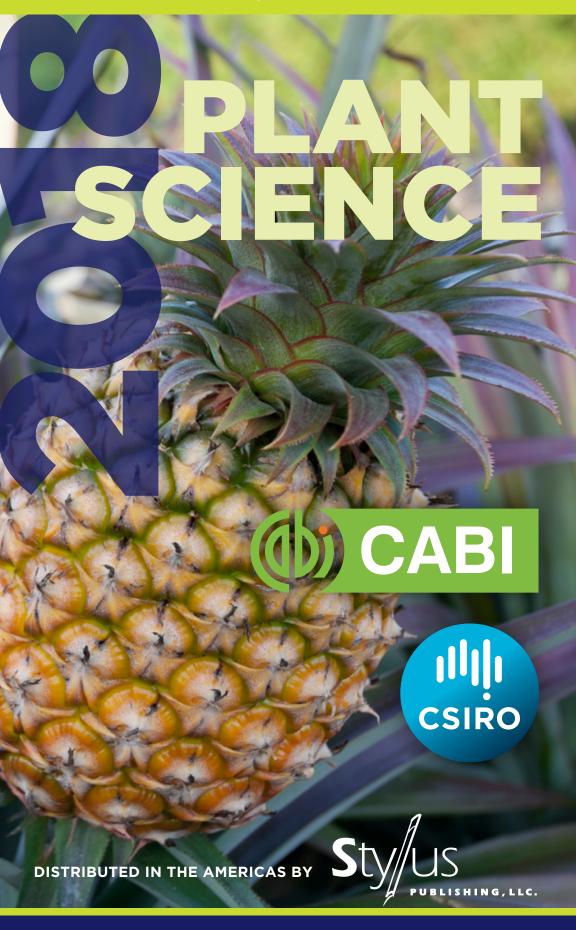
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BOTANY & HORTICULTURE

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Sustainable Bamboo Development

Z. Zhu and W. Jin

This book presents over 40 cases of bamboo development from across 22 major bamboo-industry



countries and explores the knowledge gained from their successes and failures. It synthesizes experiences and exchanges with country experts from international training courses, study tours, and seminars. Each case includes detailed observations and summaries of discussions related to the development of bamboo-based industries in a healthy, sustainable way to facilitate the strategic and balanced development of the bamboo sectors in different global regions. Industrial and artisanal bamboo growing and processing is expanding worldwide, and this book collates key experiences to inform future developments.

320 pp, 6 3/4" x 9 3/5" Cloth, Apr 2018, 978 1 78639 401 9, \$175.00



Invasive Plant Species

of the World

NEW!

Invasive Plant Species of the World

A Reference Guide to Environmental Weeds



Ewald Weber

Globally relevant, this book is a full-color reference guide to the major invasive plants. It includes fifty extra species since the first edition, covering a total of over 500 economically and environmentally important plants. This book provides a complete resource on the subject, supplying illustrations, synonyms, geographical distribution, habitats invaded, morphology, ecology and references for each species.

With revised and updated species ranges presented as full color maps, this new edition includes newly established or improved control methods for each species. It also contains increased ecology and impact information,

making this book an invaluable source of information for researchers in plant ecology, nature conservation, biological control, weed science and environmental management. Also an informative read for policy makers and practitioners, this book will additionally be a useful resource for developmental organizations and public health services concerned with invasive plants.

596 pp, 8 5/8" x 11", illus & maps Cloth, 2017, 978 1 78064 386 1, \$320.00



COMING SOON

The Himalayan Soap Pod Tree (Gymnocladus assamicus)

An Ecologically and Economically Important Tree on the Brink of Extinction



Baharul I. Choudhury and Mohammed L. Khan

Gymnocladus assamicus is an archaic tree endemic to the Eastern Himalayan region of Northeast India. Locally known as "Menangmanba-shi" by the Monpa tribe of Arunachal Pradesh (India), mature G. assamicus pods contain high saponin and are used traditionally for cleansing purposes and rituals.

Major intrinsic and extrinsic factors that might be responsible for population decline are described. More importantly, the book highlights a very rare mating system known as "androdioecy" in which male and hermaphrodite individuals co-exist in the natural population. Overall, the book highlights the story of a critically endangered tree species with a unique biological and socio-cultural importance and will serve as a case study and reference for other similar species both locally and globally.

180 pp, 6 1/4" x 9 1/5" Cloth, Feb 2019, 978 1 78639 198 8, \$160.00

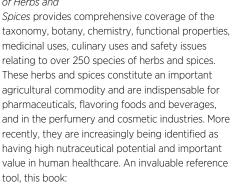


The **Encyclopedia** of Herbs and Spices

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P. Ravindran

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- · Presents easily accessible information, including up-to-date nomenclature and taxonomy
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1128 pp, 8 5/8" x 11", illus Cloth, Feb 2018, 978 1 78064 315 1, \$660.00



MEDICINAL PLANTS

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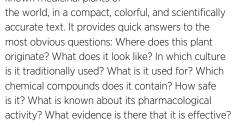
NEW!

Medicinal Plants of the World

REVISED EDITION

Ben-Erik van Wyk and Michael Wink

This reference gives the reader a bird's eye view of more than 350 of the best known medicinal plants of



The authors also provide short overviews of the various health conditions for which medicinal plants are used and the active compounds (secondary metabolites) found in the plants and their modes of actions.

520 pp, 6 5/8" x 9 2/5", color photos Cloth, 2017, 978 1 78639 325 8, \$50.00



Leafy Medicinal Herbs

Botany, Chemistry, Postharvest Technology and Uses

Edited by Dawn C. P. Ambrose, Annamalai Manickavasagan and Ravindra Naik



This book compiles the literature for 23 of the most globally relevant leafy medicinal herbs. Beginning with a general overview and discussion of the importance of these plants, it then handles each herb by chapter. Chapters discuss the botany of the crop, including its history and origin, geographical distribution and morphology, before focusing on the chemical composition and phytochemical aspects. They then review postharvest technology such as processing and value addition, before concluding with the general and pharmacological uses for each crop.

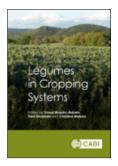
312 pp, 6 3/4" x 9 3/5", illus Cloth, 2016, 978 1 78064 559 9, \$160.00



NEW!

