *Applications of Soil Physics*. Nonessential topics and complexities have been deleted, and little prior knowledge of the subject is assumed. An effort has been made to provide an elementary, readable, and self-sustaining description of the soil's physical properties and of the manner in which these properties govern the processes taking place in the field. Consideration is given to the ways in which the soil's processes can be influenced, for better or for worse, by man. Sample problems are provided in an attempt to illustrate how the abstract principles embodied in mathematical equations can be applied in practice. The author hopes that the present version will be more accessible to students than its precursors and that it might serve to arouse their interest in the vital science of soil physics.

Principles of Environmental Physics John Monteith, M. H. Unsworth, 1990-02-15 Thoroughly revised and up-dated edition of a highly successful textbook.

Environmental Soil Properties and Behaviour Raymond N. Yong, Masashi Nakano, Roland Pusch, 2012-03-05 From bridges and tunnels to nuclear waste repositories, structures require that soils maintain their design engineering properties if the structures are to reach their projected life spans. The same is true for earth dams, levees, buffers, barriers for landfills, and other structures that use soils as engineered materials. Yet soil, a natural resource, continues to change as a result of natural and anthropogenic stresses. As the discipline of soil properties and behaviours matures, new tools and techniques are making it possible to study these properties and behaviours in more depth. *What Happens to Soil Under Weathering, Aging, and Chemical Stress?* *Environmental Soil Properties and Behaviour* examines changes in soil properties and behaviour caused by short- and long-term stresses from anthropogenic activities and environmental forces. Introducing new concepts of soil behaviour, soil maturation, and soil functionality, it integrates soil physics, soil chemistry, and soil mechanics as vital

factors in soil engineering. The book focuses on environmental soil behaviour, with particular attention to two main inter-related groups of soil-environment issues. The first is the use of soil as an environmental tool for management and containment of toxic and hazardous waste materials. The second is the impact of ageing and weathering processes and soil contamination on the properties and behaviour of soils, especially those used in geotechnical and geoenvironmental engineering projects. A Transdisciplinary Look at Soil-Changing Processes To determine short- and long-term soil quality and soil functionality, the authors emphasize the need to be aware of the nature of the stressors involved as well as the kinds of soil-changing processes that are evoked. This book takes a first step toward a much-needed transdisciplinary effort to develop a broader and deeper understanding of what happens to soil and how we can determine and quantify the effect of biogeochemical processes. It offers a timely resource for the study of soil properties and behaviours, effects of environmental changes, and remediation of contaminated soil.

An Introduction to Environmental Biophysics Gaylon S. Campbell, John Norman, 2012-12-06 From reviews of the first edition: well organized . . . Recommended as an introductory text for undergraduates -- AAAS Science Books and Films well written and illustrated -- Bulletin of the American Meteorological Society

Soil Physics with HYDRUS David E. Radcliffe, Jiri Simunek, 2018-10-03 Numerical models have become much more efficient, making their application to problems increasingly widespread. User-friendly interfaces make the setup of a model much easier and more intuitive while increased computer speed can solve difficult problems in a matter of minutes. Co-authored by the software's creator, Dr. Jirka Šimunek, *Soil Physics with HYDRUS: Modeling and Applications* demonstrates one- and two-dimensional simulations and computer animations of numerical models using the HYDRUS software. Classroom-tested at the University of Georgia by Dr. David Radcliffe, this volume includes numerous examples and homework problems. It provides students with access to the HYDRUS-1D program as well as the Rosetta Module, which contains large volumes of information on the hydraulic properties of soils. The authors use HYDRUS-1D for problems that demonstrate infiltration, evaporation, and percolation of water through soils of different textures and layered soils. They also use it to show heat flow and solute transport in these systems, including the effect of physical and chemical nonequilibrium conditions. The book includes examples of two-dimensional flow in fields, hillslopes, boreholes, and capillary fringes using HYDRUS (2D/3D). It demonstrates the use of two other software packages, RETC and STANMOD, that complement the HYDRUS series. Hands-on use of the windows-based codes has proven extremely effective when learning the principles of water and solute movement, even for users with very little direct knowledge of soil physics and related disciplines and with limited mathematical expertise. Suitable for teaching an undergraduate or lower level graduate course in soil physics or vadose zone hydrology, the text can also be used for self-study on how to use the HYDRUS models. With the information in this book, you can run models for different scenarios and with different parameters, and thus gain a better understanding of the physics of water

flow and contaminant transport.

Applied Soil Physics R.J. Hanks,G.L. Ashcroft,2013-06-29

An Introduction to Soils for Environmental Professionals Duane L. Winegardner,1995-10-20 An Introduction to Soils for Environmental Professionals assembles and presents the basic principles of each of the major soil science fields. It introduces fundamental concepts and shows the interrelationships between the various branches of soil science - from mineralogy to soil physics. Each chapter was reviewed by a professional in the particular field, and expert contributions were made throughout the text. This well-written and interdisciplinary book begins with introductory material, covering the fundamentals of soils, soil science, and soil classification systems. The presentation of soil mineralogy contains contributions from a lecturer in the field of mineralogy and so constitutes an excellent source of introductory material on the subject. Soil mechanics and soil physics are described in detail, incorporating interesting discussions related to applied problems in soil science studies and research. The coverage of soil chemistry emphasizes environmental aspects and contains information that has been used and reviewed by students in environmental science courses. The coverage of microbiology reflects the input of a specialist in biodegradation and bioremediation of contaminated sites. Sampling techniques and selection of appropriate procedures for soil analysis are reviewed, and contributions from specialists in both of these fields are included. The chapter on agricultural considerations presents the basic concepts of plant and soil interactions. The management and interpretation of data obtained in soil studies is discussed, emphasizing the need for proper handling and presentation of data. The book closes with a presentation of case histories from published articles, public data, and the personal experiences of the author. These presentations illustrate the application of many of the important concepts highlighted in *An Introduction to Soils for Environmental Professionals*.

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