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CABI TITLES

FORTHCOMING

Insect Pest Management

THIRD EDITION

David R. Dent and Richard H. Binks

This undergraduate and postgraduate textbook covering the key principles, methodologies, approaches and practical examples of insect pest management in agricultural, post harvest systems, horticulture, insect vectors and medical and veterinary entomology, featuring the underpinning monitoring and forecasting of pest outbreaks; yield loss and impact assessments and all of the latest methods of control and management of insects from insecticides; host manipulation; plant resistance; biological control; use of interference; agronomic precision control methods; and socio-economic and research management aspects of developing integrated approaches to pest management. The new edition also reflects the key advances made in the disciplines of molecular biology, biochemistry and genomics related to insects and their management, as well as the importance and role of biodiversity, climate change, precision agriculture, data management and sustainability of production and supply in delivering integrated management solutions.

408 pp, 7 in x 9 in

Cloth, Dec 2020, 978 1 78924 105 1, \$ 175.00

Paper, Dec 2020, 978 1 78924 104 4, \$ 70.00



NEW!

Butterfly Biology Systems

Connections and Interactions in Life History and Behaviour

Roger L. H. Dennis

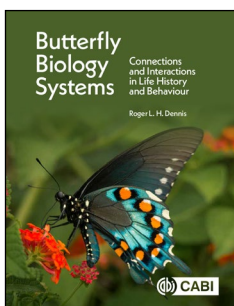
Butterflies, among key animals for assessing environmental changes, have consequently also become prominent model organisms for the study of trade-offs in life history and behavioral traits. Examples include factors affecting the size of egg batches, fast or slow larval growth, waiting or searching for mates, migrating or staying put in the habitat, roosting alone or together in aggregations, and the development of different defense mechanisms. The book focuses on the factors and trade-offs leading to the development and evolution of distinct traits emerging in the life cycle of butterflies within their habitats.

The first section deals with the study of relationships in biological systems. The second is an introduction to key aspects of butterfly biology, such as broad issues in taxonomy, the fossil record, variation in space-time, habitat and niche, and the butterfly body frame. The last two longer sections deal directly with the key puzzles in life history and behavior.

The book is supported by an extensive glossary and bibliography and, to encourage incentives for ideas, it is liberally illustrated with diagrams for exploring in greater depth the relationships in butterfly biology.

472 pp, 7 in x 9 in, illus

Cloth, Nov 2020, 978 1 78924 357 4, \$ 210.00



NEW!

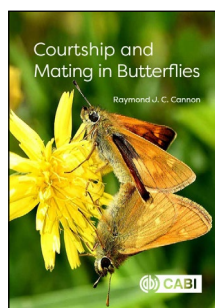
Courtship and Mating in Butterflies

R. J. Cannon

This book presents a readable account of butterfly behavior, based on field observations, great photographs and the latest research. The main focus is on courtship and mating—including perching, searching and territorial behavior—but to understand these subjects it is necessary to explain how mates are chosen and this requires sections on wing colors and patterns. A chapter on butterfly vision is also essential in terms of how butterflies see the world and each other. There have been exciting discoveries in all of these fields in recent years, including: butterfly vision (butterfly photoreceptors), wing patterns (molecular biology), wing coloration (structural colors and nano-architecture), mating strategies and female choice (ecology and behavior).

384 pp, 6 in x 9 in, illus & 242 color photos

Cloth, Jan 2020, 978 1 78924 263 8, \$ 135.00



FORTHCOMING

Ecological and Economic Entomology

A Global Synthesis

Brian Freeman

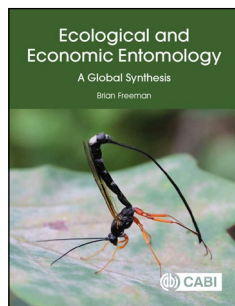
Ecological and Economic Entomology is a comprehensive advanced text covering all aspects of the role of insects in natural ecosystems and their impacts on human activity.

The book is divided into two sections. The first section begins with an outline of the structure, classification and importance of insects, followed by the geographical aspects of plant distribution and the complex defenses plants marshal against herbivorous insects. Insect pests affecting plant roots, stem, leaf, and reproductive systems are covered in a comprehensive review. This section also covers insects that are important in medical and veterinary science, paying particular attention to those that transmit pathogens. The section concludes with the beneficial aspects of insects, especially their use in biological control, but also as soil formers and their importance in forensic science.

Autecology (or single-species ecology) and its application to pest management is the focus of the second section of the book. First, some general aspects of autecology are examined, including species abundance, competition and speciation, and relevant genetics. The classic general theories of insect population dynamics are reviewed, followed by chapters on life tables, time series analysis and mathematical models in insect populations. The final chapter reviews the application of autecology to the insect pests of forests, farms and orchards and to the control of insect vectors of diseases of humans and livestock. Particular attention is paid to environmentally friendly methods of pest management and the application of Integrated Pest Management (IPM) techniques.

784 pp, 7 in x 9 in

Cloth, Dec 2020, 978 1 78924 118 1, \$ 275.00



Key Questions in Ecology

These books have been produced in a convenient format so that they can be used at any time in any place. The 600 multiple-choice questions (and answers) are set for three levels—foundation, intermediate and advanced. They allow the reader to learn and revise the meaning of terms used in applied ecology and conservation, study the effects of pollution on ecosystems, the management, conservation and restoration of wildlife populations and habitats, urban ecology, global environmental change, environment law and much more. The books' structure allows the study of one topic area at a time, progressing through simple questions to those that are more demanding. Many of the questions require students to use their knowledge to interpret information provided in the form of graphs, data or photographs.

Key Questions in Applied Ecology and Conservation

A Study and Revision Guide

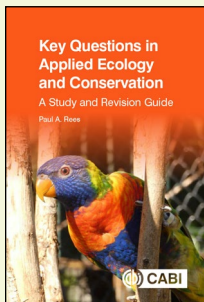
Paul A. Rees

Topics:

- History and foundations of applied ecology and conservation
- Environmental pollution and perturbations
- Wildlife and conservation biology
- Restoration biology and habitat management
- Agriculture, forestry and fisheries management
- Pest, weed and disease management
- Urban ecology and waste management
- Global environmental change
- Environmental and wildlife law and policy
- Environmental assessment, monitoring and modelling

160 pp, 6 in x 9 in

Paper, Feb 2021, 978 1 78924 849 4, \$ 27.95



Key Questions in Ecology

A Study and Revision Guide

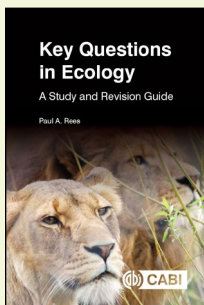
Paul A. Rees

Topics:

- The history and foundations of ecology
- Abiotic factors and environmental monitoring
- Taxonomy and biodiversity
- Energy flow and production ecology
- Nutrient and material cycles
- Ecophysiology
- Population ecology
- Community ecology and species interactions
- Ecological genetics and evolution
- Ecological methods and statistics

200 pp, 6 in x 9 in

Paper, Oct 2020, 978 1 78924 757 2, \$ 27.95



FORTHCOMING

Urban Ecology

Its Nature and Challenges

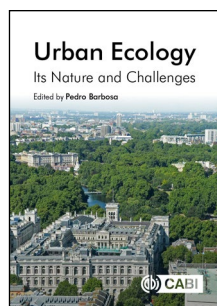
Edited by Pedro Barbosa

By 2030, up to 90% of the global human population will live in cities and the global population is expected to increase by 68% by 2050. Although land cover categorized as "urban" is a relatively small fraction of the total surface of the Earth, urban areas are major driving forces in global environmental change, habitat loss, threats to biodiversity, and the loss of terrestrial carbon stored in vegetation biomass. These and many other factors highlight the need to understand the broad-scale impacts of urban expansion as it effects the ecological interactions between humans, wildlife and plant communities.