Legumes in Cropping **Systems**

Edited by Donal Murphy-Bokern, Fred Stoddard and Christine Watson



Based on contributions from members of the

Legumes Future research consortium, in addition to those working outside of the project, this book acts as a complete and coherent overarching review of legume research. The authors describe current knowledge relating to the use of legumes in cropping systems, in addition to looking towards future research including challenges and opportunities. In each chapter the authors provide insight into the relevant literature to help support understanding and provide insight into the underlying processes that influence cropping system development.

270 pp, 6 3/4" x 9 3/5", full-color illus Cloth, 2017, 978 1 78064 498 1, \$140.00



Plant Biodiversity

Monitoring, Assessment and Conservation

Edited by Abid A. Ansari and Sarvajeet S. Gill

Conservation

biologists use the results of regular monitoring of the species diversity and structure of plant communities to help understand the impacts of perturbations caused by humans and other environmental factors on ecosystems worldwide. Changes in plant communities can, for example, be a reflection of increased levels of pollution, a response to long-term climate change, or the result of shifts in land-use practices by the human population.

PLANT

BIODIVERSITY

This book presents a series of essays on the application of plant biodiversity monitoring and assessment to help prevent species extinction and ecosystem collapse and to solve problems in biodiversity conservation. Written by a large, international team of researchers, *Plant Biodiversity* uses case studies and examples from all over the world and from a broad range of terrestrial and aquatic ecosystems.

628 pp, 7 1/2" x 9 5/8", tables, figs & b/w photos Cloth, 2017, 978 1 78064 694 7, \$250.00



Plant Stress

Physiology

Plant Stress Physiology

SECOND EDITION

Edited by Sergey Shabala

Completely updated from the successful first edition, this book provides a timely review



This second edition of *Plant Stress Physiology*: presents detailed, up-to-date research on plant responses to a wide range of stresses; includes new, full-color figures to illustrate the principles outlined in the text; and is written in a clear and accessible format with descriptive abstracts for each chapter.

376 pp, 6 3/4" x 9 3/5", figures, tables & color photos
Cloth, 2017, 978 1 78064 729 6, \$160.00

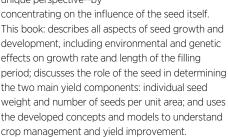


Seed Biology and Yield of Grain Crops

SECOND EDITION

Dennis B. Egli

This new edition of an established title examines the determination of grain crop yield from a unique perspective--by



SEED BIOLOG

AND YIELD OF

GRAIN CROPS

Substantially updated with new research and further developments of the practical applications of the concepts explored, this book is essential reading for those concerned with seed science and crop yield, including agronomists, crop physiologists, plant breeders, and extension workers.

232 pp, 6 1/8" x 9 1/5", graphs Cloth, 2017, 978 1 78064 770 8, \$140.00



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Fungi of Australia



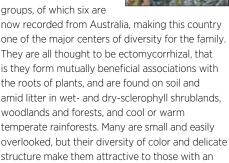
Fungi of Australia

Inocybaceae

eye for detail.

P. Brandon Matheny and Neale L. Bougher

Phylogenetic work shows that the family can be divided into seven main groups, of which six are



This authoritative account provides a major advance in knowledge for this diverse and widespread group with detailed descriptions, identification keys, and phylogenetic trees based on DNA sequences generated during the work. Every species is illustrated with colored plates and/or line drawings of microscopic features.

Fungi of Australia Series 592 pp, 6 7/8" x 9 4/5", color photos & illus Cloth, 2017, 978 1 4863 0666 4, \$179.95



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BOTANY, PRODUCTION AND USES SERIES

COMING SOON

The Pineapple

Botany. Production and Uses

SECOND EDITION

Edited by Garth M. Sanewski, Duane P. Bartholomew and Robert E. Paull



Completely updated with new content and fullcolor figures throughout, the second edition of this successful book continues to provide comprehensive coverage relating to pineapple breeding, production and yield. It: contains new chapters on organic production and production for other uses (fibre and ornamentals); includes major updates to content on biotechnology, breeding, and variety improvements; explores physiological changes associated with the year-round growing of pineapple in addition to the associated cultural practices and mineral nutrition; considers the impact of climate change and environmental issues on pineapple crops, and relevant mitigation strategies; and looks at the effect of new cultivars and new technologies on cultural practices

264 pp, 6 3/4" x 9 3/5", full-color illus Cloth, Oct 2018, 978 1 78639 330 2, \$190.00



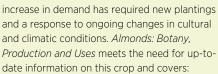
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Almonds

Botany. Production and Uses

Edited by Rafel Socias i Company and Thomas M. Gradziel

The popularity of almonds and the



- · Botany and taxonomy
- Cultivation, genetics, and breeding
- · Propagation, orchard management, and harvesting
- · Pests and diseases
- · Nutrition, marketing, and utilization

510 pp, 6 3/4" x 9 3/5", tables, graphs & color photos Cloth, 2017, 978 1 78064 354 0, \$205.00



NEW!

Cherries

Botany, Production and Uses

Edited by José Quero-Garcia, A. lezzoni, Joanna Pulawska and **Gregory Lang**



Sweet and sour

cherries (Prunus avium and Prunus cerasus) are important fruit crops for which demand is high and growing. A significant number of new varieties, rootstocks, and training systems have been released or developed in recent years in order to improve the efficiency and profitability of cherry orchards.

Cherries: Botany, Production and Uses covers the genetics, ecophysiology, production, protection, and uses of cherries. Presenting up-to-date, scientific data and applied information, this book is invaluable for researchers, teachers, and all professionals working in the cherries value chain.

550 pp, 6 3/4" x 9 3/5", tables & color photos Cloth, 2017, 978 1 78064 837 8, \$205.00



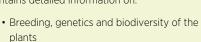
The Lime

Botany, Production and Uses

Edited by M. Mumtaz Khan, Rashid Al-Yahvai and Fahad Al-Said

The Lime: Botany, Production and Uses

contains detailed information on:



- · Processes for establishing a lime orchard and precision agriculture
- Harvesting and post-harvest management
- · Pests and diseases, including knowledge of increasing threats such as Witches' Broom Disease and Citrus Greening

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Environmental Horticulture

Science and Management of Green Landscapes

Ross Cameron and James Hitchmough

This book reflects contemporary thinking and is supported by

scientific evidence to show the role, value and application of horticulture in the landscape. The discipline of environmental horticulture, its importance and impact on the wider environment is explored in the first part, while the second part covers practical horticultural management of different categories of environmental horticulture.

