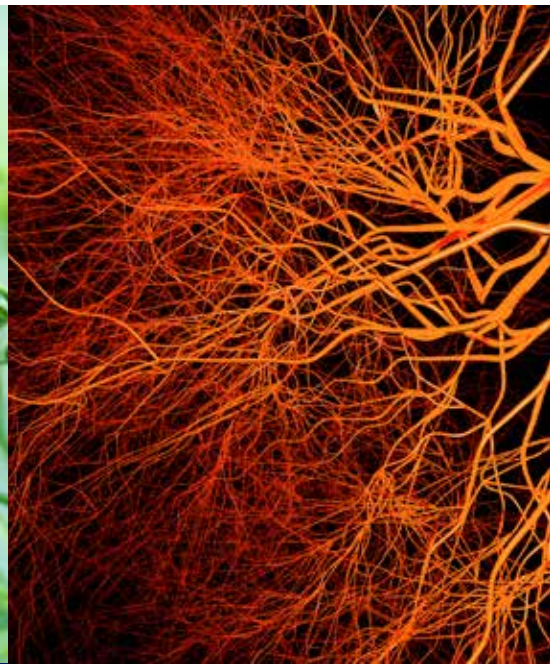


CABI Books 2014





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CABI has scientific research, publishing and international development at its core. We improve people's lives by solving problems in agriculture and the environment. Together with our members we address issues of global concern, such as food security and climate change. By generating and increasing access to scientific knowledge, and delivering change through development projects we work to improve crop yields, combat agricultural pests and diseases, protect biodiversity and safeguard the environment, which enables the world's poorest communities to feed themselves.

CABI is a not-for-profit organization. Our profits support rural development projects that go some way to helping the world's poorest people to grow more, lose less and improve their livelihoods.

To find out more about the development work we do visit www.cabi.org/projects

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US publication is **2 months after** UK publication.

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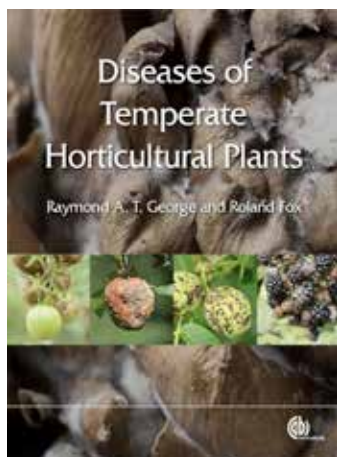
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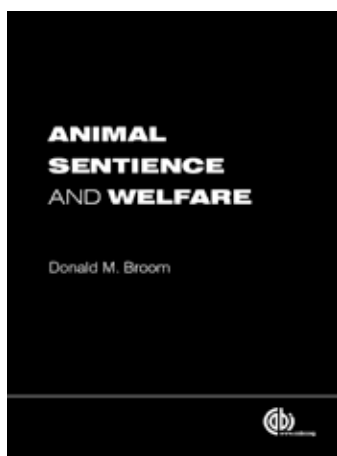
Key new titles for 2014



Diseases of Temperate Horticultural Plants

Containing approximately 180 photographs from DEFRA's disease slide collection in colour and black and white and authored by leading horticultural experts, *Diseases of Temperate Horticultural Plants* is an indispensable reference work for horticultural professionals, academics, students and crop producers. User-friendly with practical and accessible entries the book covers the major temperate horticultural crops organised into easy to navigate sections divided into fruits, vegetables and ornamentals. The diseases of major crops are presented according to their classification, and the symptoms of each disease, causal pathogen and control measures for each condition are described. This comprehensive resource will be an invaluable addition to any horticulturist's library.

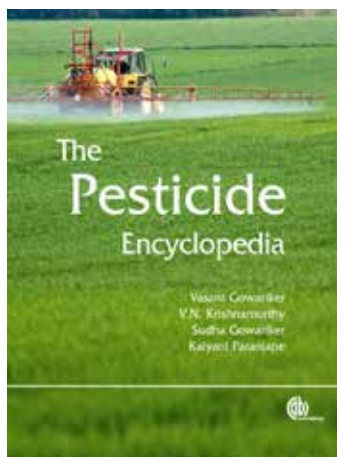
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Animal Sentience and Welfare

Sentience – the ability to feel, perceive and experience – is central to the animal welfare debate as it raises the question of whether animals experience suffering in life and death. This book explores and answers these questions in an objective way, based on the latest research and empirical evidence. Beginning with an introduction to sentience, the book investigates why we are so interested in sentience, when, as a species, humans became sentient and how it has changed over time. With a full chapter covering ethical decisions such as animal protection and experimentation, this book is not only an invaluable resource for researchers and students of animal welfare and biology, but also an engaging and informative read for veterinarians and the general public.

page 31



The Pesticide Encyclopedia

A complete one-stop overview of major aspects of pesticides and crop protection. Covering chemical pesticides, biocontrol agents and biopesticides, it also covers interrelated topics such as pesticide toxicity, legislation and regulation, handling, storage and safety aspects, IPM techniques, resistance management, interaction of pesticides with soil and the environment. This is a vital reference source for policy makers, advisers, students and researchers of crop science.

