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2024

SOIL & CROP SCIENCE CATALOG



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Catalog designed by Kathleen Dyson



DISEASE, WEED & PEST CONTROL

NEW!

Fungal Plant Pathogens

Applied Techniques

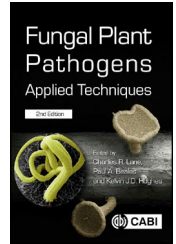
Edited by Charles R. Lane, Paul A. Beales and Kelvin J. D. Hughes

Covering the key techniques used when working with fungal plant pathogens, this practical manual deals with recognition of disease symptoms, detection and identification of fungi and methods to characterize them well as curation, quarantine and quality assurance. This new edition includes updates with respect to:

- Greater awareness and concern internationally about plant health and biosecurity
- Molecular biology—next generation sequencing and in field detection
- Improved opportunities for surveillance and detection in substrates, such as remote sensing
- Changes in taxonomy and reference to more current fungal plant pathogens
- New chapters on tree health, public awareness, outreach, and communications

264 pp, 6 in x 9 in

Paper, Sep 2023, 978 1 80062 055 1, \$ 60.00



NEW!

Psocids As Global Pests Of Stored Products

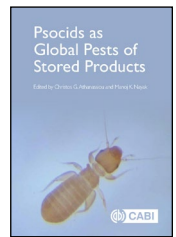
Edited by Christos G. Athanassiou and Manoj K. Nayak

Psocids have become widespread pests of stored products during the last two decades, yet little was known about their biology and management until this change in their pest status. The aim of this book is to synthesize current information on the biology and management of these stored-product insect pests. The book covers their identification, biology and ecology, monitoring, chemical and non-chemical control, resistance to insecticides, molecular biology, and the future of stored-product psocid research.

This is the first ever comprehensive book on Psocids infesting stored products and is written by a carefully selected list of experts on these pests. It is essential reading for all those involved in the control of pests in stored products and post-harvest systems, students and researchers in applied entomology and pest management practitioners in general.

136 pp, 6 in x 9 in

Cloth, May 2023, 978 1 78924 552 3, \$ 130.00



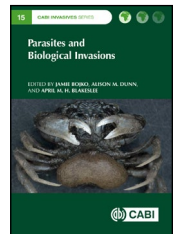
NEW!

Parasites and Biological Invasions

Edited by Jamie Bojko, Alison M. Dunn and April M. H. Blakeslee

Biological invasions—the introduction, establishment, and spread of invasive alien species—are complex global phenomena that can cause significant environmental, ecological, and economic harm. Along with the direct effects of an invasive host organism, there is the additional threat of co-introduced pathogenic and parasitic species. Co-introduced parasites can affect the success of the invasive organism but can also go on to infect hosts in the new range, resulting in novel ecological interactions and complex impacts. These invasive parasites can have profound impacts on the success of a biological invasion, and can pose a significant risk to wildlife, in addition to organisms cultured for agriculture and aquaculture.

Compiling information on parasite invasions for the first time, this unique book: provides an in-depth resource on parasite invasions, revealing the subtleties underlying



biological invasions and co-introduced disease; examines the phenomenon and consequences of parasite release in invaded host communities; explores parasite invasion impacts, interactions and diagnostic techniques; includes case studies across a broad range of hosts (plants, vertebrates and invertebrates) and parasites (viruses to large Metazoa), from a plethora of aquatic and terrestrial environments.

CABI Invasives Series 15

160 pp, 6 in x 9 in

Cloth, Dec 2023, 978 1 78924 811 1, \$ 115.00



NEW!

Parasitic Plants in African Agriculture

Lytton John Musselman and Jonne Rodenburg

Parasitic Plants in African Agriculture brings together for the first time in a single volume, the ecology, biology, damage, and control of all groups of African parasitic plants including both the relatively few parasites introduced to the continent as well as those native parasites that have spread from within Africa.

The book distinguishes between stem and root parasitic weeds and between holoparasites and (facultative or obligate) hemiparasites. Based on their research and experience collectively spanning six decades, the authors provide an authoritative and state-of-the-art overview of the distribution, biology and impact of these highly specialized weeds and include recommendations for their management. Since parasitic plants in African agriculture primarily affect smallholder farmers, these weeds are explicitly discussed within a context of resource limitations and global changes. Current and future management strategies are outlined in terms of their principles and effectiveness as well as their feasibility and affordability for farmers, all of which determine farmer adoption.

208 pp, 6 in x 9 in, photos, graphs, & maps

Cloth, Sep 2023, 978 1 78924 763 3, \$ 130.00



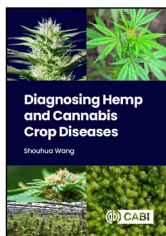
Diagnosing Hemp and Cannabis Crop Diseases

Shouhua Wang

This new book illustrates how to diagnose—in a hemp or cannabis crop—a disease problem and how to manage it effectively. It presents real disease cases encountered during production, and explains methods of diagnosis, both in the field and in the lab, in order to find out the cause(s). The book provides: a field and laboratory guide to diagnosing hemp and cannabis diseases and pest problems; ready-to-adopt skills, methods and protocols in plant diagnosis, which can be applied to other crops; and over 300 color photographs accompanied by a wealth of disease information, including field observations, unique symptoms, microscopic details, and molecular data.

336 pp, 7 in x 9 in, 300 color photos

Cloth, 2021, 978 1 78924 607 0, \$ 108.15



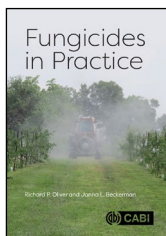
Fungicides in Practice

Richard P. Oliver and Janna L. Beckerman

This is a guide for practitioners and scientists involved in fungicide research and use. The focus is on broadacre and horticultural crops, such as cereals, vines, soft and pome fruits. Based loosely on the 2014 edition of *Fungicides in Crop Protection*, this book is significantly altered with new content and major revisions to all chapters.

The contents include:

- Fungicide markets, discovery and performance
- Using fungicides to control diseases—seed treatments, foliar treatments, application methods
- Crop-specific aspects of disease control, with case studies
- Biological crop protection, and organic cultivation



- Fungicide resistance
- Legislation and regulation

256 pp, 6 in x 9 in

Cloth, 2022, 978 1 78924 690 2, \$ 130.00



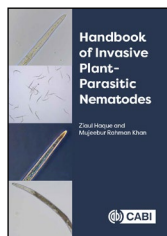
Handbook of Invasive Plant-parasitic Nematodes

Ziaul Haque and Mujeeb Rahman Khan

This book contains information on around 100 invasive nematodes and their potential threat in different countries. Each nematode entry includes information on: authentic identification, geographical distribution, risk of introduction, host ranges, symptoms, biology and ecology, planting material liable to carry the nematode(s) and its vector if any, chance of establishment, likely impact, phytosanitary measures, and a detailed account of diagnosis procedures e.g. sampling, isolation/detection and identification with morphological and molecular characterization. It offers a global perspective on invasive nematodes suitable for practitioners, professionals, scientists, researchers, students, and government officials working in plant quarantine and biosecurity.