In a series of essays by leading experts this book defines urban ecology, and provides much-needed focus on the main issues of this increasingly important subdiscipline such as the impacts of invasive species, protecting pollinators in urban environments, the green cities movement and ecological corridors. The book stresses the importance of understanding ecological forces and ecosystem services in urban areas and the integration of ecological concepts in urban planning and design. The creation of urban green spaces is critical to the future of urban areas, enhancing human social organization, human health and quality of life.

256 pp, 6 in x 9 in

Cloth, Jan 2021, 978 1 78924 260 7, \$ 120.00



NEW!

Insect Conservation

A Global Synthesis

Michael J. Samways

Insect Conservation: A Global Synthesis is a landmark, field-defining work written by Professor Michael Samways, one of the founding fathers of this burgeoning discipline of conservation science. It presents a state-of-the-art, comprehensive review of the entire field of insect conservation, from single-species conservation to whole-ecosystem approaches, and from natural ecosystems to the urban landscape.

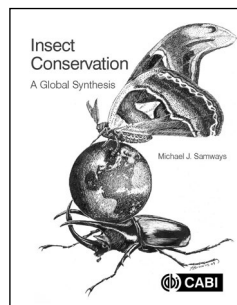
Insect populations worldwide are under threat. Human-mediated degradation of natural habitats, pollution, over-use of pesticides, and the spread of urbanization has led to the collapse of insect populations in many areas of the world. A growing recognition of the importance of insects in natural and agricultural systems has stimulated the development of an entire discipline dedicated to their conservation.

Insect Conservation: A Global Synthesis is designed to be used by students of conservation biology and ecology, but also serves as an essential overview for professional entomologists with an interest in conservation, and for conservationists interested in insects. The book communicates on three levels: (i) through the text, with extensive references providing a gateway to the ever-increasing primary literature; (ii) through the extensive use of carefully constructed illustrations, with detailed captions which act to summarize the text and are complete in their own right; and (iii) through focused key points at the end of every chapter, which summarize the main learning points for students.

600 pp, 7 in x 9 in, illus

Cloth, 2019, 978 1 78924 168 6, \$ 205.00

Paper, 2019, 978 1 78924 167 9, \$ 90.00



Text

NEW!

Asian Citrus Psyllid

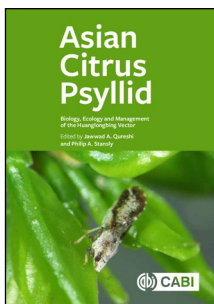
Biology, Ecology and Management of the Huanglongbing Vector

Edited by
Jawwad A. Qureshi and
Philip A. Stansly

Asian citrus psyllid (ACP), *Diaphorina citri*, is an insect pest which transmits a bacterium, *Candidatus liberibacter asiaticus* (Clas), through newly emergent foliage of citrus trees. This causes a disease known as Huanglongbing (HLB), which has become the most debilitating and intractable disease in citrus crops.

This book, written by a team of experts on the Asian citrus psyllid, gathers together everything currently known about the biology and ecology of this important pest species, examines the transmission and acquisition processes of the pathogen, and looks at current management practices and their effectiveness. The potential for new, innovative management techniques are also described along with the economic implications of managing this rapidly establishing disease.

352 pp, 6 in x 9 in
Cloth, Aug 2020, 978 1 78639 408 8, \$ 135.00

**NEW!**

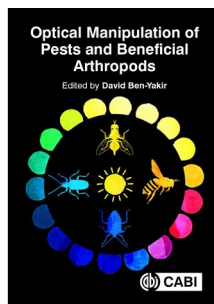
Optical Manipulation of Pests and Beneficial Arthropods

Edited by
David Ben-Yakir

Arthropods affect livestock, human health and food supplies around the world. This unique book examines and reviews how light and color can be used to enhance pest management in agricultural and medical applications by manipulating the optical responses of arthropods.

Arthropods use optical cues to find food, oviposition sites and to navigate. Light also regulates their diurnal and seasonal activities. Plants use optical cues to attract or deter various species of arthropod. In this book, an international team of experts show how light can be used successfully to attract, arrest, confuse and deter arthropods as well as to disrupt their biological clocks. The book: presents an up-to-date and thorough summary of what is known about how arthropods of agricultural and medical importance respond to visual cues; describes techniques that use light to manipulate pests and beneficial insects and mites; and presents a broad discussion of the potential use of optical manipulation of arthropods to improve the health of plants, domestic animals and humans.

192 pp, 6 in x 9 in
Cloth, Aug 2020, 978 1 78639 470 5, \$ 120.00

**NEW!**

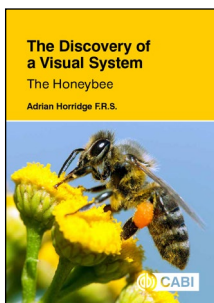
The Discovery of a Visual System – The Honeybee

Adrian Horridge

This book is the only account of what honeybees actually see. Bees detect some visual features such as edges and colors, but there is no sign that they reconstruct patterns or put together features to form objects. Bees detect motion but have no perception of what it is that moves, and certainly they do not recognize “things” by their shapes. Yet, even with their minute brains, they clearly see well enough to fly and find food. The surprising conclusion is that bee vision is adapted to the recognition of places, not things.

In this volume, Adrian Horridge also sets out the curious and contentious history of how bee vision came to be understood, with an account of a century of neglect of old experimental results, errors of interpretation, sharp disagreements, and failures of the scientific method. The design of the experiments and the methods of making inferences from observations are also critically examined, with the conclusion that scientists are often hesitant, imperfect and misleading, ignore the work of others, and fail to consider alternative explanations. The erratic path to understanding makes interesting reading for anyone with an interest in the workings of science but particularly those researching insect vision and invertebrate sensory systems.