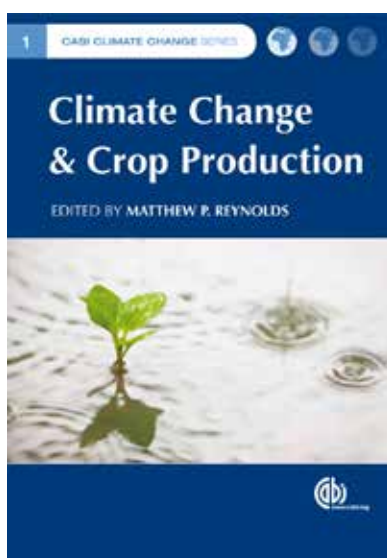
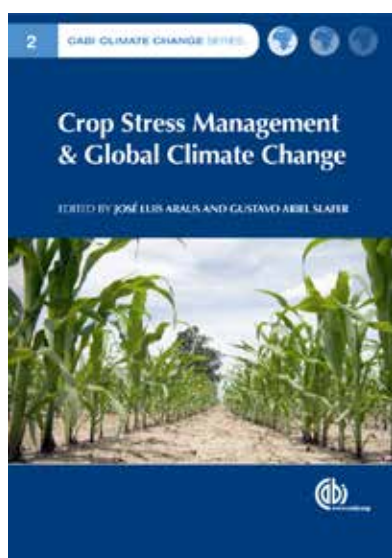
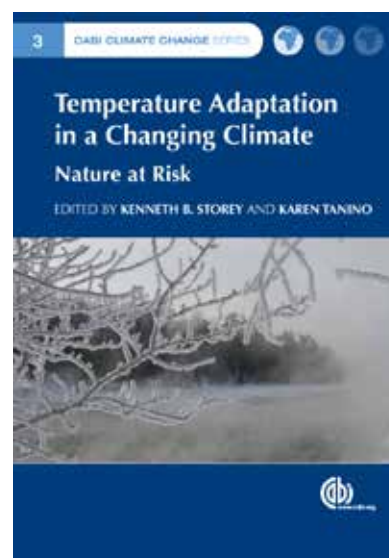
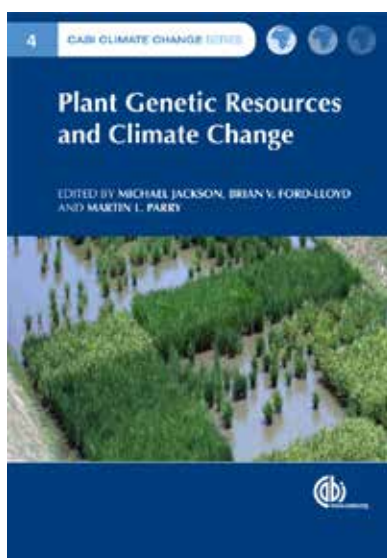
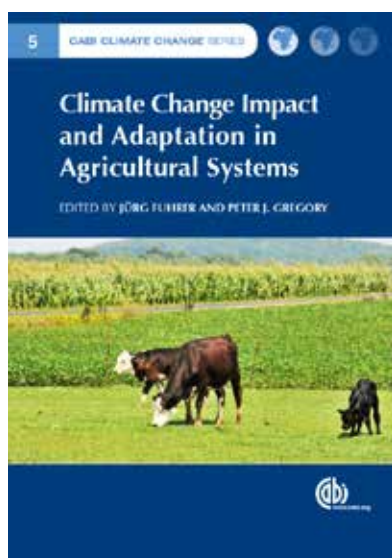
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Series focus ... CABI Climate Change Series

Climate change is a major environmental challenge to the world today, with significant threats to ecosystems, food security, water resources and economic stability overall. In order to understand and research ways to alleviate the effects of climate change, scientists need access to information that not only provides an overview of and background to the field, but also keeps them up to date with the latest research findings.

This series addresses many topics relating to climate change, including strategies to develop sustainable systems that minimize impact on climate and/or mitigate the effects of human activity on climate change. Coverage will encompass all areas of environmental and agricultural sciences.

Aimed at researchers, upper level students and policy makers, titles in the series provide international coverage of topics related to climate change, including both a synthesis of facts and discussions of future research perspectives and possible solutions.



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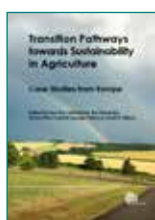


Climate Change Impact and Adaptation in Agricultural Systems CABI Climate Change Series

Edited by **Jürg Fuhrer**, Oeschger Center for Climate Change Research, University of Bern, Switzerland and **Peter Gregory**, University of Reading, UK

The focus of this book is future global climate change and its implications for agricultural systems which are the main sources of agricultural goods and services provided to society. These systems are either based on crop or livestock production, or on combinations of the two, with characteristics that differ between regions and between levels of management intensity. In turn, they also differ in their sensitivity to projected future changes in climate, and improvements to increase climate-resilience need to be tailored to the specific needs of each system.

