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PLANT SCIENCE CATALOG



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BOTANY & HORTICULTURE

NEW!

Controlled Atmosphere Storage of Fruit and Vegetables

THIRD EDITION

Anthony K. Thompson,
Robert K. Prange,
Roger D. Bancroft and
Tongchai Puttgongsiri



This third edition presents current research to provide a comprehensive and up-to-date overview of controlled and modified atmosphere, hyperbaric and hypobaric storage of fresh fruits and vegetables. New and developed technologies for the transportation and storage of horticultural products are essential to ensure that produce reaches consumers in the best possible condition and has the potential to reduce the postharvest use of chemicals, maintain nutritional quality and organoleptic characteristics and reduce losses.

This new edition:

- Reflects on the large amount of research that is continuously being published on the topic
- Reviews and evaluates the adaptation and improvement of commercial technologies
- Includes the effect of techniques and technologies on flavor, quality and physiology, in addition to the influence of pests, diseases and disorders
- Contains 5 new chapters covering genetics and CA storage, dynamic CA storage, hyperbaric storage, hypobaric storage and fruit ripening.

430 pp, 6.75 in x 9.6 in, four-color illus
Cloth, Jan 2019, 978 1 78639 373 9, \$205.00

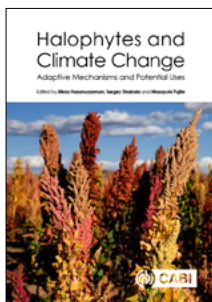


NEW!

Halophytes and Climate Change

Adaptive Mechanisms and Potential Uses

Edited by
Mirza Hasanuzzaman,
Sergey Shabala and
Masayuki Fujita



This book explores the adaptive mechanisms and special features of halophytes that allow them to grow in environments that are unsuitable for conventional crops and considers their role as a

source of food, fuel, fodder, fiber, essential oils, and medicines.

Halophytes and Climate Change includes coverage of:

- Special morphological, anatomical, and physiological features of halophytes
- Ion accumulation patterns and homeostasis in halophytes
- Potential use of halophytes in the remediation of saline soil
- Growth and physiological response and tolerance to toxicity and drought
- Mangrove ecology, physiology, and adaptation

408 pp, 6.75 in x 9.6 in, color illus
Cloth, Apr 2019, 978 1 78639 433 0, \$240.00

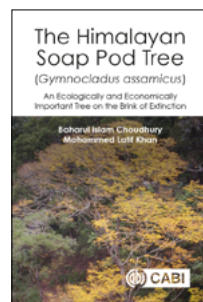


FORTHCOMING

The Himalayan Soap Pod Tree (*Gymnocladus assamica*)

An Ecologically and Economically Important Tree on the Brink of Extinction

Baharur I. Choudhury and
Mohammed L. Khan



Gymnocladus assamica 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. assamica* pods contain high saponin and are used traditionally for cleansing purposes and rituals.

The book contains detailed information about *G. assamica* and discusses its current distribution, population status, ethnobotanical uses and other ecological parameters. Major intrinsic and extrinsic factors that might be responsible for population decline are described. More importantly, uncovered was 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 in x 9 in
Cloth, Nov 2019, 978 1 78639 198 8, \$160.00



Invasive Plant Species of the World

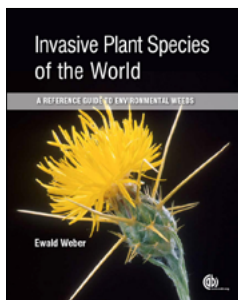
A Reference Guide to Environmental Weeds

SECOND EDITION

Ewald Weber

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

596 pp, 8.625 in x 11 in, illus & maps
Cloth, 2017, 978 1 78064 386 1, \$329.50

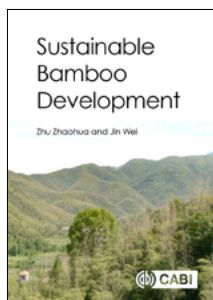


Sustainable Bamboo Development

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, 6.75 in x 9.25 in, table & color illus
Cloth, 2018, 978 1 78639 401 9, \$175.00



CABI CROP PRODUCTION

FORTHCOMING

Citrus

SECOND EDITION

L. Gene Albrigo, Lukasz
L. Stelinski and Lavern
W. Timmer

Citrus fruits have been cultivated and enjoyed for over 4000 years. Moreover, they are grown in nearly every country within 40° north-south latitude, the major producers being Brazil, the USA, and countries bordering the Mediterranean. This new edition continues to adopt an international perspective on citrus, covering its biology and cultivation as well as considering issues in the citrus industry and providing examples from around the world.

The authors include discussion on important topics such as biotechnical advances in citrus genetics, current techniques in breeding, the role of climatic factors in worldwide production, the importance of rootstocks, plant husbandry, pests and diseases, and postharvest technology. They emphasize current theories and technological advances in citriculture, citing specific examples of how they are used and in which regions.

336 pp, 6.75 in x 9.25 in
Paper, Sep 2019, 978 1 84593 815 4, \$85.00



Tomatoes

SECOND EDITION

Edited by Ep Heuvelink

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.

Authored by an international team of experts, this book is essential for growers, extension workers, industry personnel, horticulture students, and lecturers involved in the production of tomatoes.

