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 Soil Formation, Functions, Use and Classification (World Reference Base, WRB)
 Soil and Environmental Chemistry
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 Textbook of Soil Sciences
 Fundamentals of Soil Ecology
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 Global Change and Forest Soils
 Introduction to Soil Science
 Essentials of Soil Science
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Remote Sensing in Soil Science Trafford Publishing
 The importance of soil; Soil origin and development; Physical properties of soil; Soil water; Water conservation; Irrigation and drainage; Life in the soil; Organic matter; Soil fertility; Soil pH and salinity; Plant nutrition; Soil sampling and testing; Fertilizers; Organic amendments; Tillage and cropping systems; Horticultural uses of soil; Soil classification and survey; Soil Conservation; Urban soil; Government agencies and programs; Some basic chemistry; Sedimentation test of soil texture; Soil orders of the United States; Soil horizon symbol suffixes; Land evaluation.
Fourth Edition Elsevier
 Build healthy soil and grow better plants Robert Pavlis, a gardener for over four decades, debunks common soil myths, explores the rhizosphere, and provides a personalized soil fertility improvement program in this three-part popular science guidebook. Healthy soil means thriving plants. Yet untangling the soil food web and optimizing your soil health is beyond most gardeners, many of whom lack an in-depth knowledge of the soil

ecosystem. Soil Science for Gardeners is an accessible, science-based guide to understanding soil fertility and, in particular, the rhizosphere – the thin layer of liquid and soil surrounding plant roots, so vital to plant health. Coverage includes: Soil biology and chemistry and how plants and soil interact Common soil health problems, including analyzing soil's fertility and plant nutrients The creation of a personalized plan for improving your soil fertility, including setting priorities and goals in a cost-effective, realistic time frame. Creating the optimal conditions for nature to do the heavy lifting of building soil fertility Written for the home gardener, market gardener, and micro-farmer, Soil Science for Gardeners is packed with information to help you grow thriving plants.

Soils and Human Health Cambridge University Press
 As the author states in his Preface, this book is written at a time when scientific and lay communities recognize that knowledge of environmental chemistry is fundamental in understanding and predicting the fate of pollutants in soils and waters, and in making sound decisions about remediation of contaminated soils. Environmental Soil Chemistry presents the fundamental concepts of soil science and applies them to environmentally significant reactions in soil. Clearly and concisely written for undergraduate

and beginning graduate students of soil science, the book is likewise accessible to all students and professionals of environmental engineering and science. Chapters cover background information useful to students new to the discipline, including the chemistry of inorganic and organic soil components, soil acidity and salinity, and ion exchange and redox phenomena. However, discussion also extends to sorption/desorption, oxidation-reduction of metals and organic chemicals, rates of pollutant reactions as well as technologies for remediating contaminated soils. Supplementary reading lists, sample problems, and extensive tables and figures make this textbook accessible to readers. Key Features * Provides students with both sound contemporary training in the basics of soil chemistry and applications to real-world environmental concerns * Timely and comprehensive discussion of important concepts including: * Sorption/desorption * Oxidation-reduction of metals and organics * Effects of acidic deposition and salinity on contaminant reactions * Boxed sections focus on sample problems and explanations of key terms and parameters * Extensive tables on elemental composition of soils, rocks and sediments, pesticide classes, inorganic minerals, and methods of decontaminating soils * Clearly written for all students and professionals in environmental science and environmental engineering as well as soil science

Soils of the Tropics Macmillan

Essential Soil Science A Clear and Concise Introduction to Soil Science John Wiley & Sons

Introductory Soil Science John Wiley & Sons

An evolving, living organic/inorganic covering, soil is in dynamic equilibrium with the atmosphere above, the biosphere within, and the geology below. It acts as an anchor for roots, a purveyor of water and nutrients, a residence for a vast community of microorganisms and animals, a sanitizer of the environment, and a source of raw materials for co

Soil Science Simplified Waveland Press

With the growing popularity and availability of precision equipment, farmers and producers have access to more data than ever before. With proper implementation, precision agriculture management can improve profitability and sustainability of production. Precision Agriculture Basics is geared at students, crop consultants, farmers, extension workers, and practitioners that are interested in practical applications of site-specific agricultural management. Using a multidisciplinary approach, readers are taught to make data-driven on-farm decisions using the most current knowledge and tools in crop science, agricultural engineering, and geostatistics. Precision Agriculture Basics also features a stunning video glossary including interviews with agronomists on the job and in the field.