544 pp, 7 in x 9 in

Cloth, 2021, 978 1 78924 736 7, \$ 257.50



Integrated Nematode Management

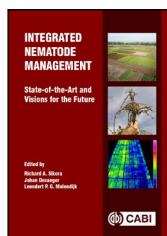
State-of-the-Art and Visions for the Future

Edited by Richard A. Sikora, Johan Desaegeer and Leendert Molendijk

Taking a systematic crop by crop approach, this book: outlines the economic importance of specific plant parasitic nematode problems on the major food and industrial crops; presents the state-of-the-art management strategies that have been developed to reduce specific nematode impacts, and outlines their limitations; contains case studies to illustrate impact in the field; and anticipates future changes in nematode disease pressure that might develop as a result of climate change, and new cropping systems.

488 pp, 6 in x 9 in

Cloth, 2021, 978 1 78924 754 1, \$ 175.10



Invasion Biology

Hypotheses and Evidence

Edited by Jonathan M. Jeschke and Tina Heger

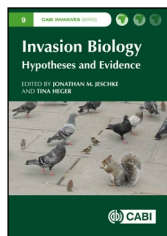
This book develops a tool for assessing research hypotheses and applying it to a number of invasion hypotheses, using the hierarchy-of-hypotheses (HoH) approach, and mapping the connections between theory and evidence. In Part 1, an overview chapter of invasion biology is followed by an introduction to the HoH approach and short chapters by science theorists and philosophers that comment on the approach. Part 2 outlines the invasion hypotheses and their interrelationships. These include biotic resistance and island susceptibility hypotheses, disturbance hypothesis, invasional meltdown hypothesis, enemy release hypothesis, evolution of increased competitive ability and shifting defence hypotheses, tens rule, phenotypic plasticity hypothesis, Darwin's naturalization & limiting similarity hypotheses and the propagule pressure hypothesis. Part 3 suggests future directions for invasion research.

CABI Invasives Series 9

192 pp, 6.75 in x 9.5 in, color figures

Cloth, 2018, 978 1 78064 764 7, \$ 132.00

Paper, 2022, 978 1 80062 161 9, \$ 60.00



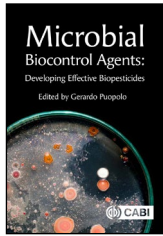
Microbial Biocontrol Agents*Developing Effective Biopesticides*

Edited by Gerardo Puopolo

To guide the readers through the world of microbial biopesticides, the book starts with a chapter dedicated to the regulations that need to be followed for the development of final products. Readers will understand the importance of formulation and mode of action of mBCAs in developing microbial biopesticides. They will become familiar with key mBCAs such as *Ampelomyces quisqualis*, *Bacillus* spp., *Trichoderma* spp., and *Pseudomonas* spp., understanding the importance of formulation for their application in the field. This book explains the use of mBCAs to control post-harvest diseases and the potential of endophytic microorganisms as next-generation microbial biopesticides. A final chapter provides a useful workflow for the selection of new mBCAs and describes microbial species including promising mBCAs that might be developed as new microbial biopesticides.

208 pp, 6 in x 9 in

Cloth, Jan 2023, 978 1 78924 918 7, \$ 130.00

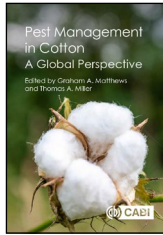
**Pest Management in Cotton***A Global Perspective*

Edited by Graham A. Matthews and Thomas A. Miller

This book shows the need for more research to select cotton varieties with high quality fibers suitable for different cotton growing areas and to develop integrated pest management strategies to minimize the use of pesticides. It also demonstrates the need for an inter-disciplinary approach bringing together plant breeders, entomologists, plant pathologists, agronomists and agricultural engineers to achieve high yields of high quality cotton.

312 pp, 6 in x 9 in

Cloth, 2022, 978 1 80062 021 6, \$ 130.00

**Asian Citrus Psyllid***Biology, Ecology and Management of the Huanglongbing Vector*

Edited by Jawwad A. Qureshi and Philip A. Stansly

352 pp, 6 in x 9 in

Cloth, 2020, 978 1 78639 408 8, \$ 142.55

**Biological Control in Latin America and the Caribbean***Its Rich History and Bright Future*

Edited by J. C. van Lenteren, Vanda H.P. Bueno, Maria Gabriela Luna and Yelitza Colmenarez

520 pp, 6 in x 9 in

Cloth, 2020, 978 1 78924 243 0, \$ 237.55

**Biology and Management of Bactrocera and Related Fruit Flies**

Anthony R. Clarke

272 pp, 6 in x 9 in

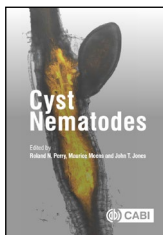
Cloth, 2019, 978 1 78924 182 2, \$ 110.90

**Cyst Nematodes**

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

456 pp, 6.75 in x 9.5 in

Cloth, 2018, 978 1 78639 083 7, \$ 95.00

**Insect Pest Management**

David R. Dent and Richard H. Binks

408 pp, 7 in x 9 in

Paper, 2020, 978 1 78924 104 4, \$ 71.75

**Invasive Species And Global Climate Change**

Edited by Lewis H. Ziska

CABI Invasives Series 14

352 pp, 6 in x 9 in

Cloth, 2022, 978 1 80062 143 5, \$ 150.00

**Optical Manipulation of Pests and Beneficial Arthropods**

Edited by David Ben-Yakir

192 pp, 6 in x 9 in

Cloth, 2020, 978 1 78639 470 5, \$ 126.70

**Parthenium Weed***Biology, Ecology and Management*

Edited by Stephen Adkins, Asad Shabbir and Kunjithapatham Dhileepan

CABI Invasives Series 7

312 pp, 6.75 in x 9.5 in

Cloth, 2018, 978 1 78064 525 4, \$ 63.35

**Plant Parasitic Nematodes in Subtropical and Tropical Agriculture**

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

888 pp, 6.75 in x 9.5 in, full-color illus throughout

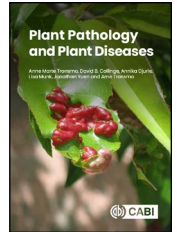
Cloth, 2018, 978 1 78639 124 7, \$ 100.30

**Plant Pathology and Plant Diseases**

Anne Marte Tronsmo, Lisa Munk, Annika Djurle, Arne Tronsmo, Jonathan Yuen and David B. Collinge

440 pp, 6 in x 9 in

Paper, 2020, 978 1 78924 317 8, \$ 69.20

**Techniques for Work with Plant and Soil Nematodes**

Edited by Roland N. Perry, David Hunt and Sergei Subbotin

376 pp, 7 in x 9 in, illus

Cloth, 2020, 978 1 78639 175 9, \$ 137.25

**The Economics of Integrated Pest Management of Insects**

David W. Onstad and Philip R. Crain

232 pp, 7 in x 9 in

Cloth, 2019, 978 1 78639 367 8, \$ 126.70

**The Economics of Soybean Disease Control**

Nicholas Kalaitzandonakes, James Kaufman and Kenneth Zahring

200 pp, 6.75 in x 9.25 in

Cloth, 2019, 978 1 78064 808 8, \$ 168.90

**A History of Pesticides**

Graham A. Matthews

280 pp, 6.75 in x 9.5 in

Cloth, 2018, 978 1 78639 487 3, \$ 63.35



CROP PRODUCTION SCIENCE IN HORTICULTURE SERIES

NEW!