Modular Texts Series 344 pp, 7 1/2" x 9 5/8" Paper, 2016, 978 1 78064 138 6, \$75.00



PERTH

Perth Plants

A Field Guide to the Bushland and Coastal Flora of Kings Park and Bold Park

SECOND EDITION

Russell L. Barrett and **Eng Pin Tay**

Perth Plants provides a

comprehensive photographic guide to all plants known to occur in the bushlands of Kings Park and Bold Park. There are 778 species included--both natural and introduced--representing approximately one quarter of all the plants in the greater Perth region, and one-tenth of all species known for the south-west of Western Australia.

440 pp. 5 4/5" x 8 1/2". 3.764 color photos & 796 maps

Paper, 2016, 978 1 4863 0602 2, \$37.95



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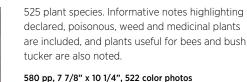
Plants of Central Queensland

Identification and Uses of Native and Introduced Species

Eric Anderson

Plants of Central

Queensland provides a guide for identifying and understanding the plants of the region so that pastoralists and others can be better equipped to manage the vegetation resource of our grazing lands. The book provides information on the habit, distribution, foliage and fruits of



& 281 maps

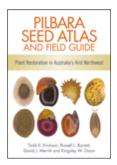
Cloth, 2016, 978 1 4863 0225 3, \$120.00



Pilbara Seed **Atlas and Field** Guide

Plant Restoration in Australia's Arid Northwest

Todd E. Erickson. Russell L. Barrett, David J. Merritt and Kingsley W. Dixon



This is the first book to combine plant identification describing 103 regional plant taxa along with guidelines for effective collection, cleaning, storage and germination of their seeds. It addresses issues such as timing of collection, quality and viability of seed, and dormancy release, which are essential for successful restoration programs.

312 pp, 6 7/8" x 9 4/5", 550 color photos, 281 maps, 13 graphs

Paper, 2016, 978 1 4863 0552 0, \$59.95



Postharvest

An Introduction to the Physiology and Handling of Fruit and Vegetables

SIXTH EDITION

Ron Wills and John Golding

"I can never remember a time when this book was



not on my shelf! It serves as wonderful resource for the practitioner, whether in industry or academia, as well as for students, providing great core information about postharvest science. I am therefore delighted to see this complete revision and sixth edition. Several key updates make this book an even better resource for anyone wanting a thorough understanding of postharvest basics and application."—CHRISTOPHER WATKINS, Professor of Postharvest Science, Cornell University

Completely updated, this broad-based introductory level textbook covers the key concepts and practical technologies to slow the deterioration of harvested produce, including handling, packaging, transport, temperature management and the control of pests and diseases

306 pp, 5 2/5" x 8 1/2", figures & tables Paper, 2016, 978 1 78639 148 3, \$75.00



Strawberry

Growth. Development and Diseases

Edited by Amjad M. Husaini and Davide Neri

This book provides an up-to-date, broad and balanced

review of current research and emerging challenges. It includes coverage from plant propagation, architecture, genetic resources, breeding, abjotic stresses and climate change to evolving diseases and their control. It is written by an international team of specialists, using figures and tables to make the subject comprehensible and informative.

352 pp, 6 3/4" x 9 3/5", color photos, figures & tables

Cloth, 2016, 978 1 78064 663 3, \$175.00



STRAWBERRY

Tropical Forage Legumes

Harnessing the Potential of Desmanthus and Other Genera for Heavy Clay Soils



John R. Lazier and Nazeer Ahmad

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Characteristics, Uses and Identification

Morris Lake

216 pp, 8 1/4" x 11 3/4", 820 color photos Cloth, 2015, 978 1 4863 0179 9, \$69.95



Brassica Oilseeds

Breeding and Management

Edited by Arvind Kumar, Surinder S. Banga, Prabhu Dyal Meena and Priya Ranjan Kumar

280 pp, 6 3/4" x 9 3/5" Cloth, 2015, 978 1 78064 483 7, \$165.95



CROP PRODUCTI

NEW!

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SECOND EDITION

Edited by Ep Heuvelink

This new edition of a successful, practical book provides a comprehensive and accessible overview of all aspects of the production of the tomato crop, within the context of the global tomato industry.



Tomatoes, second edition, covers genetics and breeding, developmental processes, crop growth and yield, fruit ripening and quality, irrigation and fertilization, crop protection, production in the open field, greenhouse production, and postharvest biology and handling. It has been updated to: reflect advances in the field, such as developments in molecular plant breeding and crop yields; include a new chapter on organic tomato production; and present photos in full color throughout.

384 pp, 6 1/8" x 9 1/5", full-color photos throughout

Paper, Aug 2018, 978 1 78064 193 5, \$75.00



COMING SOON

Sweet Cherries

Edited by Lynn Long

This new book provides comprehensive coverage of the history, genetic improvements, production physiology of growth and cropping, orchard establishment and management, and harvest considerations for sustainable cherry production. Sweet cherries are a specialty crop, subject to significant production risks for growers, yet with high potential market returns due to strong consumer demand for the fruit's intensely enjoyable flavor and nutraceutical benefits.

Written by a renowned team of experts, this book emphasizes the scientific principles underlying cherry production practices. It acts as a resource for a scientific foundational understanding of plant growth and cropping, providing the key to both reasoned choice of orchard practices and the solution of future problems. The authors cover improved sweet cherry fruiting varieties and rootstocks, include state-ofthe-art tree training and production systems, and consider production risk management technologies and decisions.

300 pp, 6 3/4" x 9 3/5", color illus Paper, Mar 2019, 978 1 78639 828 4, \$75.00



ON SCIENCE IN HORTICULTURE SERIES

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Grapes

SECOND EDITION

Glenn L. Creasy and Leroy L. Creasy

Fully updated with new content and full-color figures throughout, the second edition of this successful book reflects the impact



of climate change and seasonal management, the expansion of production into new areas, and changing methods of grape production (including organic options). It includes information on wine grapes in addition to grapes for fresh consumption and raisin production.

416 pp, 6 1/8" x 9 1/5", color figures Paper, Sep 2018, 978 1 78639 136 0, \$75.00



NEW!