384 pp, 6.125 in x 9.25 in, full-color photos
throughout
Paper, 2018, 978 1 78064 193 5, \$75.00



SCIENCE IN HORTICULTURE SERIES

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, 6.125 in x 9.25 in, color figures
Paper, 2018, 978 1 78639 136 0, \$75.00

**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. *Blackberries and Their Hybrids* explains the many complex steps involved in producing a conventional or an organic crop for the fresh and processed markets. The book: contains information gathered from global sources; is appropriate for areas that can produce blackberries; and includes full-color images throughout.

368 pp, 6.125 in x 9.25 in, full-color images
Paper, 2017, 978 1 78064 668 8, \$75.00

**Blueberries**

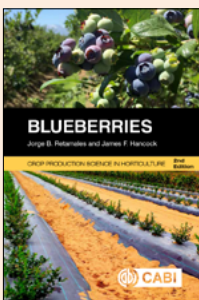
SECOND EDITION

**Jorge B. Retamales
and James F. Hancock**

The book 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
- Gathers new information on fruit quality and consumer acceptance

352 pp, 6.125 in x 9.25 in, graphs & charts
Paper, 2018, 978 1 78064 726 5, \$75.00

**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 includes: coverage of the main types of peas and beans grown on a significant scale or commercially produced in large area farming; key information relating to the role of peas and beans in biological nitrogen fixation; extensive coverage from the technology of cultivation to postharvest industry; and high-quality photos presented in full color throughout.

190 pp, 6.125 in x 9.25 in, color illus
Paper, 2017, 978 1 78064 091 4, \$75.00



**ALSO
AVAILABLE
IN THE
SERIES:**

**Raspberries
Bananas and Plantains
Olives**



The Encyclopedia of Herbs and Spices

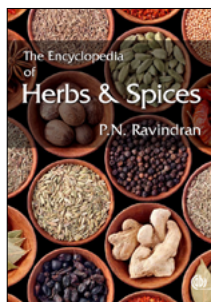
Two Volume Set

P. Ravindran

The Encyclopedia of Herbs and Spices provides comprehensive coverage of the taxonomy, botany, chemistry, functional properties, medicinal uses, culinary uses and safety issues relating to over 250 species of herbs and spices. An invaluable reference tool, this book:

- Presents easily accessible information, including up-to-date nomenclature and taxonomy
- Is beautifully illustrated with over 250 figures
- Begins with an introductory chapter on the definition, classification, history, and applications of herbs and spices worldwide

128 pp, 8.625 in x 11 in, illus
Cloth, 2018, 978 1 78064 315 1, \$660.00



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 world and their uses, in a compact, colorful, and scientifically accurate text. It provides quick answers to the most obvious questions and gives 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, 6.625 in x 9.25 in, color photos
Cloth, 2017, 978 1 78639 325 8, \$50.00



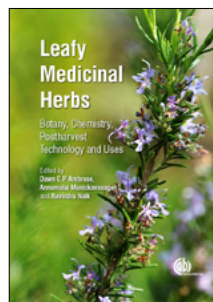
Leafy Medicinal Herbs

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, 6.75 in x 9.25 in, illus
Cloth, 2016, 978 1 78064 559 9, \$165.00

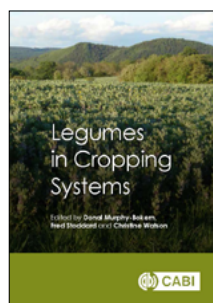


Legumes in Cropping Systems

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, 6.75 in x 9.25 in, full-color illus
Cloth, 2017, 978 1 78064 498 1, \$144.00



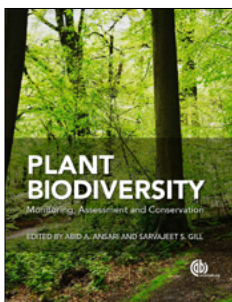
Plant Biodiversity

Monitoring, Assessment and Conservation

**Edited by
Abid A. Ansari and
Sarvajeet S. Gill**

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, 7.5 in x 9.625 in, tables, figs & b/w photos 
Cloth, 2017, 978 1 78064 694 7, \$257.50




Plant Stress Physiology

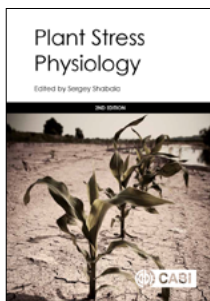
SECOND EDITION

**Edited by
Sergey Shabala**

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
- Is written in a clear and accessible format with descriptive abstracts for each chapter

376 pp, 6.75 in x 9.25 in, figures, tables & color photos 
Cloth, 2017, 978 1 78064 729 6, \$165.00



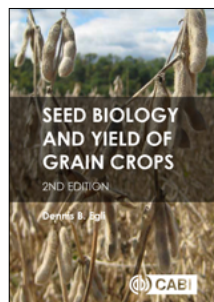
Seed Biology and Yield of Grain Crops

SECOND EDITION

Dennis B. Egli

This second edition examines the determination of grain crop yield from a unique perspective-- by concentrating on the influence of the seed itself. Providing a timely update in this field and highlighting the impact of the seed on grain crop yields, this book: describes all aspects of seed growth and development, including environmental and genetic effects on growth rate and length of the filling period; discusses the role of the seed in determining the two main yield components: individual seed weight and number of seeds per unit area; uses the developed concepts and models to understand crop management and yield improvement.