Peach

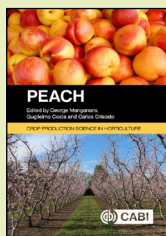
Edited by George Athanasios Manganaris, Guglielmo Costa and Carlos H. Crisosto

This new book provides comprehensive and up-to-date coverage on sustainable production processes for fresh market and canning peaches and nectarines, including orchard establishment, production, pests and diseases, postharvest handling and uses. This book includes fundamental information to help reduce production risks for growers, improve fruit quality, and increase potential market returns, while addressing current emerging issues such as climate change and shifting global and regional production practices.

Written by an international team of expert authors and highly illustrated in full color throughout, *Peach* presents information in an organized and easy-to-follow manner, with content including: fruit quality, composition and nutritional benefits; production physiology of growth and cropping; orchard design and establishment, tree architecture, field management and harvesting; non-destructive peach fruit maturity and quality assessment; and postharvest physiology and technology, including supply chain management protocols and transportation.

424 pp, 6 in x 9 in, color photos

Paper, Sep 2023, 978 1 78924 843 2, \$ 80.00



NEW!

Date Palm

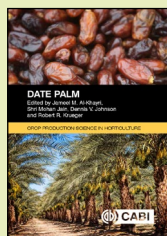
Edited by Jameel M. Al-Khayri, Shri Mohan Jain, Dennis V. Johnson and Robert R. Krueger

Research into date palm improvement for fruit production in recent decades has brought about improved elite cultivars, stress and pathogen resistance, and enhanced postharvest technologies. These developments have led to revised recommendations for date palm producers, and increased opportunity to promote novel fruit products.

This book provides: a practical manual on modern date palm cultivation; best practices for optimal fruit production levels of high-quality fruit; and opportunities for more complete utilization of the multitude of products the date palm can provide at both the subsistence and commercial level of production.

568 pp, 6 in x 9 in

Paper, Sep 2023, 978 1 80062 018 6, \$ 100.00



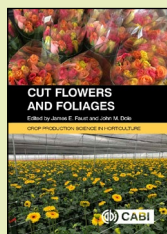
Cut Flowers and Foliages

Edited by James E. Faust and John Dole

This book describes the main international production locations and markets, including current trends and directions. The focus is on production in protected cultivation. The major species—including rose, chrysanthemum, carnation, orchid, gerbera—dominate the global market and these are individually explored in detail. Specialty species and cut foliages are also addressed, as well as significant details of production, including irrigation and fertilization; disease and disease management; and biological control of pests. Finally, the postharvest chapter covers details of harvesting, transporting and delivering high quality flowers that provide an excellent vase life.

408 pp, 6 in x 9 in, color illus throughout

Paper, 2021, 978 1 78924 760 2, \$ 72.10



NEW!

Vegetable Brassicas and Related Crucifers

Geoffrey R. Dixon and Rachel Wells

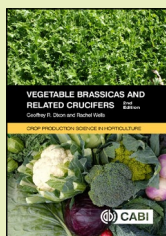
This substantially expanded second edition reflects the significant advances in knowledge of plant breeding and crop production which have occurred since publication of the original book in 2006.

Embracing new Brassicaceae research and concepts of sustainable and automated crop production, topics include:

- Brassica evolution and transcontinental spread as the basis for crop breeding
- Gene-editing, rapid sequencing, genetic markers and linkage mapping to enable efficient plant breeding
- Seed development, F1 cultivars and rapid maturing crops for profitable cropping
- Environmental impacts on pests, pathogens, crop reliability and quality
- Soil health and fertility as agronomic principles
- Environmental sustainability, biocontrol and integrated pest management
- Vegetable brassicas as nutrient-rich foods for optimal health benefits

448 pp, 6 in x 9 in

Paper, Oct 2023, 978 1 78924 915 6, \$ 95.00



Mushrooms

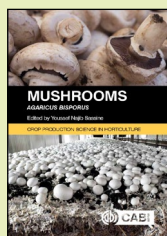
Agaricus Bisporus

Edited by Youssef Najib Sassine

This book presents fundamental guidelines for mushroom production as well as major scientific findings in this field. It covers mushroom production and trade, substrates properties, compost quality, breeding, pests and diseases, harvesting, and post-harvest technologies. With practical information on methods used by both commercial and small-scale growers, the book also addresses: the major steps of the mushroom production cycle—compost preparation, spawning, casing, pinning, cropping, and harvest; ways to improve *A. bisporus* yield, quality, and disease resistance; and case studies to illustrate cultivation techniques in a range of different countries, making use of local agricultural or industrial wastes.

400 pp, 6 in x 9 in

Paper, 2021, 978 1 80062 041 4, \$ 82.40



Strawberries

James F. Hancock

Crop Production Science in Horticulture

288 pp, 6 in x 9 in, full-color illus

Paper, 2020, 978 1 78924 227 0, \$ 63.35

Sweet Cherries

Lynn Long, Gregory Lang and Clive Kaiser

360 pp, 6 in x 9 in, color illus

Paper, 2020, 978 1 78639 828 4, \$ 63.35

Tropical Roots and Tuber Crops

Cassava, Sweet Potato, Yams and Aroids

Vincent Lebot

560 pp, 6 in x 9 in

Paper, 2019, 978 1 78924 336 9, \$ 89.75

FORTHCOMING**The Coconut***Botany, Production and Uses***Stephen Adkins, Julianne Biddle, Amirhossein Bazrafshan, Sundaravelpandian Kalaipandian**

The coconut palm (*Cocos nucifera* L.) is one of the world's most important palms, and contributes significantly to the income and livelihood of many people in tropical countries. Widely referred to as the 'tree of life', coconut has been used as a source of food, drink, oil, medicine, shelter and wood for around 500 years. Every part of the coconut palm can be utilized. The demand for coconut fruit and its products has increased recently as people have become aware of its nutritional and health benefits, especially those of coconut water and virgin coconut oil.

This book covers all aspects of coconut including origins and diversity; ecophysiology; production in a changing climate; pests and diseases; harvest and postharvest management; breeding and genetics; as well as the current and future status of coconut as an economic crop.

248 pp, 6 in x 9 in**Cloth, Dec 2023, 978 1 78924 971 2, \$155.00****NEW!****The Olive***Botany and Production***Edited by Andrea Fabbri, Luciana Baldoni, Tiziano Caruso and Franco Famiani**

Olive cultivation has spread to many countries outside the Mediterranean Basin, where it has been traditionally present for over 6,000 years. These new olive-growing countries are experiencing further expansion of the industry, due to increased awareness of the nutritional and health properties of extra virgin olive oil.