Blueberries

SECOND EDITION

Jorge B. Retamales and James F. Hancock

Blueberries are cultivated worldwide and this book explores plantings in a great diversity of environments, reflecting on the development



of innovative cultural practices and conditions. It examines the increased scope and depth of research activities related to this crop and brings together the current status of knowledge on blueberry science and management. Explaining in an understandable manner the basic science behind the growth and development of blueberries, their botanical characteristics, as well as the implications and effects of various management practices and environmental conditions, the second edition of *Blueberries* also: highlights emerging genetic information on the blueberry; includes new information on pruning, grafting and irrigation; covers current and potential uses of plant growth regulators; and gathers new information on fruit quality and consumer acceptance.

424 pp, 6 1/2" x 9 1/2", 27 illus Paper, Aug 2018, 978 1 78064 726 5, \$75.00



NEW!

Blackberries and Their Hybrids

Edited by Harvey K. Hall and Richard C. Funt

This practical book provides a



comprehensive and accessible overview of all aspects of the commercial production of blackberries and their hybrids, covering plant growth and development, cultivar description and selection, propagation, pruning, soil and water management, postharvest management, economics and marketing, and pest identification and management. Cultivated blackberries are a relatively new crop, but with new cultivars and cultural practices, they are now grown and available worldwide. Production regions have expanded internationally due to innovative methods showing much promise and evidence of human health benefits.

368 pp, 6 1/8" x 9 1/5", full-color images Paper, 2017, 978 1 78064 668 8, \$75.00



NEW!

Peas and Beans

Anthony Biddle

This practical book provides an accessible overview of all aspects of pea and bean production, including botany and physiology,



breeding, agronomy, weed management, pests and diseases, harvesting, nutritional value and uses. It also reflects on the constraints and opportunities in the future for peas and beans, exploring their role in food sustainability and crop rotation, and various factors affecting supply and demand such as climate change and breeding technologies.

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David J. Midmore

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Gregory E. Welbaum

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Industrial Production and Uses

Edited by Pierre Bouloc, S. Allegret and L. Arnaud

328 pp, 6 3/4" x 9 1/4", 180 illus Paper, 2013, 978 1 84593 792 8, \$85.00



BIOTECHNOLOGY & APPLIED **SCIENCE**

NEW!

Maize Kernel Development

Edited by Brian A. Larkins

This authoritative book acts as a guide to understanding maize kernel development. Written by a team of



experts, it covers topics spanning pre- and postfertilization events, embryo and endosperm development, grain filling and maturation, and factors influencing crop yield. It explores the significance of maize and other cereal grains, existing hypotheses and research, and important gaps in our knowledge and how we might fill them. This is a valuable resource for researchers of maize and other cereals, and anyone working on basic or applied science in the fields of seed development, plant genetics, and crop physiology.

240 pp, 6 3/4" x 9 3/5" Cloth, Jan 2018, 978 1 78639 121 6, \$160.00



NEW!

Emerging Trends in Agri-Nanotechnology

Fundamental and Applied Aspects

Edited by Harikesh Bahadur Singh. Sandhya Mishra,

Leonardo Fernandes Fraceto and Renata D. de Lima



This book opens with a brief history of nanotechnology in agriculture. Applications are then examined in detail, including nanopesticides, nanosensors, nanofertilizers, and nanoherbicides. Topics covered include; the biosynthesis of nanoparticles (through microbes, plants and other biotic agents); the ecological consequences of their delivery into the environment (examining effects and toxicity on soil, soil biota, and plants); safety issues; an overview of the global market for nanotechnology products; and the regulation of nanotechnology in agriculture. The book concludes with speculations on what the future holds for the technology.

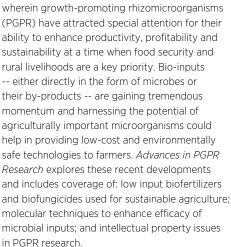
328 pp, 6 3/4" x 9 3/5" Cloth, Jun 2018, 978 1 78639 144 5, \$205.00



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Edited by Harikesh Bahadur Singh, Birinchi Kumar Sarma and Chetan Keswani

Rhizosphere biology is approaching a century of investigations



408 pp, 6 3/4" x 9 3/5" Cloth, 2017, 978 1 78639 032 5, \$225.00



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NEW!

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Molecular Biology to Ecology

Edited by Brian R. Jordan

Ultraviolet-B radiation (UV-B) has profound

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Edited by Gabrielle J. Persley and Vivienne M. Anthony



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new varieties to meet market demands.

strategy and stage plans. It also covers measuring

investments in breeding programs that will deliver

success and making the business case for future



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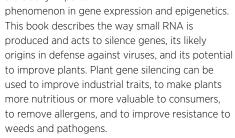
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Principles and Practice

Edited by Qin Zhang

Written by experts in agricultural automation

technology from around the world, chapters in this book cover topics such as automated tree fruit production systems, plant stress sensing and high-throughput phenotyping in precision horticulture, the economics of automation in tree fruit production, light interception sensing systems for canopy management, precision irrigation and water management, precision technologies for pest and disease management, opportunities for the application of robotics in tree fruit production, and the mechanical harvesting and handling of fruit crops.

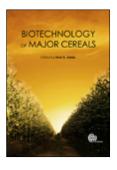
304 pp, 6 3/4" x 9 3/5", 4-color graphs & photos Cloth, 2017, 978 1 78064 850 7, \$205.00



Biotechnology of Major Cereals

Edited by Huw D. Jones

Although maize is currently the only cereal with significant biotech seed sales, advances in the other major cereals outlined



Tree Fruit Production

in this text indicate that rice, wheat, barley and sorghum could soon follow, either using conventional genetic engineering or incorporating the new developments in genome editing. In Biotechnology of Major Cereals, expert authors explain and discuss the latest advances including nuclear and chloroplast transformation, antherculture and gene silencing. There are chapters on current transformation methodologies, key target tissues and trait as well as genome editing and a review of the current mergers and acquisitions in commercial biotechnology.