232 pp, 6.125 in x 9.25 in, graphs 
Cloth, 2017, 978 1 78064 770 8, \$144.00



Fungi of Australia

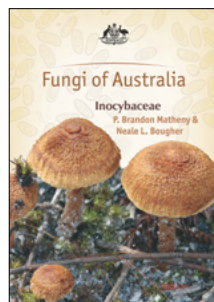
Inocybaceae

**P. Brandon Matheny
and Neale L. Bougher**

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: Inocybaceae is a useful reference for professional and semi-professional mycologists in Australia and around the world.

592 pp, 6.75 in x 9.25 in, color photos & illus 
Cloth, 2017, 978 1 48630 666 4, \$179.95



BOTANY, PRODUCTION AND USES SERIES

The Pineapple

SECOND EDITION

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

Completely updated with new content and full-color figures throughout, the second edition 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, 6.75 in x 9.25 in, full-color illus
Cloth, 2018, 978 1 78639 330 2, \$190.00

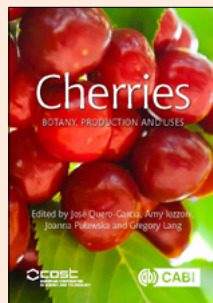


Cherries

Edited by **José Quero-García,
A. Iezzoni, Joanna
Pulawska and
Gregory Lang**

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, 6.75 in x 9.25 in, tables & color photos
Cloth, 2017, 978 1 78064 837 8, \$211.00



Almonds

Edited by
**Rafel Socias i
Company and
Thomas M. Gradziel**

510 pp, 6.75 in x 9.25 in,
tables, graphs & color
photos
Cloth, Aug 21, 2017,
978 1 78064 354 0,
\$211.00

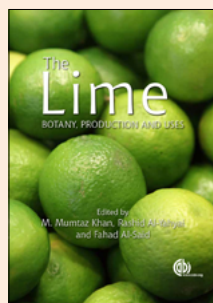


The Lime

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

This comprehensive and up-to-date resource contains detailed information on: breeding, genetics and biodiversity of the plants; 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.

264 pp, 6.75 in x 9.25 in, full-color illus
Cloth, 2017, 978 1 78064 784 5, \$165.00



Environmental Horticulture

Science and Management of Green Landscapes

Ross Cameron and James Hitchmough

344 pp, 7.5 in x 9.625 in
Paper, 2016, 978 1 78064 138 6, \$75.00



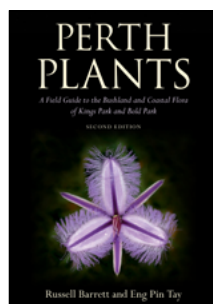
Perth Plants

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

SECOND EDITION

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

440 pp, 9.25 x 8.5 in,
3,764 color photos & 796 maps
Paper, 2016, 978 1 48630 602 2, \$37.95



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

312 pp, 6.75 in x 9.25 in, 550 color photos,
281 maps, 13 graphs
Paper, 2016, 978 1 48630 552 0, \$59.95



Australian Rainforest Woods

Characteristics, Uses and Identification

Morris Lake

216 pp, 8.25 in x 11.75 in, 820 color photos
Cloth, 2015, 978 1 48630 179 9, \$69.95



Postharvest

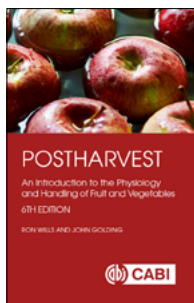
An Introduction to the Physiology and Handling of Fruit and Vegetables

