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Animal Societies - Remy Chauvin 1971

Physicochemical and Environmental Plant Physiology - Park S. Nobel 2012-12-02
This text is the successor volume to Biophysical Plant Physiology and Ecology (W.H. Freeman, 1983). The content has been extensively updated based on the growing quantity and quality of plant research, including cell growth and water relations, membrane channels, mechanisms of active transport, and the bioenergetics of chloroplasts and mitochondria. One-third of the figures are new or modified, over 190 new references are incorporated, the appendixes on constants and conversion factors have doubled the number of entries, and the solutions to problems are given for the first time. Many other changes have emanated from the best laboratory for any book, the classroom. · Covers water relations and ion transport for plant cells; diffusion, chemical potential gradients, solute movement in and out of plant cells · Covers interconnection of various energy forms; light, chlorophyll and accessory photosynthesis pigments, ATP and NADPH · Covers forms in which energy and matter enter and leave a plant; energy budget analysis, water vapor and carbon dioxide, water movement from soil to plant to atmosphere
Introduction to Forestry and Natural Resources - Donald L. Grebner 2021-01-19
Introduction to Forestry and Natural Resources, Second Edition, presents a broad, completely updated overview of the profession of forestry. The book details several key fields within forestry, including forest management, economics, policy, utilization and forestry careers. Chapters deal specifically with forest regions of the world, landowners, forest products, wildlife habitats, tree anatomy and physiology, and forest disturbances and health. These topics are ideal for undergraduate introductory courses and include numerous examples and questions for students to ponder. There is also a section dedicated to forestry careers. Unlike other introductory forestry texts, which focus largely on forest ecology rather than practical forestry concepts, this book encompasses the economic, ecological and social aspects, thus providing a uniquely balanced text. The wide range of experience of the contributing authors equips them especially well to identify missing content from other texts in the area and address topics currently covered in corresponding college courses. Covers the application of forestry and natural resources around the world with a focus on practical applications and graphical examples Describes basic techniques for measuring and evaluating forest resources and natural resources, including fundamental terminology and concepts Includes management policies and their influence at the local, national and international levels
Plant Physiology - Ramdane Dris 2002
Focuses on factors affecting physiological changes occuring during the growth and development of plants with a view to crop breeding.
Environmental Physiology of Plants - Alastair Fitter 1987
Already a widely acknowledged and successful work, this second edition has been extensively revised to reflect the vast amount of new literature in the field of plant physiology. The text deals with plant physiological responses to the environment, focusing on the boundary between physiology and ecology, and the treatment is largely based on North American and European examples with reference to the tropics when necessary.
Botany Illustrated - Janice Glimn-Lacy 2012-12-06
This is a discovery book about plants. It is for students In the first section, introduction to plants, there are sev of botany and botanical illustration and everyone inter eral sources for various types of drawings. Hypotheti ested in plants. Here is an opportunity to browse and cal diagrams show cells, organelles, chromosomes, the choose subjects of personal inter. est, to see and learn plant body indicating tissue systems and experiments about plants as they are described. By adding color to with plants, and flower placentation and reproductive the drawings, plant structures become more apparent structures. For example, there is no average or stan and show how they function in life. The color code dard-looking flower; so to clearly show the parts of a clues tell how to color for definition and an illusion of flower (see 27), a diagram shows a stretched out and depth. For more information, the text explains the illus exaggerated version of a pink (Dianthus) flower (see trations. The size of the drawings in relation to the true 87). A basswood (Tifia) flower is the basis for diagrams size of the structures is indicated by X 1 (the same size) of flower types and ovary positions (see 28). Another to X 3000 (enlargement from true size) and X n/n source for drawings is the use of prepared microscope (reduction from true size). slides of actual plant tissues.
Fundamental Of Plant Physiology - V. K. Jain 2000-10