Introduction to Soil Science Elsevier

This textbook is aimed at the majority of students, who need to quickly acquire a concise overview of soil science. Many current soil science textbooks still cater for a traditional student market where students embark on three years study in a narrow discipline. The growth in modular degree schemes has meant that soil science is now often taught as self-standing unit as part of broad based degree program. Students pursuing this type of course are increasingly reluctant to purchase expensive textbooks that are too detailed and often assume a scientific background. For those opting to specialise in soil science there are a variety of good textbooks to choose from. This short informative guide, will be particularly useful for students who do not possess a traditional scientific background, such as those studying geography, environment science, ecology and agriculture. Only textbook to cater for introductory courses in soil science. Provides an affordable concise overview of soil science. Learning exercises

and chapter summaries enhance usability. Annotated suggestions for further reading. Based on proven and successful modular course structure. Emphasis on readability and interactive learning. No scientific background assumed.

Hydropedology CRC Press

This book is a unique integrated treatise, on the concepts of fractional calculus as models with applications in hydrology, soil science and geomechanics. The models are primarily fractional partial differential equations (fPDEs), and in limited cases, fractional differential equations (fDEs). It develops and applies relevant fPDEs and fDEs mainly to water flow and solute transport in porous media and overland, and in some cases, to concurrent flow and energy transfer. It is an integrated resource with theory and applications for those interested in hydrology, hydraulics and fluid mechanics. The self-contained book summarizes the fundamentals for porous media and essential mathematics with extensive references supporting the development of the model and applications.

Principles and Practice of Soil Science Springer

Aflatoxin contamination represents a serious threat to a healthy food supply. Resulting from mold on corn, peanuts, and other grains and grain products, aflatoxins are extremely toxic. Understanding the nature of fungi infection and the factors that favor aflatoxin formation is important to grain producers, dealers, and other professionals who control grain from the field to the site of consumption to prevent serious loss of large quantities of grain or grain products. Producers of poultry, cattle, sheep, pigs, and even pet food need to be aware of the threat of aflatoxin. Participants in the grain industry who grow, store, or process corn and other grains subject to potential infection by aflatoxin should be aware of the risks of fungal infection and aflatoxin contamination, and proper management strategies. The authors focus on the binding of aflatoxin in animal feeds by employing calcium smectite. Readers will be especially glad to know that aflatoxin can often be controlled with a natural mineral material to bind aflatoxin in animal feeds at a modest cost.--Back cover. Waveland Press

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.

Analysis and Instrumentation Oxford University Press, USA

This compilation has been designed to provide a comprehensive source of theoretical and practical update for scientists working in the broad field of soil science. The book explores all possible

mechanisms and means to improve nutrient use efficiencies involving developing and testing of nanofertilizers, developing consortia based microbial formulations for mobilization of soil nutrients, and engineering of nutrient efficient crops using molecular biology and biotechnological tools. This is an all-inclusive collection of information about soil science. This book is of interest to teachers, researchers, soil scientists, capacity builders and policymakers. Also the book serves as additional reading material for undergraduate and graduate students of soil science, quantitative ecology, earth sciences, GIS and geodetic sciences, as well as geologists, geomorphologists, hydrologists and landscape ecology. National and international agriculture and soil scientists, policy makers will also find this to be a useful read. [Soil Science](#) Cengage Learning

[Plant & Soil Science Fundamentals and Applications](#) combines the basic knowledge of plant and soil science, in an easy to read and teach format, and provides practical real world application for information learned. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

[Soils and Environmental Quality](#) John Wiley & Sons

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 Formation, Functions, Use and Classification \(World Reference Base, WRB\)](#) New Society Publishers

Despite the connections between soils and human health, there has not been a great amount of attention focused on this area when compared to many other fields of scientific and medical study. [Soils and Human Health](#) brings together authors from diverse fields with an interest in soils and human health, including soil science, geology, geography, biology, and anthropology to investigate this issue from a number of perspectives. The book includes a soil science primer chapter for readers from other fields, and discusses the ways the soil science community can contribute to improving our understanding of soils and human health. Features Discusses ways the soil science community can contribute to the improvement of soil health Approaches human health from a soils-focused perspective, covering the influence of soil conservation and contact with soil on human health Illustrates topics via case studies including arsenic in groundwater in Bangladesh; the use of Agent Orange in Vietnam; heavy metal contamination in Shipham, United Kingdom and Omaha, Nebraska, USA; and electronic waste recycling in China. In a scientific world where the trend has often been ever-increasing specialization and increasingly difficult communication between fields and subfields, the interdisciplinary nature of soils and human health studies presents a significant challenge going forward. Fields with an interest in soils and human health need to have increased cross-disciplinary communication and cooperation. This book is a step in the direction of accessibility and innovation, elucidating the state of knowledge in the meeting of soil and health sciences, and identifying places where more work is needed.