256 pp, 6.75 in x 9.75 in, illus
Cloth, 2019, 978 1 78924 089 4, \$ 140.00

**NEW!**

Transcriptomics in Entomological Research

Edited by Matan Shelomi

Bridging the gap between genome and phenotype, the transcriptome is a molecular-level snapshot of the act of living. Transcriptomics shows which genes are expressed into proteins in a specific tissue of a specific organism at a specific time and condition. This book gives an account of the extraordinary diversity of ways transcriptomics has been and can be utilized in basic and applied entomological research. It encompasses a vast range of disciplines within entomology, applying transcriptomics to the study of over one million described species of insects. It covers a vast range of disciplines from phylogenomics to pest management, from ecology to physiology, and from behavior to evolutionary biology. The book covers the breadth and depth of transcriptomics use in research to showcase the utility of this technology in all disciplines. Research examples in the book are relevant to fish, birds, plants, and fungi, as well as insects and other arthropods, helping scientists in any field, using any system, to understand what transcriptomics can do for them.

224 pp, 6 in x 9 in
Cloth, Jan 2020, 978 1 78924 313 0, \$ 135.00



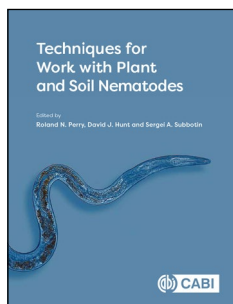
FORTHCOMING

Techniques for Work with Plant and Soil Nematodes

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

Techniques for Work with Plant and Soil Nematodes is an up-to-date, comprehensive book covering the practicalities of working with and studying soil and plant nematodes. Written by an international team of experts, this book is highly illustrated and provides thorough coverage of methods while allowing for relevant information to be located quickly. It includes the fundamental traditional techniques and new methodologies, covering: sampling; extraction; estimating numbers; handling, fixing, staining, mounting; culturing techniques; figure preparation, measurement and image processing; electron microscopy techniques; behavioral and physiological assays; and cytogenetic, biochemical and molecular biology techniques. This book is an essential resource for anyone involved in plant nematology needing to refer to a readily available methodology standard, including students of nematology and parasitology, university lecturers and researchers, diagnostic laboratories, and quarantine and advisory service personnel. It provides a much needed compendium of the spectrum of information needed to work with these microscopic organisms.

376 pp, 7 in x 9 in, illus
Cloth, Feb 2021, 978 1 78639 175 9, \$ 130.00



NEW!

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

The book summarizes the history of biological control in Latin America and the Caribbean. Few publications provide historical detail and the records, therefore, have been fragmented until now. By bringing information together in this book, we offer a more complete picture of important developments in biological control on this continent. There are a wealth of text, tables and references about the history of such projects, and which were successful and which failed. This will help plan future biocontrol projects. An overview is provided of the current situation in biological control for many Latin American and Caribbean countries, revealing an astonishing level of practical biological control applied in the region, making it the largest area under biological control worldwide. The final part describes new developments and speculates about the future of biological control in Latin America and the Caribbean.

520 pp, 6 in x 9 in
Cloth, Jan 2020, 978 1 78924 243 0, \$ 225.00



FORTHCOMING

Biology and Management of the German Cockroach

Edited by Changlu Wang, Chow-Yang Lee and Michael Rust

The German cockroach continues to be one of the most important indoor urban pests in the world. They contaminate foods, transmit pathogens and produce allergens that trigger asthma. The last seminal publication dedicated to the German cockroach was published in 1995 by Rust, Owens and Reiersen, and numerous advances in management technology, products, delivery system, basic and applied research have occurred over the last two-and-a-half decades. This book summarizes the research on German cockroaches over the last 25 years with an emphasis on its biology and management.

Fourteen authors contributed to this book, including university researchers and one pest management professional. In the preparation of this book, the authors provide a critical review of the research advancements in the past 25 years with the objective of making it a go-to reference on German cockroach biology and management. *Biology and Management of the German Cockroach* will provide the reader with a one-stop compilation of comprehensive understanding into the pest. It will be a valuable reference book to researchers, university professors, graduate students, pest management professionals, health workers, government agencies and even the general public when dealing with pests and pesticides.

304 pp, 6 in x 9 in
Cloth, Jun 2021, 978 1 78924 810 4, \$ 170.00



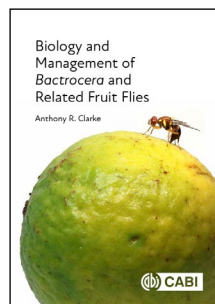
NEW!

Biology and Management of Bactrocera and Related Fruit Flies

Anthony R. Clarke

This broad text provides a rapid introduction to this economically and ecologically important group, which includes species such as the Oriental fruit fly (*B. dorsalis*), Melon fly (*Z. cucurbitae*), Queensland fruit fly (*B. tryoni*) and the Olive fly (*B. oleae*). Broken into three primary sections, it first explores the evolutionary history, systematic relationships, taxonomy and species-level diagnosis of the Dacini flies. The following biology section covers their life history, population demography, behavior and ecology, and natural enemies. The final section of the book covers the management of these flies, with chapters on pre-harvest, post-harvest and regulatory controls. Each chapter concludes with a list of key monographs, papers or book chapters for further reading.

272 pp, 6 in x 9 in
Cloth, 2019, 978 1 78924 182 2, \$ 125.00



FORTHCOMING

Chalcidoidea of Iran

(Insecta - Hymenoptera)

Edited by Hassan Ghahari, Gary Gibson and Gennaro Viggiani

Chalcidoidea are one of the most important natural enemies of agricultural and forest pests all over the world. The first step for application of these beneficial insects in biological control and Integrated Pest Management programs in any country is comprehensive knowledge of the fauna of that country, including not only the known species but also their known distribution and hosts, with reference to the original literature that validates the information.

The necessity of such a comprehensive catalog of the species of Iranian Chalcidoidea is demonstrated by the fact that 797 of the 1,351 species (59%) are not reported from Iran in the online Universal Chalcidoidea Database. The book also provides general information on world diversity, morphological recognition, phylogenetics, and host biology for the 20 (of 23 world) families currently known from Iran. This information is intended as an introduction to these beneficial insects for graduate students, applied entomologists and biological control workers who require the information to utilize the species for economic benefit. Comparison of the fauna of Iran with that reported for 15 neighboring countries also provides broader information on the chalcidoid fauna of the Middle East and Palaearctic Region.

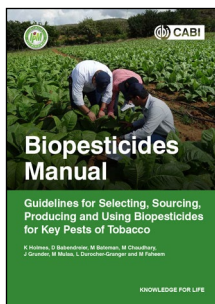
480 pp, 7 in x 9 in
Cloth, Mar 2021, 978 1 78924 846 3, \$ 315.00



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



The *Biopesticides Manual* provides information resources and technical advice in order to support the deployment of biopesticides. It is a one-stop-shop to address the information needs of the key groups who are responsible for selecting, sourcing and using biopesticides in the tobacco production system.