Invertibrate Zoology - P.S.Verma 2001-01-01
For B.Sc. and B.Sc(hons.) students of all Indian Universities & Also as per UGC Model Curriculum. The multicoloured figures and arrestingly natural photographs effectively complement the standard text matter. The target readers shall highly benefit by correlating the content with the muliticoloured figures and photographs The book has been further upgraded with addition of important questions: long, short, very short and multiple questions in all chapters. A complete comprehensive source for the subject matter of various university examinations.
The Urban Tree - Duncan Goodwin 2017-04-07
There is a growing evidence base that documents the social, environmental and economic benefits that urban trees can deliver. Trees are, however, under threat today as never before due to competition for space imposed by development, other hard infrastructures, increased pressure on the availability of financial provision from local authorities and a highly cautious approach to risk management in a modern litigious society. It is, therefore, incumbent upon all of us in construction and urban design disciplines to pursue a set of goals that not only preserve existing trees where we can, but also ensure that new plantings are appropriately specified and detailed to enable their successful establishment and growth to productive maturity. Aimed at developers, urban planners, urban designers, landscape architects and arboriculturists, this book takes a candid look at the benefits that trees provide alongside the threats that are eliminating them from our towns and cities. It takes a simple, applied approach that explores a combination of science and practical experience to help ensure a pragmatic and reasoned approach to decision-making in terms of tree selection, specification, placement and establishment. In this way, trees can successfully be incorporated within our urban landscapes, so that we can continue to reap the benefits they provide.
Physiological Ecology of North American Plant Communities - Brain F. Chabot 2012-12-06
Although, as W.D. Billings notes in his chapter in this book. the development of physiological ecology can be traced back to the very beginnings of the study of ecology it is clear that the modern development of this field in North America is due in the large part to the efforts of Billings alone. The foundation that Billings laid in the late 1950s came from his own studies on deserts and subsequently arctic and alpine plants, and

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also from his enormous success in instilling enthusiasm for the field in the numerous students attracted to the plant ecology program at Duke University. Billings' own studies provided the model for subsequent work in this field. Physiological techniques. normally confined to the laboratory. were brought into the field to examine processes under natural environmental conditions. These field studies were accompanied by experiments under controlled conditions where the relative impact of various factors could be assessed and further where genetic as opposed to environmental influences could be separated. This blending of field and laboratory approaches promoted the design of experiments which were of direct relevance to understanding the distribution and abundance of plants in nature. Physiological mechanisms were studied and assessed in the context of the functioning of plants under natural conditions rather than as an end in itself.

Physiology and Molecular Biology of Stress Tolerance in Plants - K.V. Madhava Rao 2006-02-10
Biologists worldwide now speak the scientific language of molecular biology and use the same molecular tools. Interest is growing in the molecular biology of abiotic stress tolerance and modes of installing better tolerant mechanisms in crop plants. Current studies make plants capable of sustaining their yields even under stressful conditions. Further, this information may form the basis for its application in biotechnology and bioinformatics.

Plant Physiology, Development and Metabolism - Satish C Bhatla 2018-11-28
This book focuses on the fundamentals of plant physiology for undergraduate and graduate students. It consists of 34 chapters divided into five major units. Unit I discusses the unique mechanisms of water and ion transport, while Unit II describes the various metabolic events essential for plant development that result from plants’ ability to capture photons from sunlight, to convert inorganic forms of nutrition to organic forms and to synthesize high energy molecules, such as ATP. Light signal perception and transduction works in perfect coordination with a wide variety of plant growth regulators in regulating various plant developmental processes, and these aspects are explored in Unit III. Unit IV investigates plants’ various structural and biochemical adaptive mechanisms to enable them to survive under a wide variety of abiotic stress conditions (salt, temperature, flooding, drought), pathogen and herbivore attack (biotic interactions). Lastly, Unit V addresses the large number of secondary metabolites produced by plants that are medicinally important for mankind and their applications in biotechnology and agriculture. Each topic is supported by illustrations, tables and information boxes, and a glossary of important terms in plant physiology is provided at the end.
Introduction to Plant Physiology - William G. Hopkins 2009
Textbook, concepts, experimental data.
Plant Physiology - S. N. Pandey 1993