256 pp, 6 3/4" x 9 3/5", color photos, graphs & charts Cloth, 2016, 978 1 78064 519 3, \$140.00



Enhancing Crop Genepool Use

Capturing Wild Relative and Landrace Diversity for Crop *Improvement*

Edited by Nigel Maxted, Mohammad E. Dulloo and Brian V. Ford-Lloyd



Focusing on characterization techniques, conservation strategies, facilitating CWR and LR use and informatics development, Enhancing Crop Genepool Use highlights exotic plant germplasm as a potentially critical but neglected resource for crop improvement. Novel characterization techniques and conservation strategies to identify and preserve CWR and LR traits to increase options for crop improvement as a means of underpinning food security in the face of climate change are demonstrated, and the current status and future enhanced utilization of CWR and LR diversity for improving agricultural production and sustaining the environment are explored.

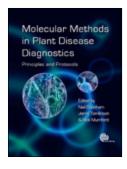
480 pp, 6 3/4" x 9 3/5", tables, figures & color illus Cloth, 2016, 978 1 78064 613 8, \$225.00



Molecular **Methods in Plant Disease Diagnostics**

Principles and Protocols

Edited by N. Boonham, J. Tomlinson and R. Mumford



This book provides protocols for nucleic acidbased methods currently applied to plant pathogen detection and identification. It takes the practitioner through the full range of molecular diagnostic and detection methods, and, as these generic techniques are appropriate for use on any target with minimal modification, also provides a useful resource for students of plant pathology and plant pathologists. Beginning with the background and future directions of the science, it then addresses DNA barcoding, microarrays, polymerase chain reactions (PCR), quality assurance and more, forming a complete reference on the subject.

212 pp, 7 1/2" x 9 5/8" Cloth, 2016, 978 1 78064 147 8, \$125.00



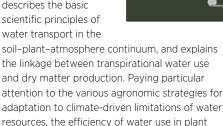
Water Dynamics in Plant **Production**

SECOND EDITION

Wilfred Ehlers and Michael Goss

This new edition describes the basic scientific principles of

presented in detail.



production and in achieving an economic yield is

392 pp, 6 3/4" x 9 3/5" Paper, 2016, 978 1 78064 382 3, \$75.00



in Plant Production

Abiotic Stresses in Crop Plants

Edited by Usha Chakraborty and Bishwanath Chakraborty

278 pp, 6 3/4" x 9 3/5" Cloth, 2015, 978 1 78064 373 1, \$165.95



Amino Acids in Higher Plants

Edited by J. P. F. D'Mello

632 pp, 8 5/8" x 11 3/4", graphs & charts Cloth. 2015. 978 1 78064 263 5. \$301.95



Analytical Techniques for Natural Product Research

Satyanshu Kumar

256 pp, 6 3/4" x 9 3/5" Cloth, 2015, 978 1 78064 473 8, \$129.95

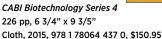


Bt Resistance

Characterization and Strategies for GM Crops Expressing Bacillus thuringiensis Toxins

Edited by Mario Soberón, Yulin Gao and Alejandra Bravo

TO ORDER:





Fruit Ripening

Physiology, Signalling and Genomics

Edited by Pravendra Nath, Mondher Bouzayen, Jean Claude Pech and Autar K. Mattoo

340 pp, 6 3/4" x 9 3/5", figures & photos Cloth, 2014, 978 1 84593 962 5, \$186.95



Phytochemicals of **Nutraceutical Importance**

Edited by Dhan Prakash and Girish Sharma

376 pp, 6 3/4" x 9 3/5" Cloth, 2014, 978 1 78064 363 2, \$249.95



Plant Adaptation to Environmental Change

Significance of Amino Acids and their Derivatives

Edited by Naser A. Anjum, Sarvajeet S. Gill and Ritu Gill

344 pp, 6 3/4" x 9 1/4", tables & figures Cloth, 2014, 978 1 78064 273 4, \$228.95



Plants as a Source of Natural **Antioxidants**

Edited by Nawal Kishore Dubey

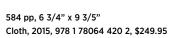
320 pp, 6 3/4" x 9 3/5", figures, tables & photos Cloth, 2015, 978 1 78064 266 6, \$165.95

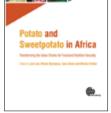


Potato and Sweetpotato in **Africa**

Transforming the Value Chains for Food and Nutrition Security

Edited by Jan Low, Moses Nyongesa, Sara Quinn and Monica Parker







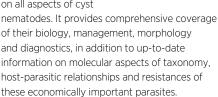
PESTS & PEST MANAGEMENT

NEW!

Cyst Nematodes

Edited by Roland N. Perry, Maurice Moens and John T. Jones

This book is a compendium of current information on all aspects of cyst



456 pp, 6 3/4" x 9 3/5" Cloth, May 2018, 978 1 78639 083 7, \$225.00



A HISTORY

ESTICIDES

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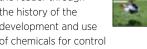
ématodes

COMING SOON

A History of **Pesticides**

Graham A. Matthews

In this fascinating book, Graham Matthews takes the reader through the history of the development and use of chemicals for control of pests, weeds, and vectors of disease.



While the use of pesticides has undoubtedly lead to significant gains in agricultural production and reduction in disease transmission, it has also led to major problems: health concerns for both users of pesticides and the general public, the emergence of resistance in pest populations, and environmental problems.

The book examines the development of legislation designed to control and restrict the use of pesticides, and the emergence of Integrated Pest Management (IPM) and the use of biological control agents as part of policy to protect the environment and encourage the sustainable use of pesticides. Finally, the use of new technologies in pest control are discussed including the use of genetic modification, targeted pesticide application, and the use of drones, alongside basic requirements for IPM, including crop rotations, closed seasons and adoption of plant varieties with resistance to pests and diseases.

280 pp, 6 3/4" x 9 3/5" Cloth, Oct 2018, 978 1 78639 487 3, \$160.00



NEW!

Handbook of Pest Management in **Organic Farming**

Edited by Vincenzo Vacante and Serge Kreiter

This book is an up-to-date and comprehensive reference covering pest management in organic farming in major



crops of the world. General introductory chapters explore the management of crops to prevent pest outbreaks, plant protection tools in organic farming, and natural enemies and pest control. The remaining chapters are crop-based and discuss geographic distribution, economic importance and key pests. For each pest the fundamental aspects of its bio-ecology and the various methods of control are presented. Understanding of the scientific content is facilitated with practical advice, tables and diagrams, helping users to apply the theories and recommendations.

576 pp, 6 3/4" x 9 3/5" Cloth, 2017, 978 1 78064 499 8, \$290.00



NEW!