158 pp, 6 in x 9 in
Paper, Jul 2019, 978 1 78924 202 7, \$ 40.00



Pesticide Risk Assessment

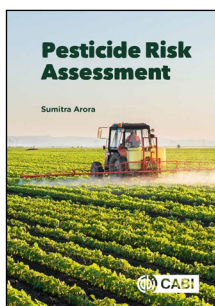
Sumitra Arora

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.
- Covers risks to human health, aquifers and aquatic organisms, pollinators, soil micro flora and fauna, terrestrial organisms and wildlife.

360 pp, 6.75 in x 9.6 in, tables & graphs
Cloth, 2019, 978 1 78064 633 6, \$ 175.00



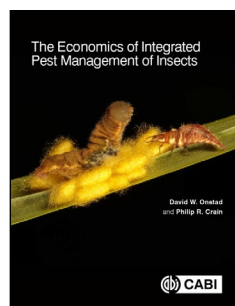
The Economics of Integrated Pest Management of Insects

David W. Onstad and
Philip R. Crain

Many biological studies on insect management do not consider economics or fundamental economic principles. This book brings together economists and entomologists to explain the principles, successes, and challenges of effective insect management. It highlights the importance of economic analyses for decision making and the feasibility of such approaches, and examines integrated pest management (IPM) practices from around the world with an emphasis on agriculture and public health.

The book begins by establishing an economic framework upon which to apply the principles of IPM. It continues to examine the entomological applications of economics, specifically, economic analyses concerning chemical, biological, and genetic control tactics as well as host plant resistance and the cost of sampling and is illustrated with case studies of economic-based IPM programs from around the world.

232 pp, 7 in x 9 in
Cloth, Oct 2019, 978 1 78639 367 8, \$ 120.00

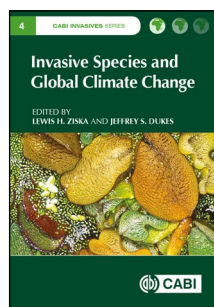


Invasive Species and Global Climate Change

Edited by Lewis H. Ziska
and Jeffery S. Dukes

This book examines what will happen to global invasive species, including plants, animals and pathogens, with current and expected man-made climate change. The effects on distribution, success, spread and impact of invasive species are considered for a series of case studies from a number of countries.

368 pp, 7 in x 9 in, tables & figures
Paper, 2019, 978 1 78639 539 9, \$ 70.00



Community-based Control of Invasive Species

Edited by Paul Martin,
Theodore Alter, Don Hine
and Tanya Howard

Community-Based Control of Invasive Species is based on five years of research by leading scholars in natural resource and human behavioral sciences, which involved government and citizen groups in Australia and the United States. It has chapters on institutional frameworks, changing governance, systems thinking, organizational learning, engagement, communication and behavioral change, this book will be a valuable reference for researchers and practitioners involved in natural resources management.

232 pp, 6 in x 9 in
Cloth, 2019, 978 1 78924 253 9, \$ 105.00

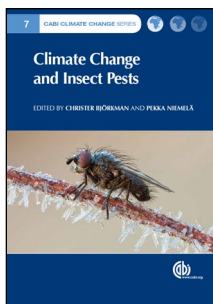


Climate Change and Insect Pests

Edited by Christer Björkman and Pekka Niemelä

It is anticipated that the damage by insects will increase as a consequence of climate change. However, the evidence in support of this common "belief" is sparse. *Climate Change and Insect Pests* sums up present knowledge regarding both agricultural and forest insect pests and climate change in order to identify future research directions.

292 pp, 6.75 in x 9.5 in
Paper, Sep 2020, 978 1 78924 769 5, \$ 55.00



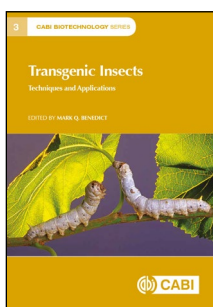
Transgenic Insects

Techniques and Applications

Edited by Mark Q. Benedict

Insect transgenesis promises improvements in agriculture, pharmaceuticals and public health. Many important insects can now be routinely transformed with effectors that have useful applications. Agriculture presents the largest market for transgenic insects and has a foundational history of success with sterile insect technique for control of pests including Mediterranean fruit flies and screwworms. Biotechnology will contribute superior markers, suppressible sterility and sex-conversion. Public health is also seeing transgenic mosquitoes developed which suppress natural populations and are incapable of transmitting disease. In this book, experts in the field contribute their insights into the latest technology and its applications and consider the larger risks, social and economic aspects of transgenic insects whose value must be proven in political, regulatory and public acceptance arenas.

388 pp, 6 in x 9 in, graphs, b/w & color illus and photos
Paper, 2019, 978 1 78639 543 6, \$ 70.00



Urban Insect Pests

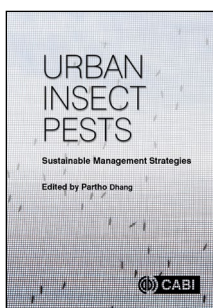
Sustainable Management Strategies

Edited by Partho Dhang

A companion to *Urban Pest Management*, this book builds on the issues of insect pests in urban settings to discuss control strategies that look beyond products.

From an environmental and health perspective, it is not always practical to spray chemicals indoors or in urban settings, so this work discusses sustainable control and best practice methods for managing insects that are vectors of disease, nuisance pests and the cause of structural damage. The book also covers future technologies which would govern the field of urban pest control. The book brings experts from both academic and industry together to contribute providing a balanced overview of the subject.

264 pp, 6 in x 9 in, illus & tables
Paper, 2019, 978 1 78639 540 5, \$ 65.00



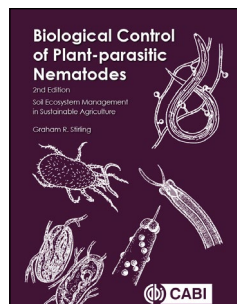
Biological Control of Plant-Parasitic Nematodes

Soil Ecosystem Management in Sustainable Agriculture
SECOND EDITION

Graham R. Stirling

Plant-parasitic nematodes are one of multiple causes of soil-related sub-optimal crop performance. This book integrates soil health and sustainable agriculture with nematode ecology and suppressive services provided by the soil food web to provide holistic solutions. Biological control is an important component of all nematode management programs, and with a particular focus on integrated soil biology management, this book describes tools available to farmers to enhance the activity of natural enemies, and utilize soil biological processes to reduce losses from nematodes.

536 pp, 6 in x 9 in, figures, tables & photos
Paper, 2019, 978 1 78639 533 7, \$ 90.00



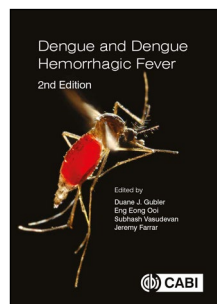
Dengue and Dengue Hemorrhagic Fever

SECOND EDITION

Edited by Duane J. Gubler, Eng Eong Ooi, Subhash Vasudevan and Jeremy Farrar

Continued geographic expansion of dengue viruses and their mosquito vectors has seen the magnitude and frequency of epidemic dengue/dengue hemorrhagic fever (DF/DHF) increase dramatically. Recent exciting research on dengue has resulted in major advances in our understanding of all aspects of the biology of these viruses, and this updated second edition brings together leading research and clinical scientists to review dengue virus biology, epidemiology, entomology, therapeutics, vaccinology and clinical management.