Engineering the Environment - David P. D. Munns 2017-05-30
This is the first history of phytotrons, huge climate-controlled laboratories that enabled plant scientists to experiment on the environmental causes of growth and development of living organisms. Made possible by computers and other modern technologies of the early Cold War, such as air conditioning and humidity control, phytotrons promised an end to global hunger and political instability, spreading around the world to thirty countries after World War II. The United States built nearly a dozen, including the first at Caltech in 1949. By the mid-1960s, as support and funding for basic science dwindled, phytotrons declined and ultimately disappeared—until, nearly thirty years later, the British built the Ecotron to study the impact of climate change on biological communities. By recalling the forgotten history of phytotrons, David P. D. Munns reminds us of the important role they can play in helping researchers unravel the complexities of natural ecosystems in the Anthropocene.

Plant Physiology - Frank B. Salisbury 1969
The marvel of plant function; The water milieu; Energy relations and diffusion; Reactive surfaces; Osmosis and the components of water potential; Transpiration and heat transfer; The ascent of sap; Transport across membranes; The translocacion of solutes; Mineral nutrition of plants; Ensymes, proteins, and amino acids; Carbohydrates and related compounds; Photosynthesis; Carbon dioxide fixation and photosynthesis in nature; Respiration; Metabolism and functions of nitrogen and sulfur; Nucleic acids, proteins, and the genetic code; Functions and metabolism of plant lipids and aromatic compounds; Growth and the problems morphogenesis; Mechanisms and problems of developmental control; Plant hormones and growth regulators; Differentiation; Photomorphogenesis; The biological clock; Responses to low temperature and related phenomena; Photoperiodism and the physiology of flowering; Reproduction, maturation, and senescence; Plant physiology in agriculture; Physiological ecology.
Introduction to Plant Physiology - William G. Hopkins 2004
Cells, tissues, and organs: the architecture of plants; The plant cell building blocks: lipids, proteins, and carbohydrates; Lipids are a class of molecules that includes fats, oils, sterols, and pigments; Proteins playa central role in the biochemistry of cells and are responsible for virtually all the properties of life as we know it; Carbohydrates are the most abundant class of biological molecules; Biological membranes; The membrane lipid forms a bilayer, a highly fluid but very stable structure; Membranes contain significantamounts of protein; Cellular organelles; Most mature plant cells contain a large, central vacuole; The nucleus is the information center of the cell; The endoplasmic reticulum and golgi apparatus are centers of membrane biosynthesis and secretory activities; The mitochondrion is the principal site of cellular respiration; Plastids are a family of organelles with a variety of functions; Microbodies are metabolically very active; Cytoskeleton the extracellular matrix; The primary cell wall is a flexible n etwork of cellulose microfibrils and cross-linking glycans; The cellulose-glycan lattice is embedded in a matrix of pectin and protein; Cellulose microfibrils are assembled at the plasma membrane as they are extruded into the cell wall; The secondary cell wall is deposited on the inside of the primary wall in maturing cells; Plasmadesmata are cytoplasmic channels extend through the wall to connect the protoplasts of adjacent cells; Tissues and organs; Tissues are groups of cells that form organized, functional unit; Meristems are regions of perpetually dividing cells; Parenchyma is the most abundant living tissue in plants; Supporting tissues are distributed throughout the primary and secondary plant bodies; Vascular tissues are the principal conducting tissues for water and nutrients ; Epidermis is a superficial tissue that f orms a continuous layer over the surface of the primary; Plant body; Plant organs; Roots anchor the plant and absorb water and minerais from the soil.
Topics in Hydrometerology - Theodore Hromadka 2019-05-29
The field of hydrometeorology bridges across both meteorology and hydrology. In this book, multiple experts present their work on various topics that fall under the purview of hydrometeorology. The chapters will provide readers with some of the latest developments and applications across different regions of the world and will motivate the audience to investigate other areas in hydrometeorology.
Blueberries, 2nd Edition - Jorge B Retamales 2018-08-01
Blueberry cultivation has increased dramatically as production has shifted into new regions. Blueberries are now widely available as food and also processed to be used in medicine and pharmaceuticals for their antioxidant properties. This new and updated edition covers the major topics of interest to blueberry breeders and researchers including botany, physiology, nutrition, growth regulation, photosynthesis, environment, weeds, pests, diseases and postharvest management. The main focus is on the most important cultivated species, the highbush blueberry, although information on other blueberries and related species is also provided. It is an essential resource for soft fruit researchers, extension workers, academics, breeders, growers, and students.
Plant Physiology - Hans Mohr 2012-12-06
In this comprehensive and stimulating text and reference, the authors have succeeded in combining experimental data with current hypotheses and theories to explain the complex physiological functions of plants. For every student, teacher and researcher in the plant sciences it offers a solid basis for an in-depth understanding of the entire subject area, underpinning up-to-date research in plant physiology. The authors vividly explain current research by references to experiments, they cite original literature in figures and tables, and, at the end of each chapter, list recent references that are relevant for a deeper analysis of the topic. In addition, an abundance of detailed and informative illustrations complement the text.
Plant Physiology in Relation to Horticulture - 2014