June 2014 / c.256 pages / HB / 9781780642895
£85 / €110 / US\$160



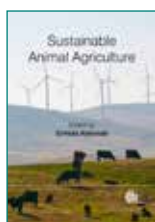
Transition Pathways towards Sustainability in Agriculture Case Studies from Europe

Edited by **Lee Ann Sutherland**, The James Sutherland Institute, UK, **Ika Darnhofer**, University of Natural Resources and Life Sciences, Austria, **Teresa Pinto-Correia**, University of Evora, Portugal, **George Vlahos**,

University of Athens, Greece and **Geoff A. Wilson**, University of Plymouth, UK

This book focuses on understanding farm-level transitions in Europe. Using case studies from various countries in the EU (United Kingdom, Greece, Germany, Czech Republic, Bulgaria, Portugal and France) it adopts a novel analytical approach based on transition management theory and discusses the importance of understanding transition pathways towards sustainability in European agriculture at a time of economic recession, outmigration of young people from rural areas, and increasing global competition in agro-commodity chains.

August 2014 / c.176 pages / HB / 9781780642192
£75 / €100 / US\$145



Sustainable Animal Agriculture

Edited by **Ermias Kebreab**, University of California Davis, USA

Increasing global demand for meat and animal by-products is necessitating increasingly intensive animal production. Creating a sustainable system of animal agriculture that works in different production environments

is a major challenge for animal scientists. This book draws together themes on sustainability that have emerged as the most pressing in recent years. It addresses practical topics such as air quality, manure management, animal feeds, production efficiency, environmental sustainability, biotechnology issues, animal welfare concerns, societal impacts and an analysis of the data used to assess the economic sustainability of farms.

December 2013 / 336 pages / 9781780640426
£95 / €125 / US\$180



Land-Use Change Impacts on Soil Processes Tropical and Savannah Ecosystems

Edited by **Francis Q Brearley** and **Andrew D Thomas**, both Manchester Metropolitan University, UK

This book examines the effects that land-use changes (notably agricultural intensification, logging, soil erosion, urbanisation and mining) will have on soil characteristics and processes in tropical and savannah environments. It covers a range of geographical regions and environments as impacts of land use change are often site specific. It also examines the effects of land use change on various aspects of the soil ecosystem from both a chemical and biological perspective.

May 2014 / c.224 pages / HB / 9781780642109
£75 / €100 / US\$145



Conservation Agriculture Global Prospects and Challenges

Edited by **Ram A Jat**, Directorate of Groundnut Research, India, **Kanwar L Sahrawat**, ICRIAT, India and **Amir H Kassam**, University of Reading, UK and FAO, Rome, Italy

The book covers the spread of conservation agriculture (CA) to regions including Brazil, Argentina, Canada, Australia, Europe and emerging CA destinations in Asia and Africa. Topics covered include the various components of CA, and how their individual and combined implementation influence productivity, soil health and environmental quality under diverse edaphic and climatic conditions. The book will be useful to teachers, researchers, extensionists, farmers, and students interested in environmental quality.

January 2014 / 384 pages / HB / 9781780642598
£115 / €150 / US\$220



Promoting Investment in Agriculture for Increased Production and Productivity

Co-published with The Food and Agriculture Organization of the United Nations

Saifullah Syed and **Masahiro Miyazako**, both Investment Centre Division, FAO, Italy

Covering the development of sustainable agriculture, food production and food security, this book explains the relationship between all levels of investment and their interdependence to be successful. It also describes how to drive increased investment, at what stage and where, providing a useful overview of investment in agriculture.

November 2013 / 112 pages / 9781780643885
£65 / €85 / US\$125



Rural Women in Leadership
Positive Factors in Leadership Development

Lori Ann McVay, Spring Arbor University, USA

Rural women and leadership have, in recent years, come to be the focus of development initiatives in many countries. To date, however, much of the writing on this topic has leaned

more heavily on structure than agency as influencing attainment of leadership. Citing examples from a case study in Northern Ireland, this book gives agency an equal voice to structure, and pursues both as vital, positive elements in leadership development.

September 2013 / 160 pages / HB / 9781780641607
 £75 / €100 / US\$145



Agricultural Markets in a Transitioning Economy
An Albanian Case Study

Edited by Catherine Chan-Halbrecht and Jean Fantle-Lepczyk, both University of Hawaii, USA

This book presents major challenges and opportunities facing agriculture sectors following transition from a planned to market economy. Using Albania as a case study, the transition and lasting effects of such change on agricultural production and education are examined. The book reviews primary research sources to give readers an accurate portrayal of the path that lies ahead for many developing countries, and the future of agriculture in transitioning economies.

April 2013 / 280 pages / HB / 9781780641003
 £85 / €110 / US\$160



Banana Systems in the Humid Highlands of Sub-Saharan Africa
Enhancing Resilience and Productivity

Edited by Guy Blomme, Bioversity, Uganda, Bernard Vanlauwe, Tropical Soil Biology and Fertility Programme, Nairobi, Kenya and Piet van Asten, IITA, Uganda

Banana Systems in the Humid Highlands of Sub-Saharan Africa: Enhancing Resilience and Productivity addresses issues related to agricultural intensification in the (sub)humid highland areas of Africa, based on research carried out in the Great Lakes Region by the Consortium for Improving Agriculture-based Livelihoods in Central Africa.