SIXTH EDITION

Ron Wills and
John Golding

306 pp, 9.25 in x 8.5 in,
figures & tables

Paper, 2016, 978 1 78639 148 3, \$75.00



Brassica Oilseeds

Breeding and Management

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

280 pp, 6.75 in x 9.25 in

Cloth, 2015, 978 1 78064 483 7, \$170.95

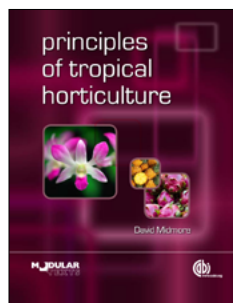


Principles of Tropical Horticulture

David J. Midmore

450 pp, 7.5 in x 9.75 in,
graphs & figures

Paper, 2015,
978 1 84593 515 3, \$77.00



Strawberry

Growth, Development and Diseases

Edited by Amjad M. Husaini and
Davide Neri

352 pp, 6.75 in x 9.25, color photos, figures
& tables

Cloth, 2016, 978 1 78064 663 3, \$180.00



Vegetable Production and Practices

Gregory E. Welbaum

486 pp, 7.5 in x 9.625 in, figures & b/w photos

Paper, 2015, 978 1 84593 802 4, \$85.00



Seeds

The Ecology of Regeneration in Plant Communities

THIRD EDITION

Edited by Robert S. Gallagher

320 pp, 6.75 in x 9.25 in

Cloth, 2014, 978 1 78064 183 6, \$185.50



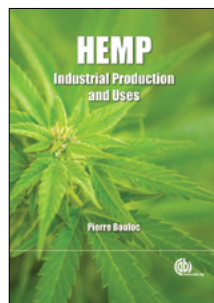
Hemp

Industrial Production and Uses

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

328 pp, 6.75 in x 9.25 in,
180 illus

Paper, 2013,
978 1 84593 792 8, \$87.50



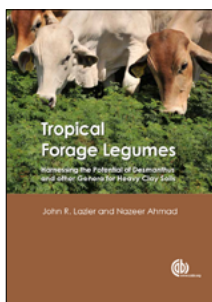
Tropical Forage Legumes

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

John R. Lazier and
Nazeer Ahmad

480 pp, 6.75 in x 9.25,
tables, figures &
color photos

Cloth, 2016, 978 1 78064 628 2, \$231.95



The Physiology of Vegetable Crops

H. C. Wien

672 pp, 6.875 in x 9.75 in

Cloth, 1997, 978 0 85199 146 7, \$326.50



BIOTECHNOLOGY & APPLIED SCIENCE

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 post-fertilization 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, 6.75 in x 9.25 in
Cloth, 2018, 978 1 78639 121 6, \$160.00



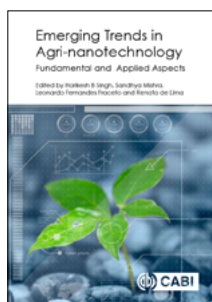
Emerging Trends in Agri-Nanotechnology

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, 6.75 in x 9.25 in, tables & color illus
Cloth, 2018, 978 1 78639 144 5, \$205.00



Advances in PGPR Research

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

Bio-inputs—either directly in the form of microbes or their by-products—are gaining tremendous momentum and harnessing the potential of agriculturally important microorganisms could help in providing low-cost and environmentally safe technologies to farmers. *Advances in PGPR Research* explores these recent developments and includes coverage of:

- low input biofertilizers and biofungicides used for sustainable agriculture
- molecular techniques to enhance efficacy of microbial inputs
- intellectual property issues in PGPR research

408 pp, 6.75 in x 9.25 in
Cloth, 2017, 978 1 78639 032 5, \$225.00



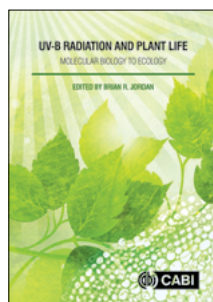
UV-B Radiation and Plant Life

Molecular Biology to Ecology

Edited by
Brian R. Jordan

Ultraviolet-B radiation (UV-B) has profound effects on plant growth and development, and exposure varies with ozone depletion across geographic regions with ecosystem and agricultural consequences. This book deals with large-scale impacts and how UV-B affects plants at the molecular level. While UV-B radiation can be damaging, it also has a more positive role in plant photomorphogenesis. Consequently, UV-B treatments are being developed as innovative approaches to improve horticulture.

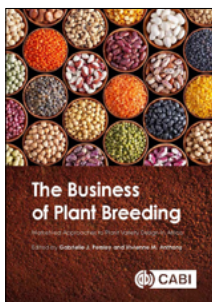
200 pp, 6.75 in x 9.25 in, figures
Cloth, 2017, 978 1 78064 859 0, \$165.00



The Business of Plant Breeding

Market-led Approaches to Plant Variety Design in Africa

Edited by
**Gabrielle J. Persley
and Vivienne M.
Anthony**



The Business of Plant Breeding is the result of a study on demand-led plant variety design for markets in Africa, sharing best practices from private and public sector breeding programs worldwide that are applicable to improving tropical crops in Africa. The study was sponsored by the Australian Centre for International Agricultural Research, the Crawford Fund, and the Syngenta Foundation for Sustainable Agriculture. It was managed by the University of Queensland.

232 pp, 6.75 in x in, color illus
Cloth, 2017, 978 1 78639 381 4, \$139.00



Plant Gene Silencing

Mechanisms and Applications

Edited by
Tamas Dalmay



Plant gene silencing is a crucially important phenomenon in gene expression and epigenetics. This book describes the way small RNA is produced and acts to silence genes, its likely origins in defense against viruses, and its potential to improve plants. Plant gene silencing can be used to improve industrial traits, to make plants more nutritious or more valuable to consumers, to remove allergens, and to improve resistance to weeds and pathogens.

224 pp, 6.75 in x 9.25 in, tables & color illus
Cloth, 2017, 978 1 78064 767 8, \$144.00



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**

480 pp, 6.75 in x 9.25 in, tables, figures & color illus

Cloth, 2016, 978 1 78064 613 8, \$231.95



Automation in Tree Fruit Production

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.

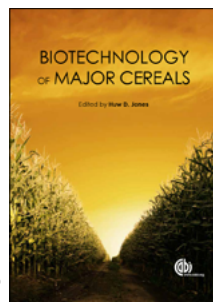
304 pp, 6.75 in x 9.25 in, 4-color graphs & photos
Cloth, 2017, 978 1 78064 850 7, \$205.00



Biotechnology of Major Cereals

Edited by
Huw D. Jones

256 pp, 6.75 in x 9.25 in,
color photos, graphs & charts
Cloth, 2016,
978 1 78064 519 3, \$165.00