Plant Parasitic Nematodes in Subtropical and Tropical Agriculture

THIRD EDITION

Edited by R. Sikora, D. L. Coyne, J. Hallmann and P. Timper



Covering all aspects of practical plant nematology in subtropical and tropical agriculture, the third edition of this definitive global reference work is fully revised and in full color throughout. It covers the major food and cash crops including; rice, cereals, solanum and sweet potatoes and other root and tuber crops, food legumes, vegetables, peanut, citrus, tree and fruit crops, coconut and other palms, coffee, cocoa, tea, bananas, sugarcane, tobacco, pineapple, cotton, other tropical fibers, spices, condiments and medicinal plants.

New content in this edition includes:

- A chapter on nematode soil biodiversity in health
- Reflections on the impact of nematodes on food security, climate change interactions and alternatives to pesticides, small subsistence growers and organic agriculture
- Significant revisions to the IPM chapter and chapters on vegetables, citrus, legumes, tuber crops, cotton, peanut and banana where major advances in IPM have occurred

888 pp, 6 3/4" x 9 3/5", full-color throughout Cloth, Jul 2018, 978 1 78639 124 7, \$250.00



Integrated Management of Insect Pests on Canola and Other Brassica Oilseed Crops

Edited by Gadi V. P. Reddy



This book: is the only single compiled source of information on integrated management of canola and other Brassica oilseed pests; presents the biology and management of all the major and minor pests of Brassica oilseed crops; and is an essential source of information for applied entomologists, crop protection researchers, extension agents and stake holders.

408 pp, 7 1/2" x 9 5/8" Cloth, 2017, 978 1 78064 820 0, \$290.00



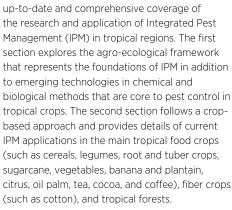
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NEW!

Integrated Pest Management in Tropical Regions

Edited by Carmelo Rapisarda and G. Massimino Cocuzza

This book provides



312 pp, 6 3/4" x 9 3/5" Cloth, 2017, 978 1 78064 800 2, \$160.00



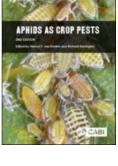
NEW!

Aphids as Crop Pests

SECOND EDITION

Edited by Helmut van Emden and Richard Harrington

This revision and update of the well-received first edition



published ten years ago reflects the expansion of research in genomics, endosymbionts and semiochemicals, as well as the shift from control of aphids with insecticides to a more integrated approach imposed by increasing resistance in the aphids and government restrictions on pesticides. The book remains a comprehensive and up-to-date reference work on the biology of aphids, the various methods of controlling them and the progress of integrated pest management as illustrated by ten case histories.

700 pp, 7 1/2" x 9 5/8", figures, graphs & color photos Cloth, 2017, 978 1 78064 709 8, \$290.00



NEW!

Biocontrol Agents

Entomopathogenic and Slug Parasitic Nematodes

Edited by M. M. Abd-Elgawad, Tarique Hassan Askary and James Coupland



This book describes entomopathogenic and slug parasitic nematodes as potential biocontrol agents in crop insect and slug pest management. Addressing research on these two nematodes from tropical, subtropical, and temperate countries, it covers the new techniques and major developments regarding mass production, formulation, application, commercialization, and safety measures. Plans for future strategies to make these beneficial nematodes cost-effective and expand their use by including them in integrated pest management programs in different agro-ecosystems are also discussed.

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Biology, Ecology and Management

Edited by Stephen Adkins, Asad Shabbir and Kunjithapatham Dhileepan

This book explores the most important aspects of the biology, ecology, and management of "the world's worst weed." Covering its mode of spread and its impacts upon agricultural production, the environment, and human health, the book also reviews management techniques such as biological control, cultural, physical, and chemical approaches. Suitable for

researchers of plant ecology and related subjects, it also considers the possible uses of Parthenium weed, its distribution, and the impacts of climate change.

CABI Invasives Series 312 pp, 6 3/4" x 9 3/5"

Cloth, Jan 2019, 978 1 78064 525 4, \$140.00



NEW!

Invasive Alien Plants

Impacts on Development and Options for Management

Edited by Carol A. Ellison, K. V. Sankaran and Sean T. Murphy

This book brings together a wide range of invasive plant specialists from the Asia-Pacific region who share their experience in addressing the problem and delivering solutions. Mikania micrantha is used as a case study in the book as it exemplifies many of the issues that need to be addressed.

The book emphasizes the social and economic implications of plant invasion, and discusses direct impacts on livelihoods and biodiversity.

It explains how various approaches to management including traditional ecological knowledge and classical biological control can be keys to the delivery of sustainable solutions, focusing on experiences in India, Nepal, Papua New Guinea and China. The use of policy frameworks in biological control and other management measures are also described.

250 pp, 6 3/4" x 9 3/5", tables & color photos Cloth, 2017, 978 1 78064 627 5, \$140.00



Bioenergy and Biological Invasions

Ecological, Agronomic and Policy Perspectives on Minimizing Risk

Edited by Lauren D. Quinn, David P. Matlaga and Jacob N. Barney

170 pp, 6 3/4" x 9 3/5", graphs, figures & photos

Cloth, 2015, 978 1 78064 330 4, \$150.95



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Quantitative Approaches

Edited by Frith Jarrad, Samantha Low-Choy and Kerrie Mengersen

386 pp, 8 1/2" x 11", figures & graphs Cloth, 2015, 978 1 78064 359 5, \$186.95



Invasive Species and Global Climate Change

Parthenium Weed

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Edited by Lewis H. Ziska and Jeffery S. Dukes

368 pp, 7 1/8" x 9 3/4", tables & figures Cloth, 2014, 978 1 78064 164 5, \$186.95



Pest Risk Modelling and Mapping for Invasive Alien **Species**

Edited by Robert C. Venette

256 pp, 6 3/4" x 9 3/5", figures Cloth, 2015, 978 1 78064 394 6, \$165.95



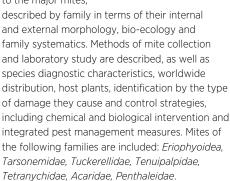


Handbook of Mites of Economic Plants

Identification, Bioecology and Control

Vincenzo Vacante

This book provides an encyclopedic reference to the major mites,



832 pp, 8 5/8" x 11" Cloth, 2016, 978 1 84593 994 6, \$363.95



(db)

INSECTS OF

SOUTH-EASTERN

AUSTRALIA

Insects of South-Eastern Australia

An Ecological and Behavioural Guide

Roger Farrow

TO ORDER:

Richly illustrated with color photographs, the different species of insects found in

Australia's temperate south-east, including plant feeders, predators, parasites and decomposers, are presented. The guide is complemented by an introduction to the insects of the region, including their environment, classification, life history, feeding strategies and behavior. Fascinating boxes on camouflage, mimicry and many other topics are also included throughout.