This book is a much-needed update on olive biology and cultivation, with contributions from leading international experts, and includes:

- Biology
- Genetics and breeding
- Olive propagation and nursery
- Planting new olive orchards
- Horticultural management of olive orchards
- Plant protection
- Olive by-products (wood, leaves)
- Multifunctionality of olive groves and ecosystem services

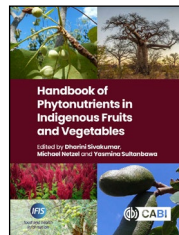
656 pp, 6 in x 9 in**Cloth, Sep 2023, 978 1 78924 733 6, \$ 235.00****FORTHCOMING****Kiwifruit***Botany, Production and Uses***Annette Richardson, Jeremy Burdon, Ross Ferguson**

Kiwifruit science and production has advanced significantly over the last 50 years, with multiple new green-, yellow- and red-fleshed cultivars being commercialized while moving into the era of genomics, sustainability, digital technology and automation.

This book reviews the scientific and technical information published on kiwifruit, their biology and management. It provides a comprehensive reference on the fruit, including their history, genetic material, culture, physiology, pest and disease control, and fruit consumption. Particular attention is given to recent threats and opportunities, including environmental issues, the disease *Pseudomonas syringae* pv. *actinidiae*, new genetics, new growing areas and technology advances. Contributions from a wide range of international specialists ensure coverage of key aspects of kiwifruit and their culture in different environments.

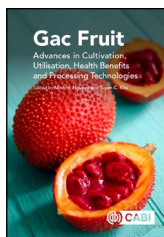
408 pp, 6 in x 9 in**Cloth, Dec 2023, 978 1 80062 091 9, \$215.00****NEW!****Handbook of Phytonutrients in Indigenous Fruits and Vegetables****Edited by Dharini Sivakumar, Michael Netzel and Yasmina Sultanbawa**

This book contains chapters on 33 understudied indigenous fruits and vegetables from all around the world, including African nightshade, amaranth, baobab fruit, Indian gooseberry, red bush apple, and snake melon. Each chapter provides: an overview of plant botany; an understanding of the phytonutrient constituents and health-promoting properties of bioactive compounds or metabolites; information on the biological activity of the functional compounds that will improve productivity and increase utilization of indigenous fruits and vegetables to sustain food security; impacts of postharvest storage, processing, and traditional food preparation methods; and potential for new product development.

448 pp, 6 in x 9 in**Cloth, Mar 2023, 978 1 78924 804 3, \$ 200.00****NEW!****Gac Fruit***Advances in Cultivation, Utilisation, Health Benefits and Processing Technologies***Edited by Minh H. Nguyen and Tuyen Chan Kha**

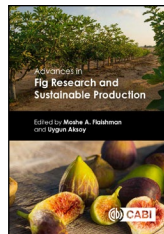
This book provides the latest research on gac fruit, from cultivation through to processing technologies for health products. It addresses several techniques on propagation and cultivation in order to increase the production and quality of Gac fruit, including traditionally used parts of the fruit (aril) and those whose value has not yet been maximized (peel, pulp and seed).

This plant has the potential to be a high value crop, particularly as parts of the fruit can be processed into nutrient supplements and/or natural colorants. It has an exceptional potential in the world carotenoids market of about US \$ 1.4 billion (2017), which will be growing steadily, up to US \$ 6.9 billion by 2026. As such, this book contains special emphasis on: improving production of Gac fruit; novel extraction of Gac oil rich in beta-carotene and lycopene from aril and peel; encapsulation of Gac oil rich in beta-carotene and lycopene; and practical applied technologies such as microwave drying, heat pump drying, freeze drying, ultrasound assisted extraction, supercritical CO2 extraction, encapsulation techniques are all presented.

208 pp, 6 in x 9 in**Cloth, Mar 2023, 978 1 78924 729 9, \$ 170.00****Advances in Fig Research and Sustainable Production****Edited by Moshe A. Flaishman and Uygun Aksoy**

In recent years, increased consumption has caused fig production to shift to new countries such as Mexico, Brazil, India, and China. However, fig is a challenging fruit crop to grow. It is susceptible to insect pests and diseases as well as injuries from abiotic stress during fruit development and ripening. As a delicate fruit it also requires complicated postharvest procedures and climate change presents additional challenges.

Comprising 29 chapters written by international experts, the book includes sections on: history; biology and orchard management; fruit ripening and postharvest management; pests and diseases; omics analysis; cultivars and breeding; and products and trade.

536 pp, 6 in x 9 in**Cloth, 2022, 978 1 78924 247 8, \$ 210.00**

BESTSELLER!

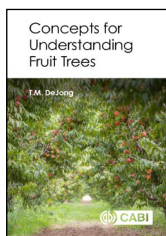
Concepts for Understanding Fruit Trees

Theodore DeJong

This book presents a clear set of integrative concepts for understanding the overall physiology and growth of temperate deciduous fruit trees. The emphasis is on overarching principles rather than detailed descriptions of tree physiology or differences among the numerous species of fruit trees. Although the focus is on deciduous fruit trees many aspects apply to evergreen fruit trees and trees that grow naturally in unmanaged situations.

136 pp, 6 in x 9 in

Paper, 2022, 978 1 80062 086 5, \$ 30.00



Crop Pollination by Bees

Volume 1: Evolution, Ecology, Conservation, and Management

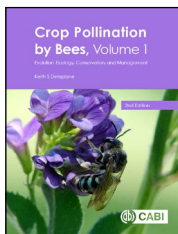
SECOND EDITION

Keith S. Delaplane

This book is a practical research-based guide to using bees for crop pollination. It emphasizes conserving feral bee populations as well as more traditional methods of culturing honey bees and other bees. There are two main sections that address the biology of pollination, and culturing and managing bees for optimum crop pollination. Volume 1 is intended as a practical guide to bees and how they pollinate essential crops, providing simple, succinct advice on how to increase bee abundance and pollination. Volume 2 (forthcoming from CABI) provides the reader with information on bee pollination of specific crops.

208 pp, 7 in x 9 in

Paper, 2021, 978 1 78639 349 4, \$ 69.55



Food Industry 4.0

Unlocking Advancement Opportunities in the Food Manufacturing Sector

Wayne Martindale, Linh N. K. Duong, Sandeep Jagtap and Mark Swainson

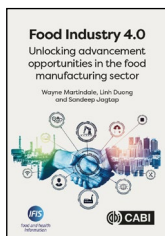
Food Industry 4.0 highlights advancement opportunities for the food manufacturing sector, including innovation in products, processes and services, as it seeks to combine productive, efficient and sustainable practices. The contents address:

- Mapping data, new approaches for food system applications
- The perfect meal and making a balanced global diet possible
- Industry 4.0 applications in the food sector: robotics and automation, big data, Internet of Things, cybersecurity
- Resource utilization in the food manufacturing sector
- Resilience and sustainability in food supply chains
- Environmental and social governance in our food system.