Molecular Methods in Plant Disease Diagnostics

Principles and Protocols

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

212 pp, 7.5 in x 9.625 in
Cloth, 2016, 978 1 78064 147 8, \$128.95

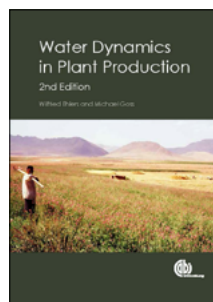


Water Dynamics in Plant Production

SECOND EDITION

Wilfred Ehlers and
Michael Goss

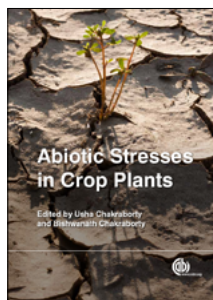
392 pp, 6.75 in x 9.25 in
Paper, 2016,
978 1 78064 382 3, \$75.00



Abiotic Stresses in Crop Plants

Edited by
Usha Chakraborty
and Bishwanath
Chakraborty

278 pp, 6.75 in x 9.25 in
Cloth, 2015,
978 1 78064 373 1, \$170.95



Amino Acids in Higher Plants

Edited by J. P. F. D'Mello

632 pp, 8.625 in x 11.75 in, graphs & charts
Cloth, 2015, 978 1 78064 263 5, \$311.00



Bt Resistance

Characterization and Strategies for GM Crops Expressing Bacillus thuringiensis Toxins

Edited by Mario Soberón, Yulin Gao and
Alejandra Bravo

226 pp, 6.75 in x 9.25 in
Cloth, 2015, 978 1 78064 437 0, \$155.50



Fruit Ripening

*Physiology,
Signalling and
Genomics*

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

340 pp, 6.75 in x 9.25 in,
figures & photos
Cloth, 2014, 978 1 84593 962 5, \$192.50



Phytochemicals of Nutraceutical Importance

Edited by Dhan Prakash and Girish Sharma

376 pp, 6.75 in x 9.25 in
Cloth, 2014, 978 1 78064 363 2, \$257.50



Plants as a Source of Natural Antioxidants

Edited by Nawal Kishore Dubey

320 pp, 6.75 in x 9.25 in, figures, tables & photos
Cloth, 2015, 978 1 78064 266 6, \$170.95



GARDENING & NATURAL HISTORY

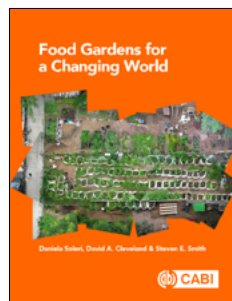
NEW!

Food Gardens for a Changing World

Daniela Soleri,
David A. Cleveland
and Steven E.
Smith

Food gardening is becoming increasingly popular, as people look for new ways to live more sustainably and minimize harm to the environment. This book addresses the most pressing challenges facing food gardening in the 21st century—worldwide changes in climate, the environment, natural resources, and communities—and the basic biological, ecological and social concepts which influence our understanding. Examples throughout the text demonstrate how gardeners can use these theories to their advantage.

336 pp, 7.5 in x 9.625 in
Cloth, Jul 2019, 978 1 78924 098 6, \$160.00
Paper, Jul 2019, 978 1 78924 099 3, \$75.00



NEW!

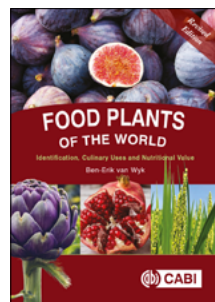
Food Plants of the World

*Identification,
Culinary Uses and
Nutritional Value*

REVISED EDITION
Ben-Erik van Wyk

Food Plants of the World is a comprehensive overview of the plants that provide us with food, beverages, spices and flavors. It is written in easy-to-understand language but gives accurate scientific information on the plants and their uses. This expanded and revised edition of the book includes:

- Descriptions of more than 400 food and flavor plants and their close relatives, including origin, history, cultivation, harvesting, properties and culinary uses
- More than 1000 full-color photographs, showing the plants, flowers and plant parts that are used
- Introductory chapters on cereals, pulses (legumes), nuts and seeds, fruits, vegetables, culinary herbs, sugar plants, beverages, spices and flavorings



- Interesting facts about the historical and contemporary uses of the various plant-derived products
- A checklist of more than 800 of the most important and well-known food plants of the world

512 pp, 6 in x 9 in, color photos

Cloth, Jun 2019, 978 1 78924 130 3, \$69.95

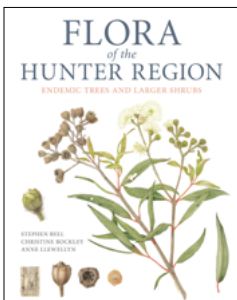


NEW!

Flora of the Hunter Region

Endemic Trees and Larger Shrubs

Stephen Bell,
Christine Rockley
and Anne Llewellyn



Flora of the Hunter Region describes 54

endemic trees and large shrubs, combining art and science in a manner rarely seen in botanical identification guides. Species accounts provide information on distribution, habitat, flowering, key diagnostic features and conservation status, along with complete taxonomic descriptions. Each account includes stunning botanical illustrations produced by graduates of the University of Newcastle's Bachelor of Natural History Illustration program. The illustrations depict key diagnostic features and allow complete identification of each species.

136 pp, 9 in x 11.25 in, color illus & maps

Cloth, 2019, 978 1 48631 102 6, \$63.95



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, 6.25 in x 9.25 in, color photos throughout

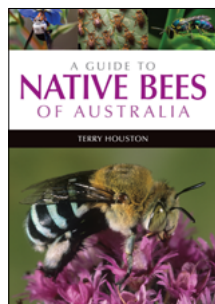
Paper, 2018, 978 1 48630 857 6, \$39.95



A Guide to Native Bees of Australia

Terry Houston

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. Natural history enthusiasts, professional and amateur entomologists and beekeepers will find this an essential guide.