October 2013 / 264 pages / HB / 9781780642314
 £85 / €110 / US\$160



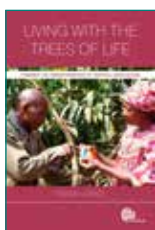
Realizing Africa's Rice Promise

Edited by Marco C S Wopereis, Africa Rice Center (AfricaRice) Benin, David E Johnson, International Rice Research Institute (IRRI), Philippines, Nourollah Ahmadi, Centre de Cooperation International en Recherche Agronomique pour le Development (CIRAD) France, Eric Tollens, Catholic University of Leuven, Belgium and Abdulai Jalloh, West

and Central African Council for Agricultural Research and Development (CORAF/WECARD), Senegal

At a time when Africa's food security stands threatened, *Realizing Africa's Rice Promise* provides a comprehensive overview of state-of-the-art research and recommendations for dealing with future challenges. With contributions from the key scientists working on rice in Africa, this volume addresses policy, genetic diversity and improvement, sustainable productivity enhancement, innovations and value chains. The book is useful for researchers, policy makers, agricultural ministries, donors, regional and sub-regional organizations, non-governmental development organizations and universities.

October 2013 / 480 pages / HB / 9781845938123
 £115 / €150 / US\$220



Living with the Trees of Life
Towards the Transformation of Tropical Agriculture

Roger R B Leakey, James Cook University, Australia

Based on the career of Roger Leakey, former Director of Research at the International Centre for Research in Agroforestry, this accessible and engaging book presents real life situations in rural villages that demonstrate how agroforestry can offer hope from the doom and gloom often emanating from the tropics.

July 2012 / 224 pages / PB / 9781780640983
 £27.50 / €35 / US\$52.50

July 2012 / 224 pages / HB / 9781780640990
 £59.95 / €80 / US\$115



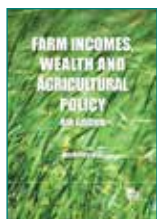
The Economics of Regulation in Agriculture

Compliance with Public and Private Standards

Edited by Floor Brouwer, Glenn Fox and Roel Jongeneel, all at LEI – Wageningen UR, The Netherlands

This work debates and investigates the cross-compliance system, whereby farmers comply with standards relating to the environment, food safety and animal and plant health. It discusses cross-compliance in the context of existing standards, on-farm costs and the competitiveness of farm businesses.

October 2012 / 296 pages / HB / 9781845935573
 £85 / €110 / US\$160

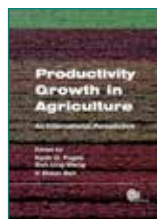


Farm Incomes, Wealth and Agricultural Policy, 4th Edition
Filling the CAP's Core Information Gap

Berkeley Hill, formerly University of London, Imperial College, UK

This book examines the evidence on the overall wealth of farming households, and concludes that in nearly all member states, they are not generally a poor sector of society. In this new edition, the author discusses the latest evidence, makes recommendations for gathering better information, and considers the implications for the CAP as we enter the second decade of the 21st century.

July 2012 / 336 pages / HB / 9781845938475
£95 / €125 / US\$180



Productivity Growth in Agriculture
An International Perspective

Edited by **Keith O Fuglie**, **Sun Ling Wang** and **Eldon Ball**, all USDA

Increasing food prices have renewed concerns about long-run agricultural demand and supply in the global economy. This book looks at results, methods, and data on international agricultural productivity for a better understanding of long-run trends and the policies that determine them

September 2012 / 392 pages / HB / 9781845939212
£95 / €125 / US\$180



Innovation in Agri-food Clusters
Theory and Case Studies

Peter W B Phillips, University of Saskatchewan, Canada, **Jeremy Karwandy**, Enterprise Saskatchewan, Saskatoon, Canada, **Graeme Webb**, Simon Fraser University, Canada and **Camille D Ryan**, University of Saskatchewan, Canada

Innovation has moved through a range of revolutionary epochs, but there is no clear picture of how, or even if, innovation can be managed. This is a single, coherent volume that outlines the theory and practices related to innovation, offering a critical assessment of the strengths and weaknesses of the different approaches, backed up with empirical evidence.

December 2012 / 240 pages / HB / 9781780640419
£65 / €85 / US\$125



Developing Successful Agriculture
An Australian Case Study

Zhang-Yue Zhou, James Cook University, Australia

Australia's agricultural system has developed from almost non-existence 220 years ago to one of the most advanced and efficient in today's world. This book provides a comprehensive account of this agricultural success story, which can stimulate policy makers, researchers, agribusiness consultants and students to relate the Australian experience to their own agricultural development.

December 2012 / 240 pages / HB / 9781845939458
£75 / €100 / US\$145



Shifting Cultivation and Secondary Succession in the Tropics

Albert O Aweto, University of Ibadan, Nigeria

This book documents and systematizes findings in shifting cultivation over the last six decades and also characterizes secondary succession and related changes that fallow vegetation undergoes to the process of soil fertility restoration under bush fallow.