Introductory Plant Physiology 2Nd Ed. - Noggle

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Concepts in Photobiology - G.S. Singhal 2012-12-06
Photobiology is an important area of biological research since a very large number of living processes are either dependent on or governed by light that we receive from the Sun. Among various subjects, photosynthesis is one of the most important, and thus a popular topic in both molecular and organismic biology, and one which has made a considerable impact throughout the world since almost all life on Earth depends upon it as a source of food, fuel and oxygen. However, for growth of plants, light is equally essential, and research on photomorphogenesis has revealed exciting new developments with the application of newer molecular biological approaches. The present book brings together and integrates various aspects of photosynthesis, biology of pigments, light regulation of chloroplast development, nuclear and chloroplast gene expression, light signal transduction, other photomorphogenetic processes and some photoecological aspects under one cover. The chapters cover biochemical and molecular discussions of most of the above topics in a comprehensive manner and include a wide range of `hot topics' that are currently under investigation in the field of photobiology of cyanobacteria, algae and plants. The authors of this book are selected international authorities in their fields from USA, Europe, Australia and Asia. The book is designed primarily to be used as a text book by graduates and post-graduates. It is, however, also intended to be a resource book for new researchers in plant photobiology. Several introductory chapters are designed as suitable reading for undergraduate courses in integrative and molecular biology, biochemistry and biophysics.
Photoperiodism in Plants - Brian Thomas 1996-10-17
Photoperiodism is the response to the length of the day that enables living organisms to adapt to seasonal changes in their environment as well as latitudinal variation. As such, it is one of the most significant andcomplex aspects of the interaction between plants and their environment and is a major factor controlling their growth and development. As the new and powerful technologies of molecular genetics are brought to bear on photoperiodism, it becomes particularly important to place new work in the context of the considerable amount of physiological information which already exists on the subject. This innovative book will be of interest to a wide range of plant scientists, from those interested in fundamental plant physiology and molecular biology to agronomists and crop physiologists. Provides a self-sufficient account of all the important subjects and key literature references for photoperiodism Includes research of the last twenty years since the publication of the First Edition Includes details of molecular genetic techniques brought to bear on photoperiodism
Finding Your Irish Ancestors - David S. Ouimette 2005
Finding Your Irish Ancestors: A Beginner's Guide is the ultimate resource to help you trace your Irish roots back to the Emerald Isle. Find the many Irish family history records that have become available in recent years. Explore the best family history sources in Ireland, including birth, marriage, and death records; church records; census records; and much more. Discover Internet sites for searching Irish heritage. Prepare for a successful family history trip to Ireland.
Physiology of Trees - A. S. Raghavendra 1991-11-08
Growth and development. Ecological responses. Special topics and applications.
Horticultural Reviews - Ian Warrington 2017-12-18
Horticultural Reviews presents state-of-the-art reviews on topics in horticultural science and technology covering both basic and applied research. Topics covered include the horticulture of fruits, vegetables, nut crops, and ornamentals. These review articles, written by world authorities, bridge the gap between the specialized researcher and the broader community of horticultural scientists and teachers.
Imaging Spectrometry -- a Tool for Environmental Observations - Joachim Hill 2007-08-19