280 pp, 5.50 in x 8.25 in, 353 color photos

Paper, 2018, 978 1 48630 406 6, \$39.95



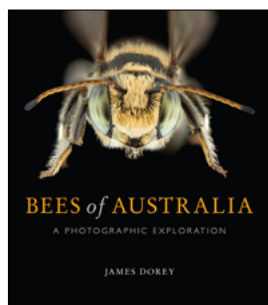
NEW!

Bees of Australia

A Photographic Exploration

James Dorey

Bees are the darlings of the insect world. It is a joy to see these insects hard at work, peacefully buzzing from flower to flower. Many people recognize the worth of bees, as well as that they face multiple threats. But very few know about the diversity and importance of Australian native bee species. There are an estimated 2,000 to 3,000 bee species in Australia, yet we know very little about the vast majority of these and there are many that are yet to be described.



232 pp, 10 in x 8.875 in, color photos & illus

Paper, Jan 2019, 978 1 48630 849 1, \$39.95



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. This book is an invaluable read for researchers and professionals in nature conservation, ecological research, and forestry.

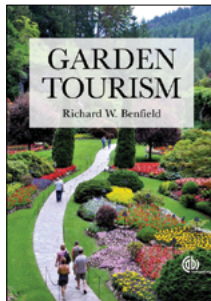
300 pp, 7.5 in x 9.625 in, tables & color photos
Paper, 2017, 978 1 78639 281 7, \$60.00



Garden Tourism

Richard W. Benfield

“Dr. Richard Benfield’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, 7.5 in x 9.25 in, tables & b/w photos
Paper, 2013, 978 1 78064 195 9, \$72.00

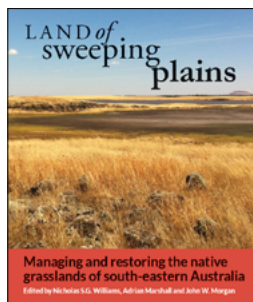


Land of Sweeping Plains

Managing and Restoring the Native Grasslands of South-eastern Australia

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

464 pp, 8.25 in x 10.25 in, 4-color photos & maps throughout
Paper, 2015, 978 1 48630 081 5, \$59.95



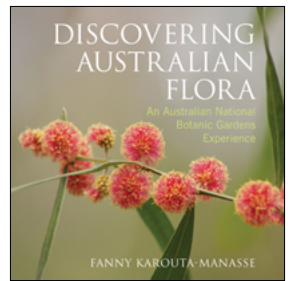
Discovering Australian Flora

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, 8.25 in x 8.25 in, color photos
Paper, 2017, 978 1 48630 781 4, \$26.95

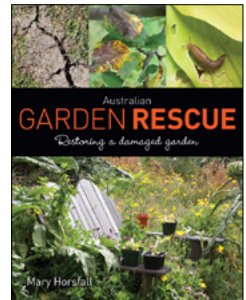


Australian Garden Rescue

Restoring a Damaged Garden

Mary Horsfall

256 pp, 7.5 in x 9.75 in, color photos
Paper, 2015, 978 1 48630 000 6, \$39.95



The Nature of Crops

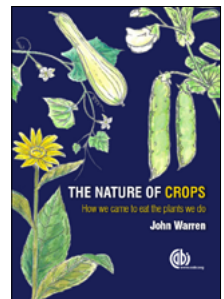
How We Came to Eat the Plants We Do

John Warren

“Written by a natural storyteller, this book is a ‘must’... a very readable book, packed with interesting and useful information, exploring and clearly explaining the cool science behind the development of the plants that sustain us.”

—DR. TIM PETTIT, *Eden Project*

184 pp, 5.5 in x 8.25 in
Paper, 2015, 978 1 78064 509 4, \$39.95

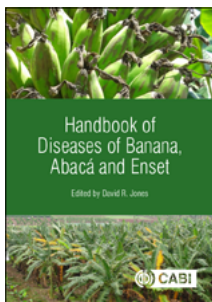


PLANT PATHOLOGY

NEW!

Handbook of Diseases of Banana, Abacá and Enset

Edited by
David R. Jones



This book provides a comprehensive guide to the large number of diseases, disorders and injuries that can cause severe economic losses to banana, abacá and enset crops, and the fungi, bacteria, phytoplasmas, viruses, nematodes and abiotic factors involved. The monoculture of certain banana cultivars in large plantations make the crop particularly susceptible to catastrophic losses from disease, and small holders can also experience major problems. New approaches to breeding, crop management and handling are being developed to meet challenges posed by emerging threats.

The *Handbook of Diseases of Banana, Abacá and Enset* both describes and illustrates diseases and is printed in full color throughout, creating a valuable diagnostic tool. It covers:

- The origin and classification of banana, the safe movement of *Musa* germplasm and banana breeding for disease resistance.
- Recent areas of growing research on the most important diseases of banana, such as black leaf streak, Fusarium wilt, *Xanthomonas* bacterial wilt and bunchy top.