November 2012 / 208 pages / HB / 9781780640433
£75 / €100 / US\$145



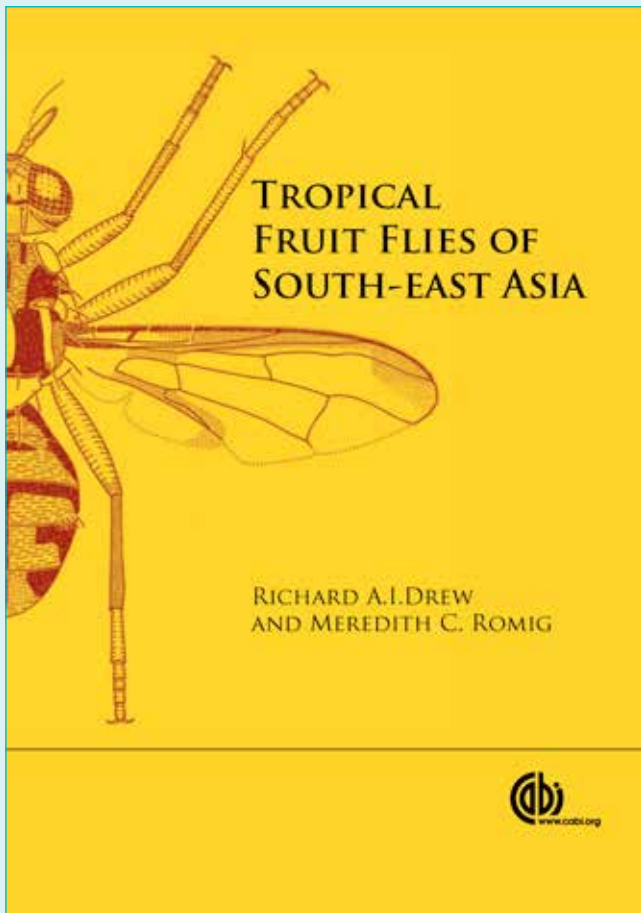
Agricultural Policies for Poverty Reduction

Jonathan Brooks, OECD

With more than two-thirds of the world's poor living in rural areas, higher rural incomes are needed to sustain poverty reduction and reduce hunger. This volume sets out a strategy for raising rural incomes that emphasises the need to create diversified rural economies with opportunities within and outside agriculture.

March 2012 / 192 pages / HB / 9781780641058
£75 / €100 / US\$145

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Key features:

- 120 recently discovered species
- 500 detailed drawings
- Revision of all known species
- Updated geographical distributions and host records
- Accurate list and detailed information of all known pest species

October 2013 / c.680 pages / HB / 9781780640358

£135 / €175 / US\$260

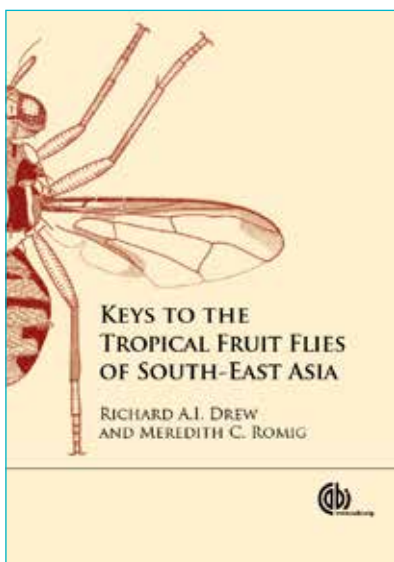
Tropical Fruit Flies of South-East Asia (Tephritidae: Dacinae)

Richard A I Drew and **Meredith C Romig**, Griffith University, Australia

As global warming and species migration become more prevalent issues, there is an urgent need for a text that provides comprehensive taxonomic details and geographic distributions of Dacinae fruit flies within south-east Asia. In particular, some of the major pest species of this region are being introduced on a regular basis to new geographical areas, causing widespread food security issues and economic hardship. Quarantine and horticultural organisations require detailed information on these fruit fly species in order to detect and eradicate any new incursions. This major new reference work details the taxonomic research into the subfamily Dacinae, which contains the tropical fruit flies of south-east Asia, as well as many other regions of the world.

While focusing on south-east Asian fauna, all known species are included, through a study of the type material available in museums around the world. Specimens collected in major surveys conducted across Asia from 1983 to present have also been used to ensure a complete, in-depth review of this subfamily.

Providing complete descriptions and artwork of all species of Dacinae recorded from the south-east Asian region for the first time, this book is written and illustrated by experts with over 80 years' combined research experience. Areas covered include: India, Bhutan, Nepal, Sri Lanka, Myanmar, China, Taiwan, Japan, the Philippines, Palau, Vietnam, Thailand, Singapore, Malaysia and Indonesia. It is an essential reference for departments of agriculture, researchers and students of entomology and quarantine, horticultural and chemical industry personnel worldwide.



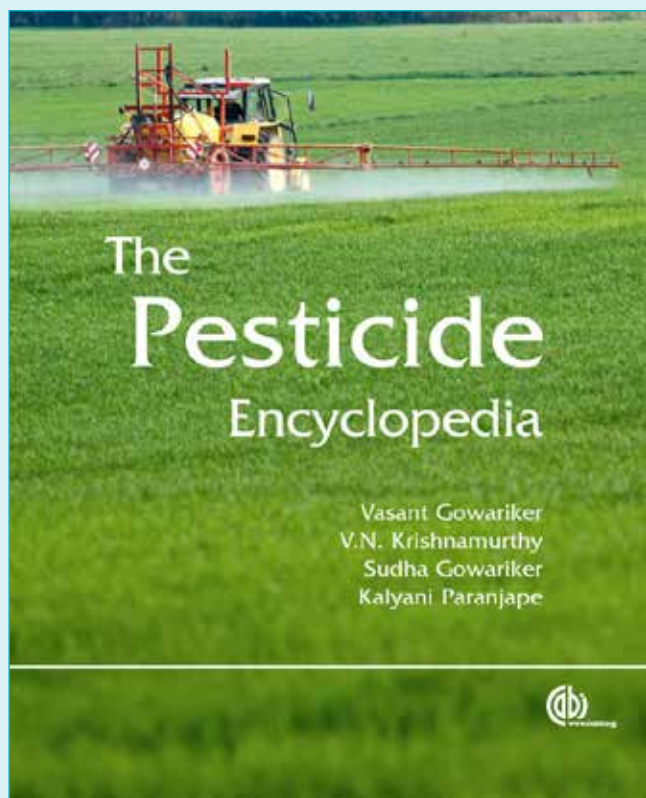
Keys to the Tropical Fruit Flies of South-East Asia (Tephritidae: Dacinae)