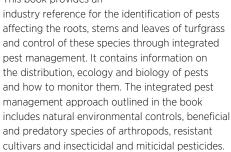
280 pp, 5 4/5" x 8 1/2", 894 color photos Paper, 2017, 978 1 4863 0474 5, \$35.00



Pest Management of Turfgrass for Sport and Recreation

Gary Beehag, Jyri Kaapro and Andrew Manners

This book provides an



312 pp, 6 5/8" x 9 5/8", 97 color & 15 b/w illus Paper, 2016, 978 0 643 09514 4, \$99.95



PEST MANAGEMENT

TURFGRASS

Biocontrol Agents of Phytonematodes

Edited by Tarique Hassan Askary and P. R. P. Martinelli

480 pp, 6 1/4" x 9 1/4" Cloth, 2015, 978 1 78064 375 5, \$269.95



The Pesticide Encyclopedia

Edited by Kalyani Paranjape, Vasant Gowariker, V. N. Krishnamurthy and Sudha Gowariker

726 pp, 8 5/8" x 10 5/8", figures, tables & photos Cloth, 2015, 978 1 78064 014 3, \$384.95



Hemp Diseases and Pests

Management and Biological Control

J. M. McPartland, R. C. Clarke and D. P. Watson

272 pp, line illus, b/w & color photos
Cloth, 2000, 978 0 85199 454 3, \$155.95





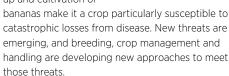
PLANT PATHOLOGY

COMING SOON

Handbook of **Diseases of** Banana, Abacá and Enset

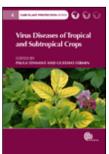
Edited by David R. Jones

The genetic makeup and cultivation of



This book provides a comprehensive guide to the large number of diseases, disorders and injuries that can cause severe economic losses to banana, plantain, abacá and enset crops, and the fungi, bacteria, viruses, nematodes and abiotic factors involved. Information is provided on the origin and classification of banana, the safe movement of Musa germplasm and banana breeding, including the potential for genetic engineering for disease resistance.

656 pp, 6 3/4" x 9 3/5", color illus Cloth, Jan 2019, 978 1 78064 719 7, \$320.00



(db)

Abacá and Enset

Virus Diseases of Tropical and **Subtropical Crops**

Edited by Paula Tennant and **Gustavo Fermin**

This book describes interactions of plant viruses with hosts and

transmission vectors in an agricultural context. Starting with an overview of virus biology, economics and management, chapters then address economically significant plant diseases of tropical and subtropical crops. For each disease, symptoms, distribution, economic impact, causative virus, taxonomy, host range, transmission, diagnostic methods and management strategies are discussed.

CABI Plant Protection Series 4 264 pp, 6 3/4" x 9 3/5" Cloth, 2016, 978 1 78064 426 4, \$165.95

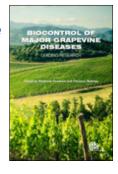


Biocontrol of Major Grapevine Diseases

Leading Research

Edited by Stéphane Compant and Florence Mathieu

Biocontrol of Major Grapevine Diseases provides a timely



research update on the use of biological control agents and plant resistance inducers against phytopathogenic infections of the grapevine by fungi, oomycetes, bacteria and phytoplasma. Its 19 chapters, authored by international experts, cover diseases such as grey mold, trunk diseases, and, by nature, emphasize applications of biocontrol in organic viticulture and as part of integrated pest management systems.

256 pp, 7 1/2" x 9 5/8" Cloth, 2016, 978 1 78064 712 8, \$160.00



Applied Plant Virology

Calum R. Wilson

Modular Texts Series 190 pp, 7 1/2" x 9 5/8", charts, tables & b/w illus Paper, 2014, 978 1 84593 991 5, \$77.95



Diseases of Fruit Crops in **Australia**

Edited by Tony Cooke, Denis Persley and Susan House

288 pp, 8 1/4" x 10 5/8", color photos Cloth, 2010, 978 0 643 06971 8, \$170.00



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Sustainable Crop Disease Management Using Natural **Products**

Edited by K. Vadivel, S. Ganesan and J. Jayaraman

424 pp, 6 3/4" x 9 3/5" Cloth, 2015, 978 1 78064 323 6, \$197.95



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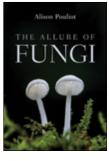
GARDENING & NATURAL HISTORY

COMING SOON

The Allure of Fungi

Alison Pouliot

The Allure of Fungi presents fungi through multiple perspectives – those of mycologists and ecologists, foragers and



forayers, naturalists and farmers, aesthetes and artists, philosophers and Traditional Owners. It explores how a history of entrenched fears and misconceptions about fungi has led to their near absence in Australian ecological consciousness and biodiversity conservation.

Through the combination of engaging text and stunning photography, the author reflects on how aesthetic, sensate experience deepened by scientific knowledge offers the best chance for understanding fungi, the forest and human interactions with them.

280 pp, 6 5/8" x 9 5/8", color photos Paper, Dec 2018, 978 1 4863 0857 6, \$39.95



COMING SOON

A Guide to Native Bees of Australia

Terry Houston

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A Guide to Native Bees of Australia provides a detailed introduction to the estimated 2000



species of Australian bees. Illustrated with stunning photographs, it describes the form and function of bees, their life-cycle stages, nest architecture, sociality and relationships with plants. It also contains systematic accounts of the five families and 58 genera of Australian bees. Photomicrographs of morphological characters and identification keys allow identification of bees to genus level.

280 pp, 5 4/5" x 8 1/4", 353 color photos Paper, Nov 2018, 978 1 4863 0406 6, \$39.95



NEW!