656 pp, 6.75 in x 9.6 in, color illus
Cloth, Jan 2019, 978 1 78064 719 7, \$320.00



Virus Diseases of Tropical and Subtropical Crops

Edited by Paula Tennant and Gustavo Fermin

264 pp, 6.75 in x 9.25 in
Cloth, 2016, 978 1 78064 426 4, \$170.95

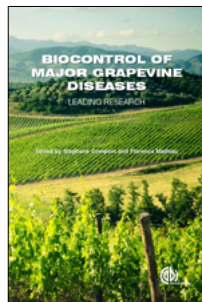


Biocontrol of Major Grapevine Diseases

Leading Research

Edited by
Stéphane Compant
and Florence Mathieu

256 pp, 7.5 in x 9.25 in
Cloth, May 2016,
978 1 78064 712 8, \$165.00



Applied Plant Virology

Calum R. Wilson

190 pp, 7.5 in x 9.25 in, charts, tables & b/w illus
Paper, Sep 2014, 978 1 84593 991 5, \$80.50



Sustainable Crop Disease Management Using Natural Products

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

424 pp, 6.75 in x 9.25 in
Cloth, 2015, 978 1 78064 323 6, \$203.95



PESTS & PEST MANAGEMENT

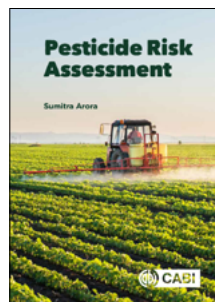
NEW!

Pesticide Risk Assessment

Sumitra Arora

Pesticide Risk Assessment describes the environmental risks associated with the injudicious use of pesticides and their mixtures, their methods of estimation and assessment, and their regulation. It also contains methods to reduce and minimize the risks associated with the use of pesticides. The book: examines pesticides, their impact on the environment, mode of action, estimation methods, risk assessment, mixture toxicity, alternatives for risk reduction, and regulatory aspects; includes global case studies detailing cases of pesticide poisoning, and the health effects of exposure to pesticides; and covers risks to human health, aquifers and aquatic organisms, pollinators, soil micro flora and fauna, terrestrial organisms and wildlife.

320 pp, 6.75 in x 9.6 in
Cloth, May 30, 2019, 978 1 78064 633 6, \$175.00



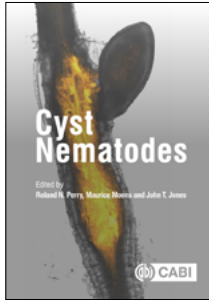
Cyst Nematodes

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

This book is a compendium of current information on all aspects of cyst nematodes. It provides comprehensive coverage of their biology, management, morphology and diagnostics, in addition to up-to-date information on molecular aspects of taxonomy, host-parasitic relationships and resistances of these economically important parasites.

Written by a team of international experts, *Cyst Nematodes* will be invaluable to all researchers, lecturers and students in nematology, parasitology, agriculture and agronomy.

456 pp, 6.75 in x 9.25 in
Cloth, 2018, 978 1 78639 083 7, \$225.00



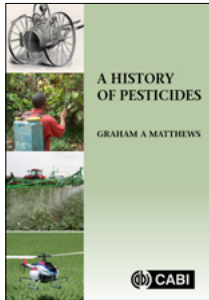
A History of Pesticides

Graham A. Matthews

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, 6.75 in x 9.25 in
Cloth, 2018, 978 1 78639 487 3, \$160.00



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, 6.75 in x 9.25 in
Cloth, 2017, 978 1 78064 499 8, \$290.00



Plant Parasitic Nematodes in Subtropical and Tropical Agriculture

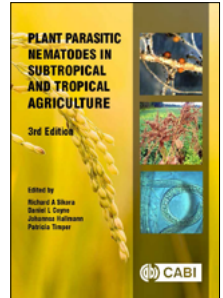
THIRD EDITION

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

Covering all aspects of practical plant nematology in subtropical and tropical agriculture, this third edition 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 and soil health; reflections on the impact of nematodes on food security, climate change interactions and alternatives to pesticides, small subsistence growers and organic agriculture; and 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, 6.75 in x 9.25 in, full-color illus throughout
Cloth, 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
- is an essential source of information for applied entomologists, crop protection researchers, extension agents and stake holders

408 pp, 7.5 in x 9.25 in

Cloth, 2017, 978 1 78064 820 0, \$298.95



Integrated Pest Management in Tropical Regions

Edited by Carmelo Rapisarda and G. Massimo Cocuzza



Integrated Pest Management in Tropical Regions:

- Explores the techniques aimed at controlling pests in agro-ecosystems sustainably while reducing secondary effects on the environment and on plant, animal, and human health
- Contextualizes IPM within our current knowledge of climate change and the global movement of organisms
- Covers integrated strategies to contain pests in major tropical food crops, fiber crops, and trees
- Discusses options and challenges for pest control in tropical agriculture.