The technique of imaging spectrometry has now passed its infancy and entered into a new phase of application oriented research. Advanced sensor systems (such as Nasa/JPL's AVIRIS) have become available for international research programmes (MAC Europe 1991), new imaging spectrometers are under development in several European countries or have already passed their acceptance tests, and first high spectral resolution imaging systems are already operated by private industry. On European level, the EARSEC programme of the Joint Research Centre has provided considerable financial investments for the development of an imaging spectrometer which covers the reflective and important parts of the emissive spectrum (DAIS-7915), and the European Space Agency has initiated an important airborne remote sensing campaign (EMAC 1994/95) in which imaging spectrometry will constitute one of the most important components. The increasing sensor capabilities also reflect the fact that imaging spectrometry has advanced in many application fields of earth remote sensing. Progress has been made in the development of data pre-proeessing methods, spectral signature modeling and semi-empirical approaches for retrieving surface parameters. It therefore appeared important to further disseminate information about new approaches in the application-oriented analysis of imaging spectrometry data. This volume presents the lectures of the second EUROCOURSE on imaging spectrometry which was held in November 1992 at the Joint Research Centre (a first course on "Fundamentals and Prospective Applications" of imaging spectrometry had been organised in October 1989, the lectures being published as EUROCOURSES in Remote Sensing, vol. 2).
Ground Improvement Case Histories - Buddhima Indraratna 2015-05-28
Written by an international group of experts, Ground Improvement Case Histories: Chemical, Electrokinetic, Thermal and Bioengineering Methods provides over 700 pages of case-histories collected from all over the world. Each case-history provides an overview of the specific technology followed by applications, and in some cases, comprehensive back analysis through numerical modelling is discussed. The book includes methods for employing bacterial and biological treatment, and native vegetation for stabilizing problematic soils. Specific case-histories included in the book are: Effect of Drainage and Grouting for the World Longest Seikan Undersea Tunnel Construction, Cement/lime Mixing Ground Improvement for Road Construction on Soft Ground, Use of Jet Grouting in Deep Excavations, and Stabilization of Reactive Sulphide Mine Tailings using Water Cover Technology. Provides recent case histories using chemical and bio-engineering methods by world-renowned engineering experts Includes over 200 illustrations and 150 equations from relevant topics, including state-of-the-art chemical and bioengineering methods Presents comprehensive analysis methods using numerical modelling methods Case histories include the "Effect of Drainage and Grouting on the World's Longest Seikan Undersea Tunnel Construction" and "Cement/Lime Mixing Ground Improvement for Road Construction on Soft Ground"
Biomass as Energy Source - Erik Dahlquist 2013-03-25
Global energy use is approximately 140 000 TWh per year. Interestingly, biomass production amounts to approximately 270 000 TWh per year, or roughly twice as much, whereas the official figure of biomass use for energy applications is 10-13% of the global energy use. This shows that biomass is not a marginal energy resource but more than capable of
Minimally Processed Refrigerated Fruits and Vegetables - Fatih Yildiz 2017-05-11
The first edition of Minimally Processed and Refrigerated Fruits and Vegetables, edited by Robert C. Wiley and Fatih Yildiz, was published in 1994. At the time of publication, this was a new concept and was well-received by the scientific community. Minimally processed foods are whole plant tissues (the identity of the plant tissue is recognized by consumers), which may contain active enzymes, live tissues, and plant cells. These are some of the basics for the healthy food design. The overall function of these foods is to provide convenient (ready-to-serve, ready-to cook, free of any pesticides and contaminants),like-fresh products for food service and retail consumers. Minimally Processed and Refrigerated Foods (MPR) have been popular in many countries. The following are some of the advantages offered by MPR produce foods: 1. Ease of portion control in the food service industry 2. Lower transportation cost (all inedible portions of the produce are removed prior to transportation) 3. No waste is generated at the point of consumption 4. Utilization and recycling of the waste is much easier 5. Value-added new fruit and vegetable products and meal development is possible and easy 6. No requirement is needed for phytosanitary control during trade 7-No glycation end products formation during processing, 8.Degree of food processing is minimized for optimal health of human, the processing plant for MPR produce, which is not addressed in any other books on this topic, will be described in this second edition. Also, comparison of minimal processing technologies with other technologies was explained in the first publication and will be updated in this second edition. During the last 200 years the purpose of food processing was a-safety(sterilization, Pasteurization,1804 Nicholas Apert,Pasteur 1867), and b-prevention of deficiency diseases(Enrichments),but MPR foods