624 pp, 6 in x 9 in, tables & figures
Paper, 2019, 978 1 78639 538 2, \$ 70.00



BACKLIST

Culicipedia

Species-group, Genus-group and Family-group Names in Culicidae (Diptera)

Ralph Harbach

388 pp, 8.625 in x 10.5 in
Cloth, 2018, 978 1 78639 905 2, \$ 290.00

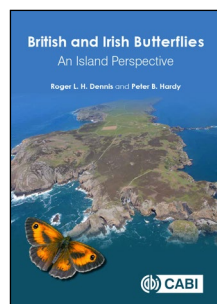


British and Irish Butterflies

An Island Perspective

Roger L. H. Dennis and Peter B. Hardy

400 pp, 6.75 in x 9.5 in, color photos, graphs & charts
Cloth, 2018, 978 1 78639 506 1, \$ 125.00



A History of Pesticides

Graham A Matthews

280 pp, 6.75 in x 9.5 in
Cloth, 2018, 978 1 78639 487 3, \$ 160.00



Urban Pest Control

A Practitioner's Guide

Partho Dhang

144 pp, 7.5 in x 9.625 in, color tables & figures
Paper, 2018, 978 1 78639 514 6, \$ 32.95



The Biology of Mosquitoes

Alan N. Clements

Volume 1: Development, Nutrition and Reproduction

532 pp, 6.875 in x 9.75 in
Cloth, 1992, 978 0 85199 374 4, \$ 265.25

Volume 2: Sensory Reception and Behaviour

752 pp, 6.875 in x 9.75 in
Cloth, 1999, 978 0 85199 313 3, \$ 303.35

Volume 3: Transmission of Viruses and Interactions with Bacteria

584 pp, 6.875 in x 9.75 in, 92 illus
Cloth, 2012, 978 1 84593 242 8, \$ 320.35

Three Volume Set

1868 pp, 6.875 in x 9.75 in
Cloth, 2012, 978 1 84593 837 6, \$ 696.50



Plant Parasitic Nematodes in Subtropical and Tropical Agriculture

THIRD EDITION

Edited by R. 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, \$ 250.00



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, \$ 225.00



Nematodes as Biological Control Agents

Parwinder S Grewal, R Ehlers and D I Shapiro-Ilan

528 pp, 6.875 in x 9.75 in
Paper, 2008, 978 1 84593 454 5, \$ 79.30

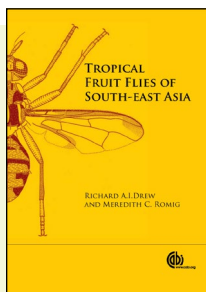


Tropical Fruit Flies of South-East Asia

(*Tephritidae: Dacinae*)

Richard A. I. Drew and Meredith C. Romig

664 pp, 8.75 in x 11.75 in, line illus
Cloth, 2014, 978 1 78064 035 8, \$ 281.15



Keys to the Tropical Fruit Flies of South-East Asia

(*Tephritidae: Dacinae*)

Richard A. I. Drew and Meredith C. Romig

496 pp, 8.625 in x 11 in, illus
Cloth, 2017, 978 1 78064 419 6, \$ 217.35



Aphids as Crop Pests

SECOND EDITION

Edited by Helmut van Emden and Richard Harrington

700 pp, 7.5 in x 9.625 in, figures, graphs & color photos
Cloth, 2017, 978 1 78064 709 8, \$ 298.95



Biocontrol Agents

Entomopathogenic and Slug Parasitic Nematodes

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

660 pp, 7.5 in x 9.625 in, tables, figures & b/w & color illus
Cloth, 2017, 978 1 78639 000 4, \$ 257.50



Biocontrol Agents of Phytonematodes

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

480 pp, 6.25 in x 9.25 in
Cloth, 2015, 978 1 78064 375 5, \$ 286.35



Biocontrol of Major Grapevine Diseases

Leading Research

Edited by Stéphane Compant and Florence Mathieu

256 pp, 7.5 in x 9.625 in
Cloth, 2016, 978 1 78064 712 8, \$ 169.95



Biological and Environmental Control of Disease Vectors

Edited by Mary M. Cameron and Lena M. Lorenz

232 pp, 6.75 in x 9.5 in
Cloth, 2013, 978 1 84593 986 1, \$ 187.95



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Pest Management and Regulation

Alastair Bailey, David Chandler, Wyn Grant, W.P. Grant, Justin Greaves, Gillian Prince and Mark Tatchell

200 pp, 6.875 in x 9.75 in
Paper, 2013, 978 1 84593 977 9, \$ 77.20



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

386 pp, 8.5 in x 11 in, figures & graphs
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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 9.5 in
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Vincenzo Vacante

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Cloth, 2010, 978 1 84593 498 9, \$ 210.05



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Edited by Matthew P. Reynolds

308 pp, 6.75 in x 9.5 in
Paper, 2017, 978 1 78639 308 1, \$ 75.00



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Edited by Partho Dhang

200 pp, 6.75 in x 9.5 in
Cloth, Jan 2017, 978 1 78064 537 7, \$ 132.80



Fungi as Biocontrol Agents

Progress, Problems and Potential

Tariq Butt, Chris Jackson and Naresh Magan

416 pp, 6.875 in x 9.75 in
Cloth, 2001, 978 0 85199 356 0, \$ 253.40



Global Pesticide Resistance in Arthropods

M E Whalon, David Mota-Sanchez and R M Hollingworth

208 pp, 6.875 in x 9.75 in
Cloth, 2008, 978 1 84593 353 1, \$ 198.30



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, \$ 386.20



The Handbook of Naturally Occurring Insecticidal Toxins

Opender Koul

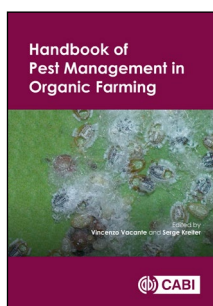
864 pp, 6.75 in x 9.5 in
Cloth, 2016,
978 1 78064 270 3, \$ 313.05



Handbook of Pest Management in Organic Farming

Edited by Vincenzo Vacante and Serge Kreiter

576 pp, 6.75 in x 9.5 in
Cloth, 2017,
978 1 78064 499 8,
\$ 290.00



Hemp Diseases and Pests

Management and Biological Control

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

272 pp, 6 in x 9.5 in, line illus, b/w & color photos
Cloth, 2000, 978 0 85199 454 3, \$ 165.80



Insect Conservation Biology

Alan J A Stewart, Timothy R New and Owen T Lewis

464 pp, 6.875 in x 9.75 in
Cloth, 2007, 978 1 84593 254 1, \$ 231.25



Insect Pests in Tropical Forestry

SECOND EDITION

F. Ross Wylie and Martin R. Speight

376 pp, 6.25 in x 9.75 in, 152 b/w & 128 color illus
Paper, 2012, 978 1 84593 635 8, \$ 79.30