312 pp, 6.75 in x 9.25 in

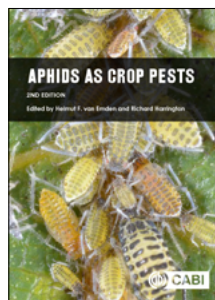
Cloth, 2017, 978 1 78064 800 2, \$160.00



Aphids as Crop Pests

SECOND EDITION

Edited by
Helmut van Emden
and Richard
Harrington



Aphids are among the world's major pest groups, causing serious economic damage to many food and commodity crops in most parts of the world. This revision and update 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, 7.5 in x 9.25 in, figures, graphs & color photos

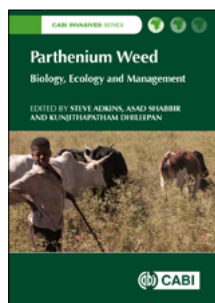
Cloth, 2017, 978 1 78064 709 8, \$298.95



Parthenium Weed

Biology, Ecology and Management

Edited by
Stephen Adkins,
Asad Shabbir and
Kunjithapatham
Dhileepan



This collective effort by 27 members of the International Parthenium Weed Network addresses research and knowledge gaps for different countries. It examines the weed's mode of spread, its impact on agricultural production, its effect on the environment and on human health, and its management using biological control, as well as cultural, physical and chemical approaches. It also considers the coordination of the weed's management, possible uses for Parthenium weed, its present distribution and how this is impacted by climate change.

This book includes:

- A detailed analysis of Parthenium weed biology
- Experiences with Parthenium weed worldwide
- An explanation of practical management options

This book will be of interest to graduate students and researchers in universities and institutes, in the fields of plant ecology, botany, agriculture, conservation and restoration ecology.

312 pp, 6.75 in x 9.25 in

Cloth, 2018, 978 1 78064 525 4, \$140.00



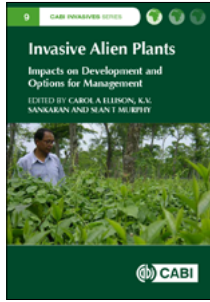
Invasive Alien Plants

Impacts on Development and Options for Management

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

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, 6.75 in x 9.25 in, tables & color photos
Cloth, 2017, 978 1 78064 627 5, \$144.00

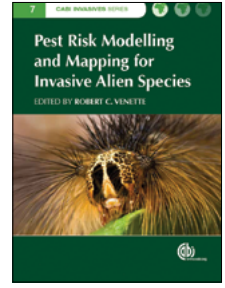


Pest Risk Modelling and Mapping for Invasive Alien Species

Edited by Robert C. Venette

256 pp, 6.75 in x 9.25 in, figures

Cloth, 2015, 978 1 78064 394 6, \$170.95



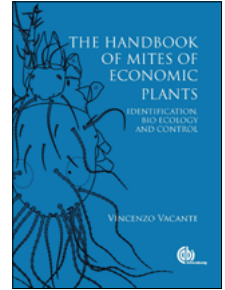
Handbook of Mites of Economic Plants

Identification, Bio-ecology and Control

Vincenzo Vacante

832 pp, 8.625 in x 11 in

Cloth, 2016, 978 1 84593 994 6, \$374.95

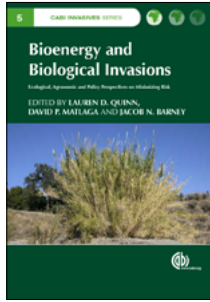


Bioenergy and Biological Invasions

Ecological, Agronomic and Policy Perspectives on Minimizing Risk

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

170 pp, 6.75 in x 9.25 in, graphs, figures & photos
Cloth, 2015, 978 1 78064 330 4, \$155.50



Biocontrol Agents

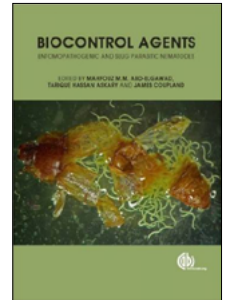
Entomopathogenic and Slug Parasitic Nematodes

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

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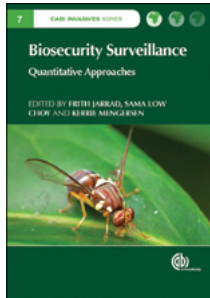
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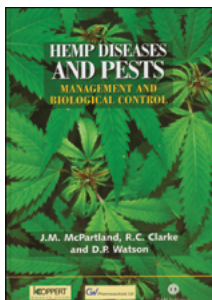


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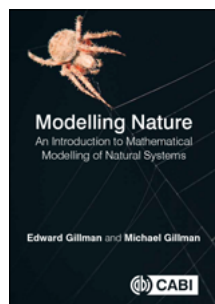
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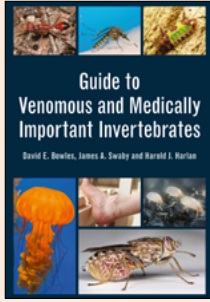


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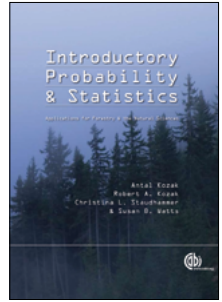
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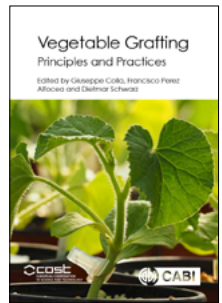
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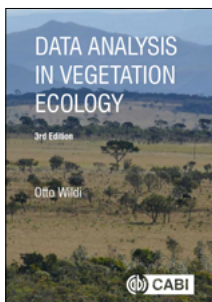
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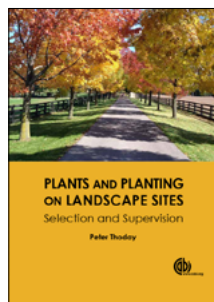
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