168 pp, 6 in x 9 in

Cloth, 2022, 978 1 80062 103 9, \$ 120.00

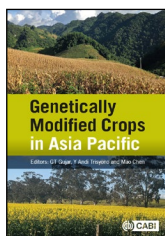
Paper, 2022, 978 1 78924 842 5, \$ 47.50



Genetically Modified Crops in Asia Pacific

Edited by Govind T. Gujar, Y. Andi Trisyono and Mao Chen

Genetically Modified Crops in Asia Pacific discusses the progress of GM crop adoption across the Asia Pacific region over the past two decades, including research, development, adoption and sustainability, as well as the development and cultivation of insect protective Bt brinjal, drought-tolerant sugarcane, late blight resistant potato and biotech rice more specific to this region. Regulatory efforts of the Asia Pacific member nations to ensure the safety of GM crops



to both humans and the environment are also outlined and discussed to provide impetus in other countries initiating biotech crops. The authors also probe into some aspects of gene editing and nanobiotechnology to expand the scope into next generation GM crops, including the potential to grow crops in acidic soil, reduce methane production, remove poisonous elements from plants and improve overall nutritional quality.

344 pp, 6 in x 9 in

Cloth, 2021, 978 1 78924 841 8, \$ 163.65



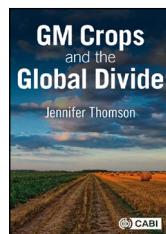
GM Crops and the Global Divide

Jennifer Thomson

GM Crops and the Global Divide traces the historical importance that European attitudes to past colonial influences, aid, trade and educational involvement have had on African leaders and their people. Jennifer Thomson unravels the reasons behind these negative attitudes towards GM crop production. By addressing the detrimental effects that anti-GM opinions have on nutrition in developing countries and providing a clear account of the science to counter these attitudes, she hopes to highlight and ultimately bridge this global divide.

200 pp, 6 in x 9 in

Paper, 2021, 978 1 78924 840 1, \$ 42.25



Hydroponics and Protected Cultivation

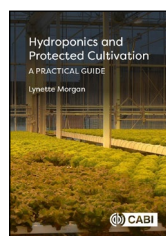
A Practical Guide

Lynette Morgan

A comprehensive, practical text which provides detailed technical information on hydroponic and greenhouse production to help growers and students to design and run their own hydroponic operations. More advanced research is included to explain the factors which influence plant growth, produce quality, post harvest life and advanced hydroponic plant nutrition. What makes this book unique is the additional information on new advances in hydroponic cultivation such as the use of organic nutrients and substrates, the growing trend in the use of completely enclosed indoor plant factories and the growing number of small-scale, non-commercial applications. The book is fully illustrated with color images and photographs to illustrate key topics and help identify problem areas.

312 pp, 6 in x 9 in, Illus. & photos

Cloth, 2021, 978 1 78924 483 0, \$ 69.55



Manual on Postharvest Handling of Mediterranean Tree Fruits and Nuts

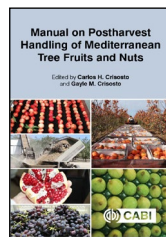
Edited by Carlos H. Crisosto and Gayle M. Crisosto

Postharvest is an important element of getting fresh, high-quality fruit to the consumer and technological advances continue to outpace infrastructure. This book provides valuable, up-to-date information on postharvest handling of seven fruit and nut crops: almond, fig, table grape, pistachio, persimmon, peach and pomegranate.

The book: covers relevant postharvest topics for each crop across harvesting, packing, shipping and retail postharvest phases; has an emphasis on knowledge useful to solve current worldwide industry problems; includes practical recommendations; makes available for the first time in English information previously published in other languages; and includes up-to-date references and high-quality photos that make it an excellent resource for postharvest educators.

160 pp, 6 in x 9 in, photos

Paper, 2020, 978 1 78924 717 6, \$ 63.35



GM Agriculture and Food Security*Fears and Facts*

Stuart Smyth, William A. Kerr and Peter W. B. Phillips

184 pp, 6 in x 9 in

Paper, 2020, 978 1 78639 224 4, \$ 68.65

**Physiology of Vegetable Crops**

Edited by H. Christian Wien and Hartmut Stützel

496 pp, 6 in x 9 in, illus, full color throughout

Cloth, 2020, 978 1 78639 377 7, \$ 221.70

**The Fight Against Food Shortages and Surpluses***Perspectives of a Practitioner*

John McClintock

184 pp, 6 in x 9 in

Paper, 2022, 978 1 80062 121 3, \$ 56.65

**Trichoderma—Ganoderma Disease Control in Oil Palm***A Manual*

Ike Virdiana, Miranti Rahmaningsih, Brian P. Forster and Julie Flood

Techniques in Plantation Science

96 pp, 6 in x 9 in

Paper, 2019, 978 1 78924 145 7, \$ 31.65

**Ecoagriculture for a Sustainable Food Future**

Nicole Y. Chalmer

192 pp, 6 in x 9 in, 3 photos, 3 maps, 1 illus

Paper, 2021, 978 1 48631 341 9, \$ 55.99

**Sustaining Global Food Security***The Nexus of Science and Policy*

Edited by Robert S. Zeigler

560 pp, 6 in x 9 in, color plates, illus, photos

Cloth, 2019, 978 1 48630 808 8, \$ 143.95



BIOTECHNOLOGY & PLANT PRODUCTION

NEW!**Nanoformulations for Sustainable Agriculture and Environmental Risk Mitigation**

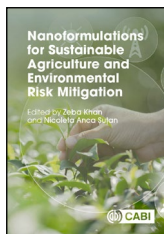
Edited by Zeba Khan and Nicoleta Anca Sutan

The use of nanoformulations in agriculture is increasingly being used to enhance food values, reduce agricultural inputs, improve nutrient contents and create a longer shelf life for many products. Nanotechnology is also being applied to many aspects of food security, disease treatment, new tools for pathogen detection, effective delivery systems and packaging materials. All of these applications are supposed to assist in addressing the needs of a growing population, and help in mitigating the effects of climate change and other ecological disturbances.

Written by an international team of experts from across this broad discipline, this book highlights new applications of these nanofoms in the field of agricultural science. The book: examines the role of nano-formulations in crop yield improvement whilst reducing reliance on chemical fertilizers and pesticides; covers specially enabled delivery systems for the release of nanoformulations, field-sensing systems to monitor environmental stresses, and improvement of plant traits against environmental stress and diseases; and is unambiguous, lucid, scientific and precise, with chapters supplemented by ample illustration and case studies to help clarify and summarize key points throughout.

240 pp, 6 in x 9 in

Cloth, Sep 2023, 978 1 80062 307 1, \$ 130.00

**NEW!****Managing Microorganisms**

David Smith, Matthew J. Ryan and Alan Buddie

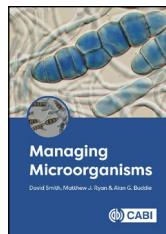
Managing Microorganisms is the standard reference for anyone who works with microorganisms, primarily bacteria and fungi, but also algae and protozoa, yeasts, animal and human cells etc. It is applicable to researchers who maintain their own collections of strains, and those who use a public service culture collection.