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

Edited by Gadi V. P. Reddy

408 pp, 7.5 in x 9.625 in
Cloth, 2017, 978 1 78064 820 0, \$ 298.95



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Principles and Practice

Edited by Dharam P. Abrol and Uma Shankar

512 pp, 6.75 in x 9.5 in
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Integrated Pest Management in Tropical Regions

Edited by Carmelo Rapisarda and G. Massimino Cocuzza

312 pp, 6.75 in x 9.5 in
Cloth, 2017, 978 1 78064 800 2, \$ 160.00



Pest Risk Modelling and Mapping for Invasive Alien Species

Edited by Robert C. Venette

256 pp, 6.75 in x 9.5 in, figures
Cloth, 2015, 978 1 78064 394 6, \$ 176.10



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Concepts and Application

Edited by Christina Devorshak

296 pp, 6.875 in x 9.75 in, 17 b/w & color illus
Cloth, 2013, 978 1 78064 036 5, \$ 165.80



Potential Invasive Pests of Agricultural Crops

Edited by Jorge E. Peña

496 pp, 6.875 in x 9.75 in, 141 illus
Cloth, 2013, 978 1 84593 829 1, \$ 253.40

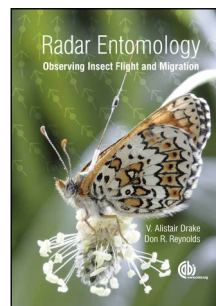


Radar Entomology

Observing Insect Flight and Migration

V. Alistair Drake and Don R. Reynolds

512 pp, 6.25 in x 9.75 in,
143 illus
Cloth, 2013,
978 1 84593 556 6,
\$ 336.30



Review of Invertebrate Biological Control Agents Introduced into Europe

Esther Gerber and Urs Schaffner

208 pp, 6.125 in x 9.5 in, graphs & tables
Cloth, 2016, 978 1 78639 079 0, \$ 169.95



Root-knot Nematodes

Edited by Roland N. Perry, Maurice Moens and James L Starr

520 pp, 6.875 in x 9.75 in, 120 color illus
Cloth, 2010, 978 1 84593 492 7, \$ 243.05



Temperature Adaptation in a Changing Climate

Nature at Risk

Edited by Kenneth B. Storey and Karen K. Tanino

256 pp, 6.75 in x 9.75 in, 40 illus
Cloth, 2012, 978 1 84593 822 2, \$ 187.95



Ticks and Tick-Borne Diseases

Geographical Distribution and Control Strategies in the Euro-Asia Region

Edited by Mo Salman and Jordi Tarrés-Call

320 pp, 6.75 in x 9.25 in, 87 illus
Cloth, 2013, 978 1 84593 853 6, \$ 210.05



Urban Pest Management

An Environmental Perspective

Edited by Partho Dhang

280 pp, 6.875 in x 9.75 in, 10 illus

Cloth, 2011, 978 1 84593 803 1, \$ 187.95



CSIRO / INSECTS OF AUSTRALIA

FORTHCOMING

Australian Weevils

(Coleoptera – Curculionoidea)

VOLUME IV: CURCULIONIDAE: ENTIMINAE PART I

Rolf Oberprieler and Elwood Zimmerman

Australian Weevils: Volume IV covers the 11 smaller tribes of the weevil subfamily Entiminae (broad-nosed weevils), which comprises more than 100 genera and 700 described species in Australia.

All the introduced species of *Entiminae* in Australia, most of which are regarded as agricultural or horticultural pests, are included, as are descriptions of 12 new genera and eight new species and identifications of about another 240 undescribed species. The book also includes an overview of the salient characters of the *Entiminae*, illustrated on 18 color plates of diagnostic features needed for identifying these weevils, alongside a further 180 color plates illustrating the habitus and genitalia of all the genera and of several other species and their diagnostic characters. The volume further includes an obituary and full publication list of the late Elwood C. Zimmerman as well as an updated list of recent literature on the Australian Entiminae and other weevils.

664 pp, 6 in x 9 in, illus & color photos

Cloth, Mar 2021, 978 0 64305 148 5, \$ 133.95



NEW!

Hawkmoths of Australia

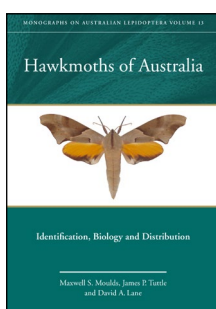
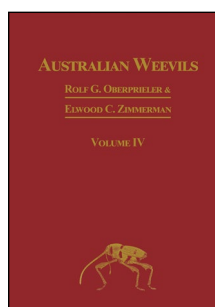
Identification, Biology and Distribution

Maxwell S. Moulds, James P. Tuttle and David A. Lane

Hawkmoths of Australia allows identification of all of the Australian hawkmoths for the first time and treats species found on mainland Australia, Tasmania and all offshore islands within Australian limits. It presents previously undescribed life histories of nearly all species and provides a comprehensive account of hawkmoth biology, including new parasitoids and their hawkmoth hosts. Detailed drawings and photographs show the external and internal morphology of adults and immatures, and eggs, larval instars and pupa. Keys are provided for last instar larvae and pupae of the 71 species that the authors have reared. The book is concluded by a glossary, appendices to parasitoids and larval foodplants, an extensive reference list with bibliographical notes and a comprehensive index.

424 pp, 8 in x 11 in, 79 color plates, 86 maps, 18 photos, 27 illus.

Cloth, Feb 2020, 978 1 48630 281 9, \$ 174.95



Australian Beetles

Edited by Adam Slipinski and John F. Lawrence

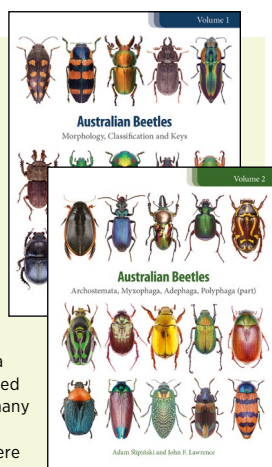
The Australian Beetles three-volume series represents a comprehensive treatment of the beetles of Australia, a relatively under-studied fauna that includes many unusual and unique lineages found nowhere else on Earth.

Volume 1: Morphology, Classification and Keys

520 pp, 8.25 in x 11 in, color illus, photos & line art
Cloth, 2013, 978 0 64309 728 5, \$ 193.95

Volume 2: Archostemata, Myxophaga, Adephaga, Polyphaga (part)

816 pp, 8 in x 10 in, 101 color plates, 95 illus & 66 photos
Cloth, 2019, 978 0 64309 730 8, \$ 139.95



Bees of Australia

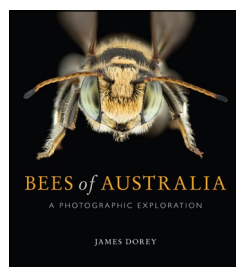
A Photographic Exploration

James Dorey

Bees of Australia introduces some of Australia's incredible native bees, many of which, when examined, can be found in your own garden. Open this book wherever you like or read it from cover to cover.