Woodland Development

A Long Term Study of Lady Park Wood

George Peterken and Edward Mountford

Lady Park Wood was set aside as a "natural" reserve for ecological research in 1944, and the trees, shrubs and ground vegetation have been recorded in detail ever since. These 70 years of observations now represent one of the largest and most detailed records in Europe of how a woodland develops under the influence of natural factors.

300 pp, 7 1/2" x 9 5/8", tables & color photos Paper, 2017, 978 1 78639 281 7, \$60.00



Miniature Lives

Identifying Insects in Your Home and Garden

Michelle Gleeson

Miniature Lives provides a range of simple strategies that people can use to identify and



Woodland Development

learn more about the insects in their Australian homes and gardens. Featuring a step-by-step, illustrated identification key and color photographs, the book guides the reader through the basics of entomology. Simple explanations, amusing analogies and quirky facts convey information on diet, life cycle, habitat and risks in a way that is both interesting and easy to understand. Identifying an insect using field guides or internet searches can be daunting – Miniature Lives allows the reader to identify an insect without having to capture or touch it.

344 pp, 5 4/5" x 8 1/2", 247 full color photos & 97 illus

Paper, 2016, 978 1 4863 0137 9, \$28.95





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An Australian National Botanic Gardens Experience



Fanny Karouta-Manasse

Through exquisite color photographs taken at the Australian National Botanic Gardens (ANBG). Fanny Karouta-Manasse celebrates the minute and intriguing details of these plants. Discovering Australian Flora explains how plants are displayed in the ANBG according to themes and provides clear and simple geographical, historical, and botanical information. It also describes the unique features of Australian flora, including their reliance on fire and ability to survive in poor soil, and looks in detail at the two dominant genera in the Australian landscape - Eucalyptus and Acacia.

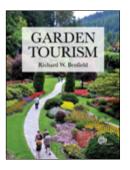
106 pp, 8 1/4" x 8 1/4", color photos Paper, 2017, 978 1 4863 0781 4, \$26.95



Garden **Tourism**

Richard W. Benfield

"Dr. Richard Renfield's book is a must-have for students, marketing and communications professionals, journalists, and anyone working in



public gardens management. He performs a deep investigation into what attracts, motivates, and drives visitors to come to gardens... It is an easily readable book that is packed with current statistics and facts from someone who is a recognized master in a field that is just beginning to bloom!"-CASEY SCLAR, Ph.D., Executive Director, American Public Gardens Association

268 pp, 7 1/2" x 9 5/8", tables & b/w photos Paper, 2013, 978 1 78064 195 9, \$70.00



Australian Garden Rescue

Restoring a Damaged Garden

Mary Horsfall

256 pp, 7 1/2" x 9 2/5", color photos Paper, 2015, 978 1 4863 0000 6, \$39.95



Flooded Forest and Desert Creek

Ecology and History of the River Red Gum

Matthew J. Colloff

340 pp, 6 5/8" x 9 5/8", color paintings, line art, color photos & maps Cloth, 2014, 978 0 643 10919 3, \$69.95



Land of Sweeping Plains

Managing and Restoring the Native Grasslands of South-eastern Australia

Edited by Nicholas S. G. Williams, Adrian Marshall and John W. Morgan

464 pp, 8 1/4" x 9 4/5", 4-color photos & maps throughout Paper, 2015, 978 1 4863 0081 5, \$59.95



Pests, Diseases and Beneficials

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F. David Hockings

280 pp, 8 1/4" x 10 5/8", color illus and photos Paper, 2014, 978 1 4863 0021 1, \$39.95



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Timothy J. Entwisle

184 pp, 5 1/8" x 7 7/8", 15 illus & 18 maps Paper, 2014, 978 1 4863 0203 1, \$29.95



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PROFESSIONAL REFERENCE

COMING SOON

Guide to Venomous and Medically **Important Invertebrates**

David Bowles, James Swaby and Harold Harlan



Guide to

Venomous and Medically

portant Invertebrates

256 pp, 5 4/5" x 8 1/4", color photos, illus, and maps

Paper, Nov 2018, 978 1 4863 0884 2, \$47.95

as well for medical personnel working in high

risk areas, travel planners, and other interested



CABI

DATA ANALYSIS

IN VEGETATION

ECOLOGY

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parties.

Data Analysis in Vegetation **Ecology**

THIRD EDITION

Otto Wildi

Completely revised and updated, the third edition of this popular textbook introduces the

reader to the investigation of vegetation systems with an emphasis on data analysis. The book succinctly illustrates the various paths leading to high quality data suitable for pattern recognition, pattern testing, static and dynamic modeling, and model testing, including spatial and temporal aspects of ecosystems.

Step-by-step introductions using small examples lead to more demanding approaches illustrated by real world examples aimed at explaining interpretations. All data sets and examples described in the book are available online and are written using the freely available statistical package R.

352 pp, 6 1/8" x 9 1/5" Paper, 2017, 978 1 78639 422 4, \$65.00



Vegetable Grafting

Principles and **Practices**

Edited by Giuseppe Colla, Francisco Perez-Alfocea and **Dietmar Schwarz**

Vegetable grafting is gaining considerable



296 pp, 6 3/4" x 9 3/5", tables, figures & color photos

Cloth, 2017, 978 1 78064 897 2, \$140.00



ON LANDSCAPE SITES

Vegetable Grafting

Plants and Planting on Landscape Sites

Selection and Supervision

Peter Thoday

Plants and Planting on Landscape Sites is a practical book giving

practitioners in landscape design the essential horticultural knowledge and concepts needed to understand the limits of the material they are working with and make informed decisions.

From specification to supervision, this book provides concrete advice along with practical examples for each stage of a typical project. It contains sections on: the landscape site; selecting, assessing and purchasing plants; understanding nursery practice; forms and types of transplant traded; seeds and direct seeding; pre-planting site work; transplanting; and care in the establishment phase. Specially commissioned high quality line diagrams and full color photographs are used throughout to demonstrate meaning and give examples.

190 pp, 6 1/8" x 9 1/5", line diagrams & full color photos

Paper, 2016, 978 1 78064 619 0, \$50.00



Garden Centre Management

Ken Crafer

200 pp, 6 3/4" x 9 3/5" Paper, 2015, 978 1 78064 309 0, \$75.00



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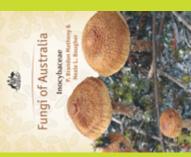
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