The book includes coverage of:

- methods of preservation and characterization for different groups of microorganisms
- best practice guidelines for culture collection management
- how to protect investment in research with microorganisms
- where to source microorganisms
- how to store, handle and distribute microorganisms effectively and safely
- how to design a sustainable business plan for a culture collection
- health and safety issues, and the regulatory environment

424 pp, 6 in x 9 in

Cloth, May 2023, 978 1 80062 211 1, \$ 170.00

**NEW!****Algal Biotechnology**

Qiang Wang

Algal feedstock is a promising resource for bioproduct production, given its high photosynthetic efficiency for producing biomass compared to conventional crops. Microalgae can be used for flue-gas and wastewater bioremediation. This book highlights recent breakthroughs in the multidisciplinary areas of algal biotechnology and the chapters feature recent developments from cyanobacteria to eukaryotic algae, from theoretical biology to applied biology. It also includes the latest advancements in algal-based synthetic biology, including metabolic engineering, artificial biological system construction and green chemicals production. With contributions by leading authorities in algal biotechnology research, it is a valuable resource for graduate students and researchers in the field, and those involved in the study of photosynthesis and green-cell factories.

CABI Biotechnology Series

272 pp, 6 in x 9 in

Cloth, Oct 2023, 978 1 80062 193 0, \$ 155.00

**Biostimulants for Crop Production and Sustainable Agriculture**

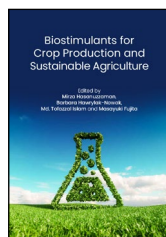
Edited by Mirza Hasanuzzaman, Barbara Hawrylak-Nowak, Tofazzal Islam and Masayuki Fujita

Focusing on recent progress on biostimulants and their role in crop production and agricultural sustainability, this book includes:

- 31 chapters on a wide range of biostimulants and their role in plant growth stimulation and stress tolerance.
- Mechanism of actions of diverse groups of biostimulants, such as trace elements, plant and seaweed extracts, humic substances, polyamines, osmolytes, vitamins, nanoparticles and microorganisms.
- New promising biostimulants with novel modes of action.

368 pp, 6 in x 9 in

Cloth, 2022, 978 1 78924 807 4, \$ 160.00



Gene Flow

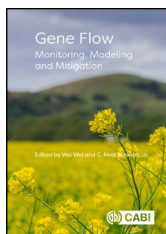
Monitoring, Modelling and Mitigation

Edited by Wei Wei and Neal Stewart

This book examines gene flow of transgenes, such as herbicide resistance genes, with the goal of understanding the factors that may affect the process of gene flow. A greater biological understanding is essential to make sound management regulatory decisions when also taking into consideration the processes that happen in conventional plants. Monitoring, modelling, and mitigation are the three most closely related elements of gene flow. The book includes both scientific reviews and perspectives on gene flow and experimental case studies, including studies of gene flow in soybean and poplar. The authors present diverse views and research methodologies to understand transgene flow.

168 pp, 6 in x 9 in

Cloth, 2021, 978 1 78924 748 0, \$ 123.60



Next-generation Sequencing and Agriculture

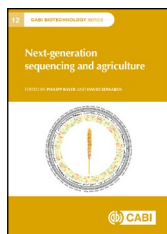
Edited by Philipp Bayer and David Edwards

This book summarizes the impacts that the genome sequencing revolution has had on agriculture with reference to applications across species and locations. It explains new techniques and their use in understanding epigenetics, breeding and conservation. It is a useful resource for scientists wanting to learn how different fields of agriculture have adapted novel genome sequencing technologies to their requirements, and for those wanting to transfer technologies and lessons learned from one field of agriculture to another.

CABI Biotechnology Series

192 pp, 6 in x 9 in

Cloth, 2022, 978 1 78924 782 4, \$ 115.00



Molecular Breeding in Wheat, Maize and Sorghum

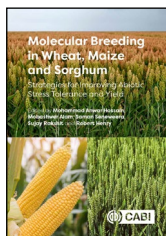
Strategies for Improving Abiotic Stress Tolerance and Yield

Edited by Mohammad Anwar Hossain, Mobashwer Alam, Saman Seneweera, Sujay Rakshit and Robert Henry

Molecular breeding technologies offer real hope for improving crop yields. Although significant progress has been made over the last few years, there is still a need to bridge the large gap between yields in the most favorable and most stressful conditions. This book; provides a valuable resource for wheat, maize and sorghum scientists working on breeding and molecular biology, physiology and biotechnology; presents the latest in-depth research in the area of abiotic stress tolerance and yield improvements; and contains the necessary information to allow plant breeders to apply this research to effectively breed new varieties of these crops.

552 pp, 6 in x 9 in

Cloth, 2021, 978 1 78924 543 1, \$ 247.20



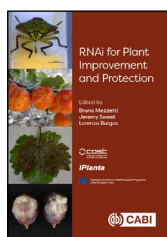
RNAi for Plant Improvement and Protection

Edited by Bruno Mezzetti, Jeremy Sweet and Lorenzo Burgos

Chapters by international experts review current knowledge on RNAi, methods for developing RNAi systems in GM plants and applications for crop improvement, crop production and crop protection. Chapters examine both endogenous systems in GM plants and exogenous systems where interfering RNAs are applied to target plants, pests and pathogens. The biosafety of these different systems is examined and methods for risk assessment for food, feed and environmental safety are discussed. Finally aspects of the regulation of technologies exploiting RNAi and the socio-economic impacts of RNAi technologies are discussed.

216 pp, 6 in x 9 in

Cloth, 2021, 978 1 78924 889 0, \$ 118.45



Biopesticides Manual

Guidelines for Selecting, Sourcing, Producing and Using Biopesticides for Key Pests of Tobacco

K. A. Holmes, Dirk Babendreier, M. Bateman, M. Chaudhary, J. Grunder, M. Mulaa, L. Durocher-Granger and M. Faheem

158 pp, 6 in x 9 in

Paper, 2019, 978 1 78924 202 7, \$ 42.25



Biotechnology of Fruit and Nut Crops

Edited by Richard E. Litz, F. Pliego-Alfaro and J. I. Hormaza

Biotechnology in Agriculture Series

750 pp, 8 in x 10 in, color illus

Cloth, 2020, 978 1 78064 827 9, \$ 337.85



Emerging Trends in Agri-Nanotechnology

Fundamental and Applied Aspects

Edited by Harikesh Bahadur Singh, Sandhya Mishra, Leonardo Fernandes Fraceto and Renata D. de Lima

328 pp, 6.75 in x 9.5 in, tables & color illus

Cloth, 2018, 978 1 78639 144 5, \$ 95.00



Endophyte Biotechnology

Potential for Agriculture and Pharmacology

Edited by Alexander Schouten

CABI Biotechnology Series 8

208 pp, 6 in x 9 in

Cloth, 2019, 978 1 78639 942 7, \$ 147.80



Maize Kernel Development

Edited by Brian A. Larkins

240 pp, 6.75 in x 9.5 in

Cloth, 2018, 978 1 78639 121 6, \$ 168.90

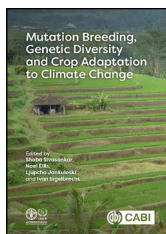


Quantitative Genetics, Genomics and Plant Breeding

Edited by Manjit S. Kang

416 pp, 6 in x 9 in

Cloth, 2020, 978 1 78924 021 4, \$ 184.80



Mutation Breeding, Genetic Diversity and Crop Adaptation to Climate Change

Edited by Sobhana Sivasankar, Thomas Henry Noel Ellis, Ljupcho Jankuloski and Ivan Ingelbrecht

The year 2018 marked the 90th anniversary of induced mutagenesis in plants. The FAO/IAEA International Symposium on Plant Mutation Breeding and Biotechnology held in 2018 reviewed achievements in crop improvement through mutation breeding in several countries across the globe, and discussed innovations in mutation induction, precision phenotyping and genomics applications. Induced genetic variation is important for crop improvement especially in instances where there is limited variation in existing germplasm pools to achieve desired levels of crop performance, and where techniques such as hybridization cannot be easily applied. Its application becomes further significant as the dual threats of population growth and climate change increasingly challenge global food and nutrition security.