The combination of photography and contributions from some of Australia's leading bee researchers allows anyone to become enthralled by our native bees. Don't be surprised if you find yourself looking closer at every flower that you pass in search of our wonderful native bees.

232 pp, 10 in x 8.875 in, color photos & illus
Paper, 2019, 978 1 48630 849 1, \$ 39.95



Australian Longhorn Beetles

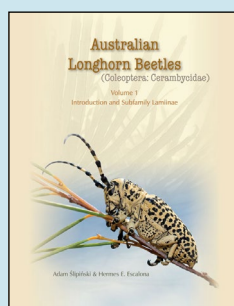
(Coleoptera: Cerambycidae)

Adam Slipinski and Hermes Escalona

Volume 1: Introduction and Subfamily Lamiinae

504 pp, 8.25 in x 11.75 in, 200 color plates
Cloth, 2013, 978 1 48630 003 7, \$ 148.95

Volume 2: Subfamily Cerambycinae
640 pp, 8.25 in x 11.75 in, four-color throughout
Cloth, 2016, 978 1 48630 458 5, \$ 120.00



Splendid Ghost Moths and Their Allies

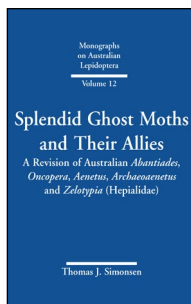
A Revision of Australian Abantiades, Oncopera, Aenetus, Archaeoanetus and Zelotypia (Hepialidae)

Thomas J. Simonsen

The Hepialidae (Ghost Moths) are a family of often spectacular micro-moths. The Australian region is one of the hot spots for hepialid diversity and the fauna is divided into three groups: primitive Hepialidae with small, often overlooked species; oxycanine Hepialidae, containing the large and poorly known genus *Oxycanus* and its allies; and finally the hepialine Hepialidae, which span from stunning, green Splendid Ghost Moths in the genus *Aenetus*, to the enormous moths in the genera *Zelotypia* and *Abantiades* (which include some of the most impressive insects in the world), to smaller, drab pest species in the genus *Oncopera*.

Splendid Ghost Moths and Their Allies is the first work to provide comprehensive information about the taxonomy, biology, diversity and morphology of all 70 Australian hepialine Hepialidae species, including the descriptions of 15 species and one genus new to science. Each species is illustrated with color photographs of males and females and drawings of the genitalia, and the book also contains identification keys to genera and species. Distribution maps and detailed information on where each species is found are included, as well as a species richness map for the group in Australia. This book is an invaluable reference for moth enthusiasts, professional entomologists and nature conservationists alike.

312 pp, 6.875 in x 9.5 in, illus, color plates, and maps
Cloth, 2018, 978 1 48630 747 0, \$ 146.95

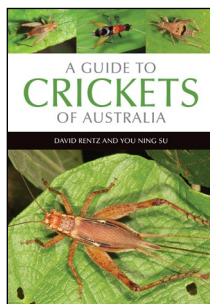


A Guide to Crickets of Australia

David Rentz and
You Ning Su

Featuring keys, distribution maps, illustrations and detailed color photographs from CSIRO's Australian National Insect Collection, *A Guide to Crickets of Australia* allows readers to reliably identify all 92 described genera and many species from the Grylloidea (true crickets) and Gryllotalpoidea (mole crickets and ant crickets) superfamilies. Not included are the Raspy Crickets (Gryllacrididae), King Crickets (Anostomatidae) or the so-called 'Pygmy Mole Crickets' (Caelifera), which despite their common names are not related to true crickets. Natural history enthusiasts and professionals will find this an essential guide.

416 pp, 5 in x 8 in, color photos, illus & maps
Paper, 2019, 978 1 48630 506 3, \$ 34.95



A Guide to Native Bees of Australia

Terry Houston

280 pp, 5.5 in x 8.25 in, 353 color photos
Paper, 2018, 978 1 48630 406 6, \$ 39.95

A Guide to Stag Beetles of Australia

George Hangay and Roger de Keyser

Photographs by Paul Zborowski

264 pp, 5.75 in x 8.5 in, color photos & illus
Paper, 2017, 978 1 48630 208 6, \$ 37.95

A Field Guide to Spiders of Australia

Robert Whyte and Greg Anderson

Foreword by Tim Low

464 pp, 5.75 in x 8.5 in, 1,300+ color photos
Paper, 2017, 978 0 64310 707 6, \$ 37.95

Winner of a 2016 Whitley Award Commendation for Natural History Guide

A Guide to Mosquitoes of Australia

Cameron Webb, Stephen Doggett and Richard C. Russell

200 pp, 5.75 in x 8.5 in, color photos & maps
Paper, 2016, 978 0 64310 030 5, \$ 38.95

The Complete Field Guide to the Butterflies of Australia

SECOND EDITION

Michael F. Braby

400 pp, 5.75 in x 8.5 in, color photos, maps & illus
Paper, 2016, 978 1 48630 100 3, \$ 38.95

A Guide to the Katydids of Australia

David Rentz

224 pp, 5.25 in x 8.75 in, 4 color throughout
Paper, 2010, 978 0 64309 554 0, \$ 49.95

Pest Management of Turfgrass for Sport and Recreation

Gary Beehag, Jyri Kaapro and Andrew Manners

312 pp, 6.625 in x 9.625 in, 97 color & 15 b/w illus
Paper, 2016, 978 0 64309 514 4, \$ 99.95

Introduced Dung Beetles in Australia

A Pocket Field Guide

Penny Edwards, Pam Wilson and Jane Wright

80 pp, 6.5 in x 4 in, 118 photos
Spiral bound, 2015, 978 1 48630 069 3, \$ 15.95

Winner of a 2016 Whitley Award Commendation for Illustrated Guide

Insects of South-Eastern Australia

An Ecological and Behavioural Guide

Roger Farrow

280 pp, 5.75 in x 8.5 in, 894 color photos
Paper, 2017, 978 1 48630 474 5, \$ 35.00

SKILLS AND REFERENCE

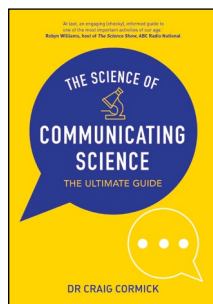
The Science of Communicating Science

The Ultimate Guide

Craig Cormick

This highly readable and entertaining book distills best practice research on science communication into accessible chapters, supported by case studies and examples. With practical advice on everything from messages and metaphors to metrics and ethics, you will learn what the public think about science and why, and how to shape scientific research into a story that will influence beliefs, behaviors and policies.

256 pp, 6 in x 9 in, 74 illus
Paper, 2019, 978 1 48630 981 8, \$ 39.95



NEW!