Richard A I Drew and **Meredith C Romig**, Griffith University, Australia

A companion volume to *Tropical Fruit Flies of South-East Asia (Tephritidae: Dacinae)*, this book provides fully-illustrated keys for the identification of all currently-known Dacinae fruit flies. Focusing on south-east Asian fauna, it covers areas including India, Bhutan, Nepal, Sri Lanka, Myanmar, China, Taiwan, Japan, the Philippines, Palau, Vietnam, Thailand, Singapore, Malaysia and Indonesia. This major new reference work is produced by experts with over 80 years' combined research experience, and through simple identification information can help prevent these major pest species being introduced to new geographical areas. Of particular value to agriculture and quarantine officers responsible for the detection of new incursions, where early detection is both economical and essential to guarantee eradication, this book is also a valuable resource for researchers and students of agriculture and entomology.

September 2014 / c.250 pages / HB / 9781780644196

£85 / €110 / US\$160



The Pesticide Encyclopedia

Vasant Gowariker, TIFAC, DST, Government of India, India, **V N Krishnamurthy**, **Sudha Gowariker** and **Kalyani Paranjape**, all independent consultants, India

In today's world, food security is an important issue. Food shortages push prices up, impacting upon the health and well-being of hundreds of millions of rural poor across the globe. One way to increase food security is to decrease the amount of yield lost to pests. *The Pesticide Encyclopedia* provides a comprehensive overview of the fight against pests, covering chemical pesticides, biocontrol agents and biopesticides. It also covers interrelated topics such as pesticide toxicity, legislation and regulation, handling, storage and safety aspects, IPM techniques, resistance management, interaction of pesticides with soil and the environment.

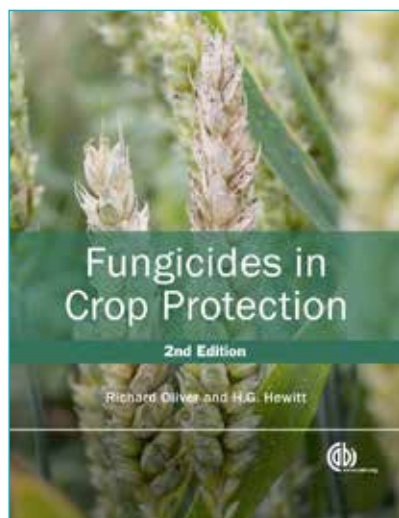
An important reference for policy makers, advisers and students and researchers of crop science, this book also includes useful notes on commonly known plant diseases and pests.

The encyclopedia includes information about:

Chemical Pesticides, Biopesticides, Biocontrol Agents, Repellents, Toxicity Related Concepts, Growth Regulators, Classification of Pesticides (Insecticides, Herbicides, Fungicides, Molluscicides, Nematicides, Termicides, Slimicides and Rodenticides), Modes of Action in Insecticides, Fungicides, Herbicides and Rodenticides, International Legislative Provisions, Regulatory Agencies, Pesticide Storage Management, Safety Measures during Pesticide Handling, Common Crop Pests, Common Crop Diseases, Common Crops, Environmental Exposure and Contamination Issues, Terms and Concepts Related to Pests and Pest Control Agents (Insects, Nematodes, Rodents, Enzymes, Residue Management), Pesticide Formulations.

June 2014 / c.640 pages / HB / 9781780640143

£195 / €255 / US\$370



Fungicides in Crop Protection, 2nd Edition



Richard Oliver, Curtin University, Australia and **H G Hewitt**, University of Reading, UK