In this book an international team of expert authors review achievements, new developments, trends and challenges in the field of plant mutation breeding, across the scientific community and the private sector. Chapters highlight specific challenges, such as emerging transboundary threats to crop production, and assess the overall importance of mutation breeding to food security.

512 pp, 6 in x 9 in

Cloth, 2021, 978 1 78924 909 5, \$ 180.25



SOIL SCIENCE

Plants for Soil Regeneration

An Illustrated Guide

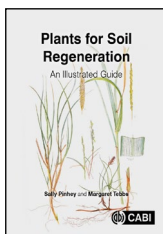
Sally Pinhey and Margaret Tebbs

This book is a comprehensive, beautifully illustrated color guide to the plants which farmers, growers and gardeners can use to improve soil structure and restore fertility without the use and expense of agrichemicals. Information based on the latest research is given on how to use soil conditioning plants to avoid soil degradation, restore soil quality, and help clean polluted land.

There are 11 chapters: 1 to 6 cover soil health, nitrogen fixation, green manures and herbal leys, bacteria and other microorganisms, phytoremediators and soil mycorrhiza (plant-fungal symbiosis). Chapter 7 has plant illustrations, with climate range and soil types, along with their soil conditioning properties and each plant is presented with a comprehensive description opposite a detailed illustration, in full color. Chapters 8 to 10 examine soil stabilizers, weeds and invasive plants, and hedges and trees, and the final chapter, contains 5 case studies with the most recent data, followed by an appendix and glossary. The book allows the reader to identify the plants they need quickly and find the information necessary to begin implementation of soil regeneration.

168 pp, 7 in x 9 in, color illus.

Cloth, 2022, 978 1 78924 360 4, \$ 75.00



Understanding Soils in Urban Environments

SECOND EDITION

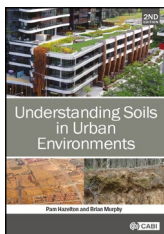
Pam Hazelton and Brian Murphy

Understanding Soils in Urban Environments is a concise book explaining how urban soils develop, change, and erode. Since the first edition was published in 2011, it has been used across a wide range of disciplines, many of which require an understanding of urban soil and specific soil properties that cause environmental concern. Urban soils are now recognized as much more important than they were ten years ago, when they were seen as a poor relation to agriculture. The need for better understanding of all aspects of this topic has become evident especially at conferences in the last 5 years in Australia and internationally, where urban soils are now included as specific sections, not just as subsets such as contamination.

This new edition updates and expands on the original text, including a specific chapter on the use of manufactured soil for rehabilitation and recreation, and additional case studies in other chapters, particularly on contamination. The text is also updated to address the increasing importance of soil health for seed banks and parklands, and its implications for planning developments, the legal determination of bioregions, and addressing environmental issues that can arise from mismanagement of urban soils.

200 pp, 6 in x 9 in

Cloth, 2022, 978 1 78924 993 4, \$ 123.60



Healthy Soils for Healthy Vines

Soil Management for Productive Vineyards

Robert E. White and Mark P. Krstic

240 pp, 6 in x 9 in

Cloth, 2019, 978 1 78924 316 1, \$ 110.90



The Australian Soil Classification

R. F. Isbell and The National Committee on Soils and Terrain

Australian Soil and Land Survey Handbooks Series 4

200 pp, 6 in x 9 in, 14 maps, 3 illus

Paper, 2021, 978 1 48631 477 5, \$ 43.99



AGRICULTURE & AGRIBUSINESS

A Manual for Agribusiness Value Chain Analysis in Developing Countries

Benjamin Dent and Ray Collins

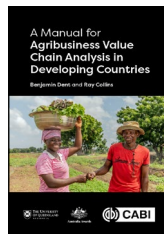
Value Chain Analysis (VCA) diagnoses the current state of a value chain and makes recommendations to improve its effectiveness and efficiency. Applying VCA in developing countries is very often subject to limited time and funding. This manual shows how VCA principles can be applied under such circumstances. It explains how to undertake affordable VCA that still generate valid data and so produce recommendations that will have impact.

The manual has four parts:

- Part 1: Our Approach to Value Chain;
- Part 2: Conducting Value Chain;
- Part 3: Case Studies; and
- Part 4: Further Reading and Biographies

128 pp, 6 in x 9 in

Paper, 2021, 978 1 78924 936 1, \$ 36.05



Applied Crop Physiology

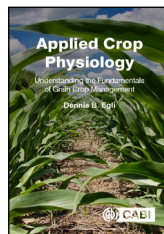
Understanding the Fundamentals of Grain Crop Management

Dennis B. Egli

This book presents a simple, straightforward discussion of the principles and processes involved in the production of grain yield by agronomic crops, and how these processes underlie and influence management decisions. The focus is principally on maize and soybean, although the general principles apply equally well to cereals, grain legumes and oil crops. The contents include: basic plant growth processes e.g. photosynthesis, respiration, evapotranspiration; growth and production of yield; crop management—seed quality, variety selection, plant date, row spacing; and crop production in the future—climate change, GMOs, precision data and new crops

192 pp, 6 in x 9 in

Cloth, 2021, 978 1 78924 595 0, \$ 108.15



Conservation Agriculture in Africa

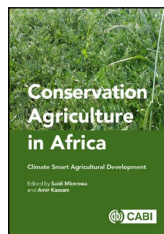
Climate Smart Agricultural Development

Edited by Saidi Mkomwa and Amir H. Kassam

This landmark volume is based on the material presented at the Second Africa Congress on Conservation Agriculture which was held in Johannesburg, South Africa, 9-12 October 2018. The main theme of the Congress was "Making Climate Smart Agriculture Real in Africa with Conservation Agriculture: Supporting the Malabo Declaration and Agenda 2063." The Congress was aligned to mobilize stakeholders in all agriculture sectors to provide development support, impetus and direction to the vision and agenda for transforming African agriculture as set out by the Malabo Declaration and Agenda 2063.