Scientific Writing = Thinking in Words

SECOND EDITION

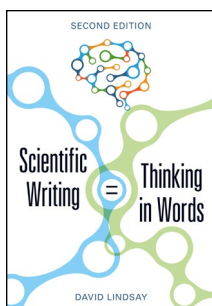
David Lindsay

This second edition of David Lindsay's popular book *Scientific Writing = Thinking in Words* presents a way of thinking about writing that builds on the way good scientists think about research. The simple principles in this book will help you to clarify the objectives of your work and present your results with impact. Fully updated throughout, with practical examples of good and bad writing, an expanded chapter on writing for non-scientists and a new chapter on writing grant applications, this book makes communicating research easier and encourages researchers to write confidently.

It is an ideal reference for researchers preparing journal articles, posters, conference presentations, reviews and popular articles; for students preparing theses; and for researchers whose first language is not English.

180 pp, 6 in x 9 in, Illus

Paper, Apr 2020, 978 1 48631 147 7, \$ 24.50

**Modelling Nature**

An Introduction to Mathematical Modelling of Natural Systems

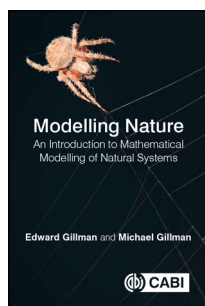
Edward Gillman and Michael Gillman

This short textbook introduces students to the concept of describing natural systems using mathematical models. The authors highlight the variety of ways in which natural systems lend themselves to mathematical description and the importance of models in revealing fundamental processes. The book covers a broad range from the molecular to ecosystems and whole-Earth phenomena. Themes running through the chapters include scale (temporal and spatial), change (linear and nonlinear), emergent phenomena and uncertainty. Mathematical descriptions are kept to a minimum and mechanisms and results are illustrated in graphical form wherever possible. Essential mathematical details are described fully, with the use of boxes.

262 pp, 6.25 in x 9.75 in

Cloth, 2019, 978 1 78639 310 4, \$ 160.00

Paper, 2019, 978 1 78639 313 5, \$ 75.00



FORTHCOMING

Practical R for Biologists*An Introduction*

Donald Quicke, Buntika A. Butcher and Rachel Kruff Welton

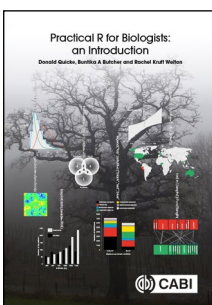
R is a freely available, open-source statistical programming environment which provides powerful statistical analysis tools and graphics outputs.

R is now used by a very wide range of people; biologists (the primary audience of this book), but also all other scientists and engineers, economists, market researchers and medical professionals. R users with expertise are constantly adding new associated packages, and the range already available is immense.

This text works through a set of studies that collectively represent almost all the R operations that biology students need in order to analyze their own data. The material is designed to serve students from first year undergraduates through to those beginning post graduate levels. Chapters are organized around topics such as graphing, classical statistical tests, statistical modelling, mapping, and text parsing. Examples are based on real scientific studies, and each one covers the use of more R functions than those simply necessary to get a p-value or plot. The book walks the reader through the data analysis process, starting with very simple plots, and continuing through more complex analyses and programming. It shows how to deal with issues such as error messages that can be confronting for beginners, in order to set students up for a successful scientific career using R.

400 pp, 6 in x 9 in

Paper, Feb 2021, 978 1 78924 534 9, \$ 56.00

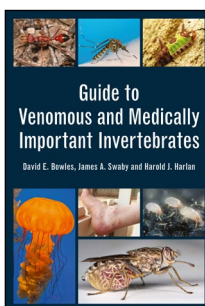
**Guide to Venomous and Medically Important Invertebrates**

David Bowles, James Swaby and Harold Harlan

Guide to Venomous and Medically Important Invertebrates describes the health threats posed by invertebrate groups worldwide, from physical pain and annoyance to disease transmission risk. Featuring clear photographs, distribution maps and descriptions of biological, physical and behavioral characteristics of key groups, this book aids identification of potentially harmful invertebrates. It also summarizes personal protection measures to reduce the risk of attack and disease, and provides guidance on treatment.

240 pp, 5.5 in x 8.25 in, color photos, illus, and maps

Paper, 2018, 978 1 48630 884 2, \$ 47.95

**Data Analysis in Vegetation Ecology**

THIRD EDITION

Otto Wildi

352 pp, 6.125 in x 9.5 in

Paper, 2017, 978 1 78639 422 4, \$ 65.00

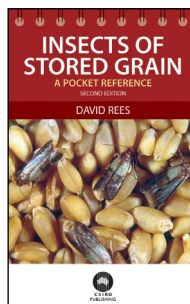
**Insects of Stored Grain***A Pocket Reference*

SECOND EDITION

David Rees

80 pp, 8.25 in x 5.25 in, 147 color illus

Paper, 2007, 978 0 64309 385 0, \$ 24.95

**The Pesticide Encyclopedia**

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

726 pp, 8.625 in x 10.5 in, figures, tables & photos

Cloth, 2015, 978 1 78064 014 3, \$ 164.80



Experimental Statistics for Agriculture and Horticulture

Clive Ireland

380 pp, 7.5 in x 10 in, figures & tables
Paper, 2010, 978 1 84593 537 5, \$ 75.00



The Encyclopedia of Medical and Veterinary Entomology

Richard C. Russell, Domenico P. Otranto and Richard L. Wall

440 pp, 6.875 in x 9.75 in, 114 line drawings & color photos
Cloth, 2013, 978 1 78064 037 2, \$ 276.00



A Dictionary of Entomology

SECOND EDITION

Gordon Gordh and David H. Headrick

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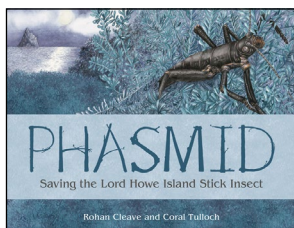
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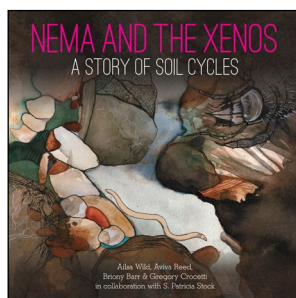
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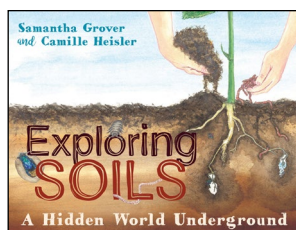
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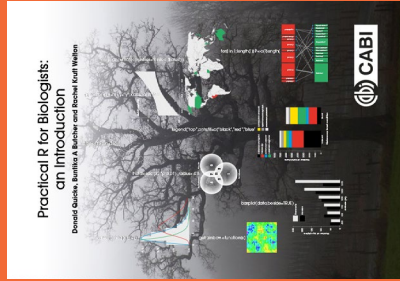
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