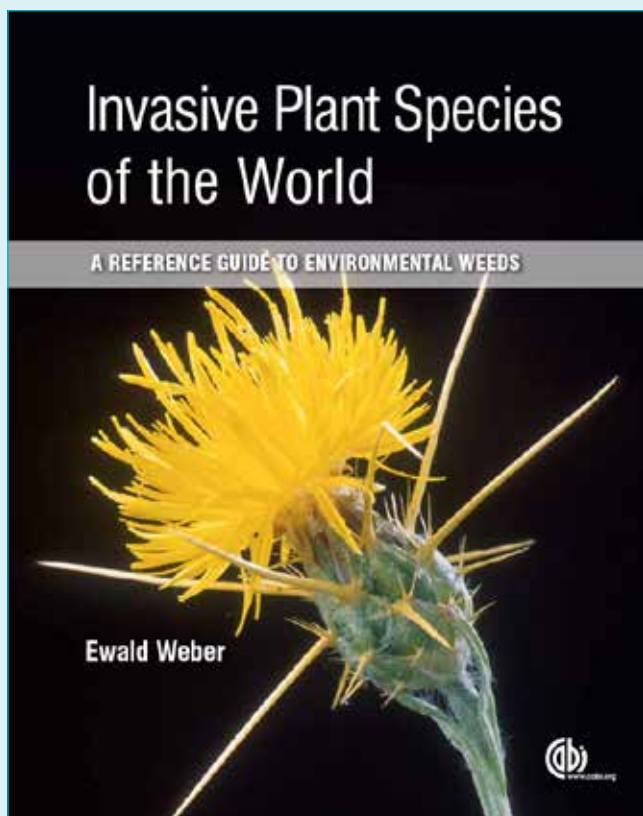
Plant-pathogenic fungi cause devastating damage to crop production worldwide. The growing global population necessitates reduced crop losses to improve food security, and the control of fungal plant pathogens is vital to help maintain food production. Providing a concise and balanced review of fungicides used in crop protection, this book describes the science of fungicide use, selection and resistance within the context of farming situations. Major updates and additions reflecting the emergence of two new classes of fungicides (strobilurins and SDHI) and the increased incidence of fungicide resistance are included in this new edition, which also discusses legislative requirements to reduce fungicide applications, and current trends in fungicide use.

March 2014 / c.256 pages / PB / 9781780641676

£39.95 / €55 / US\$75

March 2014 / c.256 pages / HB / 9781780641669

£75 / €100 / \$145



Invasive Plant Species of the World

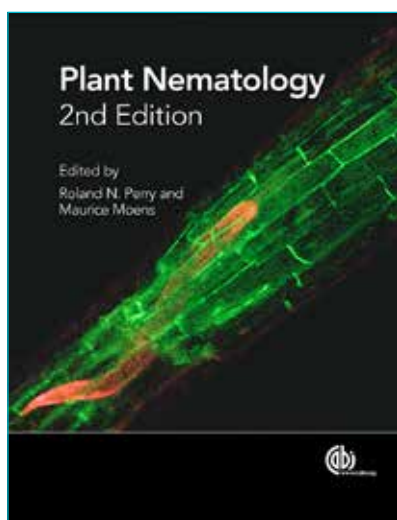
A Reference Guide to Environmental Weeds

2nd Edition

Ewald Weber, University of Potsdam, Germany

Invasive plant species cause severe disruption to both natural and managed ecosystems, and with range expansions and increasing international trade these problems are only becoming more serious. Globally relevant, this book is a full-colour reference guide to the major invasive plants. It includes fifty extra species since the first edition, covering a total of over 500 economically and environmentally important species. This book provides a complete resource to the subject, supplying illustrations, synonyms, geographical distribution, habitats invaded, morphology, ecology and references for each species. With revised and updated species ranges presented as full colour maps, this new edition includes newly established or improved control methods for each species. It also contains increased ecology and impact information, making this book an invaluable source of information for researchers in plant ecology, nature conservation, biological control, weed science and environmental management.

December 2014 / c.608 pages / HB / 9781780643861
£195 / €255 / US\$370



Plant Nematology

2nd Edition



Edited by **Roland N Perry**, Rothamsted Research, Harpenden, UK and **Maurice Moens**, Institute for Agricultural and Fisheries Research, Belgium

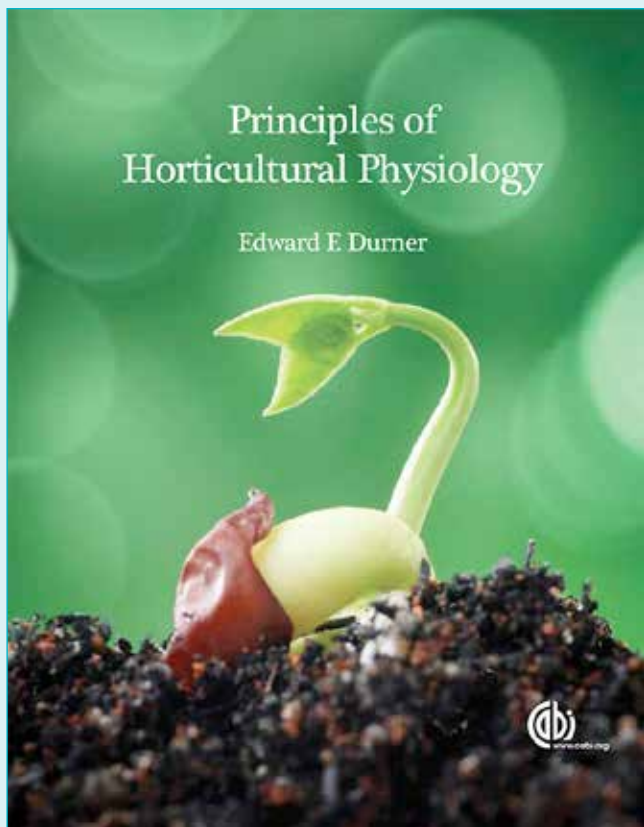
Plant-parasitic nematodes devastate crops worldwide, in turn impacting international trade, social and economic development. Effective control of nematodes is essential for crop protection, and requires an understanding of nematode biology, taxonomy, population dynamics and sampling methods. Providing a broad introduction to nematodes as plant parasites, this book begins by describing nematodes by genera, and builds on this foundation to detail nematode biology and pest management, including biological and chemical control. Chapters are authored by international experts and enhanced by extensive illustrations and focus boxes. Fully updated throughout, this new edition is an essential resource for postgraduate students, extension officers, researchers and crop protection scientists.