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provides a two new dimensions to food processing ; a-Prevention of chronic diseases(bioactive compounds) and b-Optimum health (functional foods,Superfoods,Neutraceuticals, and Medical foods) for human.

Agroforestry for Natural Resource Management - Brendan Hugh George 2009

Illustrates the principles underlying the integration of trees into landscapes for environmental and productive purposes.

Microbial Safety of Minimally Processed Foods - Vijay K. Juneja 2002-12-03

While minimally processed foods satisfy the increasing market demands for foods with fewer preservatives, higher nutritive value, and fresh sensory attributes, there is a greater risk of diseases if they are improperly handled. Microbial Safety of Minimally Processed Foods explores innovative preventative solutions to food-borne diseases from the perspectives of the producer, the handler, the consumer, the food preparer, as well as the food inspector, and researcher. This book provides you with the latest research and insight into assuring the microbial safety of red meats, poultry, fish, vegetables, fruits, and bakery products that receive less than stringent sterilizing preparation. It explores and describes the methods used for pathogen detection along with strategies for preventing future pathogen occurrences in the minimally processed foods. The book also provides in-depth evaluations of HACCP regulations and risk assessments of those minimally processed foods. Designed to stimulate the development of increasingly safer foods, Microbial Safety of Minimally Processed Foods details state-of-the-art technologies that have the potential to enhance microbiological safety of minimally processed foods without sacrificing their natural, untreated visual appearance and sensory properties.

Plant Physiology - Lincoln Taiz 2002-01-01

This third edition provides the basics for introductory courses on plant physiology without sacrificing the more challenging material sought by upper division and graduate level students. The text contains many new or revised figures and photographs, all in full colour. A website, referenced throughout the text, includes additional study questions, WebTopics (elaborating on selected topics discussed in the text), WebEssays (discussions of cutting edge research topics, written by those who did the work) and additional suggestions for further reading. Key pedagogical changes to the text result in a shorter book. Advanced material from the second edition has been removed and posted at an affiliated Web site, while many new or revised figures and photographs, study questions and a glossary of key terms have been added. Despite the streamlining of the text, the third edition incorporates all the important developments in plant physiology, especially in cell, molecular and developmental biology.

Plant Physiology: Theory and Applications - S. L. Kochhar 2020-12-03

This edition provides a comprehensive overview of the rapidly advancing field of plant physiology, supplemented with experimental exercises.