[Soil and Environmental Chemistry](#) Elsevier

The first process-based textbook on how soils form and function in biogeochemical cycles, offering a self-contained and integrated overview of the field as it now stands for advanced undergraduate and graduate students in soil science, environmental science, and the wider Earth sciences. The jargon-free approach quickly familiarises students with the field's theoretical foundations before moving on to analyse chemical

and other numerical data, building the necessary skills to develop questions and strategies for original research by the end of a single semester course. The field-based framework equips students with the essential tools for accessing and interpreting the vast USDA soil dataset, allowing them to establish a working knowledge of the most important modern developments in soil research. Complete with numerous end-of-chapter questions, figures and examples, students will find this textbook a multidisciplinary toolkit invaluable to their future careers.

[Soils of South Africa](#) CRC Press

[Soils of South Africa](#) is the first book in seventy years that provides a comprehensive account of South African soils. The book arranges more than seventy soil forms into fourteen groups and then provides, for each group: • maps showing their distribution and abundance throughout South Africa • descriptions of morphological, chemical and physical properties • a detailed account of classification and its correlation with international systems • a discussion of soil genesis which includes a review of relevant research papers • appraisal of soil quality from a land use perspective as well as for its ecological significance • illustrative examples of soil profiles with analytical data and accompanying interpretations. There is also a fascinating account of the special relationship that exists between South African animals and soil environments. [Soils of South Africa](#) should interest students and researchers in the earth, environmental and biological sciences, as well as environmental practitioners, farmers, foresters and civil engineers.

[Textbook of Soil Sciences](#) Tata McGraw-Hill Education

[Soil and Environmental Chemistry, Second Edition](#), presents key aspects of soil chemistry in environmental science, including dose responses, risk characterization, and practical applications of calculations using spreadsheets. The book offers a holistic, practical approach to the application of environmental chemistry to soil science and is designed to equip the reader with the chemistry knowledge and problem-solving skills necessary to validate and interpret data. This updated edition features significantly revised chapters, averaging almost a 50% revision overall, including some reordering of chapters. All new problem sets and solutions are found at the end of each chapter, and linked to a companion site that reflects advances in the field, including expanded coverage of such topics as sample collection, soil moisture, soil carbon cycle models, water chemistry simulation, alkalinity, and redox reactions. There is also additional pedagogy, including key term and real-world scenarios. This book is a must-have reference for researchers and practitioners in environmental and soil sciences, as well as intermediate and advanced students in soil science and/or environmental chemistry. Includes additional pedagogy, such as key terms and real-world scenarios Supplemented by over 100 spreadsheets to migrate readers from calculator-based to spreadsheet-based problem-solving that are directly linked from the text Includes example problems and solutions to enhance understanding Significantly revised chapters link to a companion site that reflects advances in the field, including expanded coverage of such topics as sample collection, soil moisture, soil carbon cycle models, water chemistry simulation, alkalinity, and redox reactions

[Fundamentals of Soil Ecology](#) Elsevier

A basic and applied textbook, ideal for students.

[An Introduction](#) CRC Press

[Principles and Practice of Soil Science, Fourth Edition](#) provides a current and comprehensive introduction to soil science for students in the fields of environmental and agricultural science, ecology, soil and land management, natural resource

management and environmental engineering. Covers all aspects of soil science including soil habitat, processes in the soil environment and soil management. Emphasizes the applications of soil science to the solution of practical problems in soil and land management. Highlights real world examples drawn from the author's international experience in the field. Includes an expanded colour section of soil profiles and other features, and greater coverage of international soil classification. Features new problem sets and questions at the end of each chapter, designed to reinforce important principles. An answer key is provided at the end of the text. Artwork from the book is available to instructors

online at www.blackwellpublishing.com/white
[Global Change and Forest Soils](#) Routledge

This work examines the issue of accelerated soil erosion, which has become an increasingly serious concern in the twentieth century. Aspects considered include on-site impact of erosion; application of soil science to problems of non-agricultural uses of soil, such as mineland restoration, urban uses and disposal of urban wastes; soil contamination and pollution by industrial activities; and athletic and recreational uses of soil. Soil Quality and Soil Erosion will be a useful text for soil scientists, agronomists, foresters, and environmental scientists as we enter the next century.

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