512 pp, 6 in x 9 in

Cloth, 2022, 978 1 78924 574 5, \$ 245.00



Controlled Atmosphere Storage of Fruit and Vegetables

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

430 pp, 6.75 in x 9.6 in, four-color illus
Cloth, 2019, 978 1 78639 373 9, \$ 95.00



Sustainable Bamboo Development

Z. Zhu and W. Jin

320 pp, 6.75 in x 9.5 in, table & color illus
Cloth, 2018, 978 1 78639 401 9, \$ 79.20



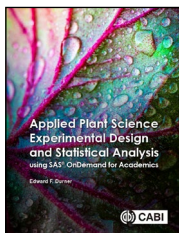
REFERENCE & RESEARCH

Applied Plant Science Experimental Design and Statistical Analysis Using SAS® OnDemand for Academics

Edward F. Durner

This is a user-friendly guide to statistics using SAS® OnDemand for Academics, ideal for facilitating the design and analysis of plant science experiments. It presents the most frequently used statistical methods in an easy-to-follow and non-intimidating fashion, and teaches the appropriate use of SAS® within the context of plant science research. This book covers experimental designs and data analysis protocols; is presented as a how-to guide with many examples; includes freely downloadable data sets; and examines key topics such as merging data frames, multivariate analysis and linear regression.

392 pp, 7 in x 9 in
Cloth, 2021, 978 1 78924 992 7, \$ 130.00
Paper, 2021, 978 1 78924 598 1, \$ 55.00



Encyclopedia of Scale Insect Pests

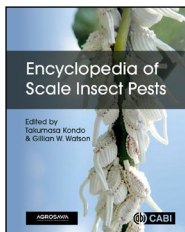
Edited by Takumasa Kondo and Gillian Watson

The Encyclopedia of Scale Insect Pests is the most comprehensive work on worldwide scale insect pests, providing detailed coverage of the most important species (230 species in 26 families, 36% of the species known). Advice is provided on collection, preservation, slide-mounting, vouchering, and labelling of specimens, fully illustrated with color photographs, diagrams and drawings.

Pest species are presented in two informal groups of families, the 'primitive' Archaeococcids followed by the more 'advanced' Neococcids, covered in phylogenetic order. Each family is illustrated and diagnosed based on features of live and slide-mounted specimens, with information on numbers of genera and species, main hosts, distribution, and biology.

For the important pest species, coverage includes information on the morphology of live and slide-mounted specimens, common names, principal synonyms, geographical distribution, plant hosts, plant damage and economic impact, reproductive biology, dispersal, and management strategies including biological, cultural and chemical control, sterile insect techniques, regulatory control, early warning systems and field monitoring. An additional complete list of scale insect pests worldwide is provided, comprising 642 species in 28 scale insect families (about 8% of the 8396 species of living scales known), with information on plant hosts, geographical distribution and validation sources.

720 pp, 8.5 in x 11 in, illus; diagrams; color photos
Cloth, 2022, 978 1 80062 064 3, \$ 370.00



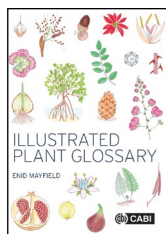
Illustrated Plant Glossary

Enid Mayfield

"A good botanical glossary—and by good, I mean one that is both useful and used often—is a potent mix of art and science. In this case, the art is both literal, through Enid Mayfield's beautifully soft and precise watercolours, and in the exquisite way the definitions are crafted and presented. The science of course is in the detail, and this is exceptional.

The result is more than a charming addition to my bookshelf. It will now unseat my previous glossary of choice (from Kew Gardens no less) and sit proudly beside Benjamin Daydon Jackson's *Glossary of Botanical Terms*, a masterwork of science but not of art."—PROFESSOR TIM ENTWISLE, *Royal Botanic Gardens, Melbourne, Australia*

332 pp, 8 in x 11 in
Paper, 2021, 978 1 80062 067 4, \$ 51.50

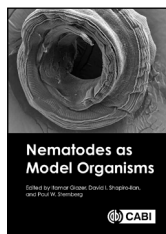


Nematodes as Model Organisms

Edited by Itamar Glazer, David I. Shapiro-Ilan and Paul W. Sternberg

The book summarizes the importance of nematodes as model organisms in the fields of genetics, developmental biology, neurobiology, pharmacology, nutrition, ecology and parasitology. Of interest to a broad audience across a wide spectrum of disciplines, this book is useful for biologists working on comparative studies to investigate biological processes across organisms; medical scientists and pharmacologists for exploration of drugs and medicine (including the use of genome editing to eliminate diseases); ecologists considering nematodes as indicators for environment changes; and parasitologists for host-parasite interactions.

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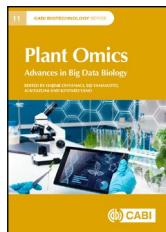
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Edited by Hajime Ohyanagi, Kentaro Yano, Eiji Yamamoto and Ai Kitazumi

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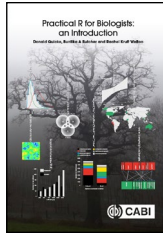


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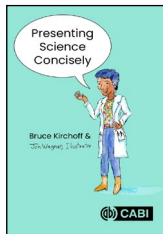
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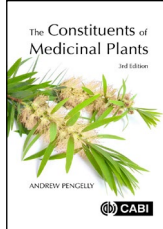
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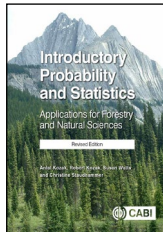
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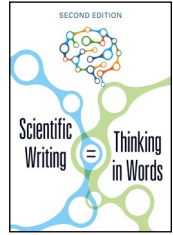
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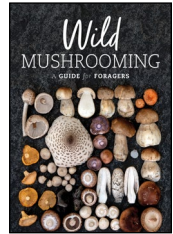
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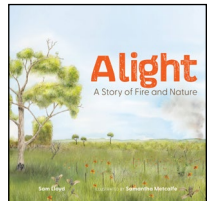
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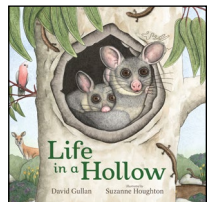
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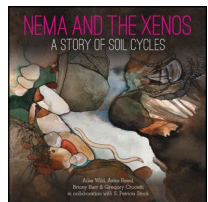
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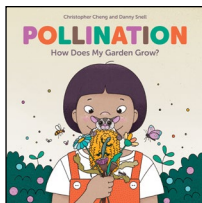
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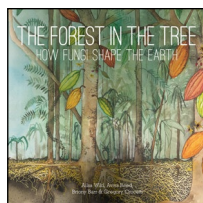
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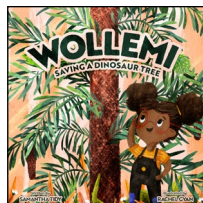
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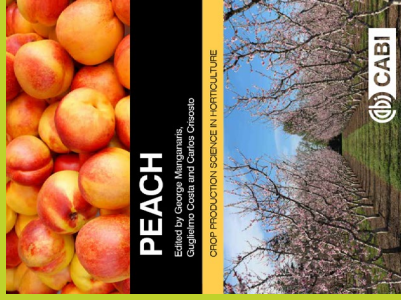
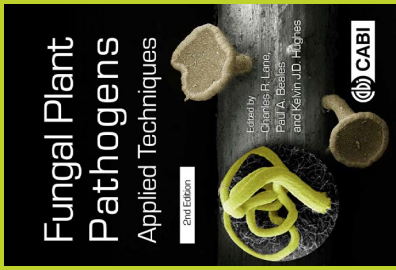
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