The Global Carbon Cycle and Climate Change - David E. Reichle 2019-11-12

The Global Carbon Cycle and Climate Change examines the global carbon cycle and the energy balance of the biosphere, following carbon and energy through increasingly complex levels of metabolism from cells to ecosystems. Utilizing scientific explanations, analyses of ecosystem functions, extensive references, and cutting-edge examples of energy flow in ecosystems, it is an essential resource to aid in understanding the scientific basis of the role played by ecological systems in climate change. This book addresses the need to understand the global carbon cycle and the interrelationships among the disciplines of biology, chemistry, and physics in a holistic perspective. The Global Carbon Cycle and Climate Change is a compendium of easily accessible, technical information that provides a clear understanding of energy flow, ecosystem dynamics, the biosphere, and climate change. "Dr. Reichle brings over four decades of research on the structure and function of forest ecosystems to bear on the existential issue of our time, climate change. Using a comprehensive review of carbon biogeochemistry as scaled from the physiology of organisms to landscape processes, his analysis provides an integrated discussion of how diverse processes at varying time and spatial scales function. The work speaks to several audiences. Too often students study their courses in a vacuum without necessarily understanding the relationships that transcend from the cellular process, to organism, to biosphere levels and exist in a dynamic atmosphere with its own processes, and spatial dimensions. This book provides the template whereupon students can be guided to see how the pieces fit together. The book is self-contained but lends itself to be amplified upon by a student or professor. The same intellectual quest would also apply for the lay reader who seeks a broad understanding." --W.F. Harris| Deputy Assistant Director, Biological Sciences, National Science Foundation (Retired); Associate Vice Chancellor for Research, University of Tennessee, Knoxville (Retired) Provides clear explanations, examples, and data for understanding fossil fuel emissions affecting atmospheric CO2 levels and climate change, and the role played by ecosystems in the global cycle of energy and carbon Presents a comprehensive, factually based synthesis of the global cycle of carbon in the biosphere and the underlying scientific bases Includes clear illustrations of environmental processes

An Introduction to Crop Physiology - F. L. Milthorpe 1980-01-24

This 1974 book was made available as a second edition in 1979. It provides an understanding of the ways in which the various physiological processes are integrated to produce the responses shown by whole plants growing in the variable environment in the field, whilst stressing the quantitative aspects of these relationships. This was the first general text to attempt such a treatment, thereby digesting much material that had been found only in research papers or detailed monographs and complementing the reductionist approach of most standard texts of plant physiology. Most of the subject matter concerns agricultural systems, but many of the concepts and approaches are applicable to more complex natural ecosystems. Emphasis is placed on integrating knowledge from many sources and on trying to assess quantitatively the importance of each component. The result is a comprehensive account making the book a valuable background for all interested in the study of plants in the field.

Fundamentals of Plant Physiology - Lincoln Taiz 2018

A condensed version of the best-selling Plant Physiology and Development, this fundamentals version is intended for courses that focus on plant physiology with little or no coverage of development. Concise yet comprehensive, this is a distillation of the most important principles and empiricalfindings of plant physiology.

Principles of Soil and Plant Water Relations - M.B. Kirkham 2014-04-21

Principles of Soil and Plant Water Relations, 2e describes the principles of water relations within soils, followed by the uptake of water and its subsequent movement throughout and from the plant body. This is presented as a progressive series of physical and biological interrelations, even though each topic is treated in detail on its own. The book also describes equipment used to measure water in the soil-plant-atmosphere system. At the end of each chapter is a biography of a scientist whose principles are discussed in the chapter. In addition to new information on the concept of celestial time, this new edition also includes new chapters on methods to determine sap flow in plants dual-probe heat-pulse technique to monitor water in the root zone. Provides the necessary understanding to address advancing problems in water availability for meeting ecological requirements at local, regional and global scales Covers plant anatomy: an essential component to understanding soil and plant water relations

Research Methodology and Scientific Writing - C. George Thomas 2021-03-28

This book presents a guide for research methodology and scientific writing covering various elements such as finding research problems, writing research proposals, obtaining funds for research, selecting research designs, searching the literature and review, collection of data and analysis, preparation of thesis, writing research papers for journals, citation and listing of references, preparation of visual materials, oral and poster presentation in conferences, and ethical issues in research . Besides introducing library and its various features in a lucid style, the latest on the use of information technology in retrieving and managing information through various means are also discussed in this book. The book is useful for students, young researchers, and professionals.

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