October 2013 / 512 pages / PB / 9781780641539

£59.95 / €80 / US\$115

October 2013 / 512 pages / HB / 9781780641515

£115 / €150 / \$220



Principles of Horticultural Physiology



Edward F Durner, Rutgers, The State University of New Jersey, USA

Understanding the physiology of plants is fundamental to horticultural studies and practice. Aimed at undergraduates, this major textbook covers applied aspects of physiology related to horticultural crops. The author discusses specific physiological processes in relation to horticultural management, maintaining a focus throughout on how horticultural practices influence plant productivity and quality.

Principles of Horticultural Physiology begins by guiding students through the basics of plant physiology; plant anatomy and plant classification, before covering plant hormones, growth and development, and factors related to the external environment including water, light, temperature and soil. Greenhouse culture is also discussed, as well as practical management techniques including seeding, pruning and grafting.

The book concludes with real-world horticultural considerations of harvesting crops, packaging and transportation, postharvest physiology and marketing plant products, as well as a fascinating chapter on plants and human nutrition.

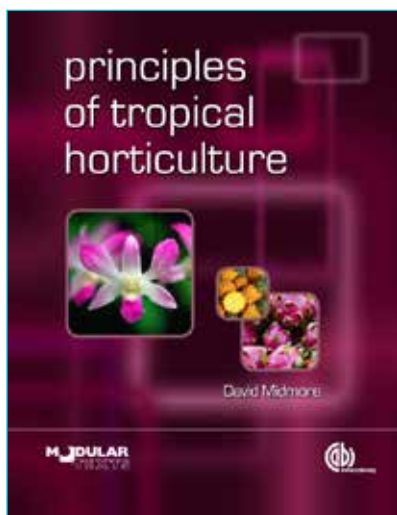
One of the text's chief virtues is the accessible way the author conveys sometimes complex information in an easy to follow style. An ideal resource for undergraduate students of horticulture, this book will act as a guide throughout the entire course.

June 2013 / 416 pages / PB / 9781780640259

£45 / €60 / US\$85

June 2013 / 416 pages / HB / 9781780643069

£95 / €125 / US\$180



Principles of Tropical Horticulture

Modular Texts Series

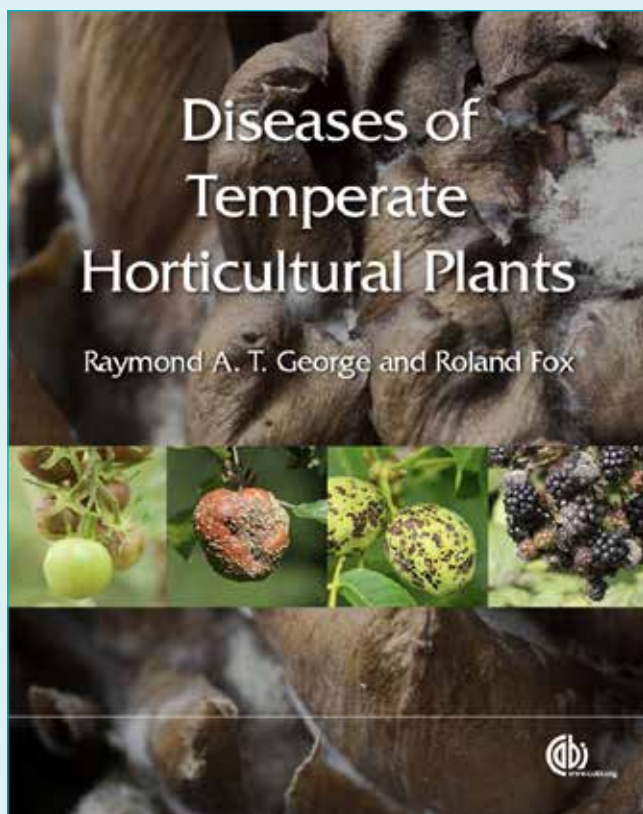


David J Midmore, University of Reading, UK

Principles of Tropical Horticulture leads the reader through a background of environmental influences and plant physiology to an understanding of production and post-harvest systems, environmental adaptation techniques and marketing strategies. Focusing on the principles behind production practices and their scientific basis, rather than detailed biological traits of each crop, this text outlines successes and failures in practices to date and sets out how the quantity and quality of horticultural produce can improve in the future. Case studies are frequently used and chapters cover the production of vegetables, fruit and ornamental crops, including temperate zone crops adapted to grow in the tropics.

September 2014 / c.304 pages / PB / 9781845935153

£39.95/ €55 / US\$75



Diseases of Temperate Horticultural Plants

Edited by **Raymond A T George**, formerly FAO, Rome, Italy and **Roland T V Fox**, formerly University of Reading, UK

Containing an extensive range of photographs and authored by leading horticultural experts, *Diseases of Temperate Horticultural Plants* is an indispensable reference work for horticultural professionals, academics, students, crop producers as well as amateur horticulturists. The diseases of major crops are presented according to their classification, and the symptoms of each disease, causal pathogen and control measures for each condition are described.

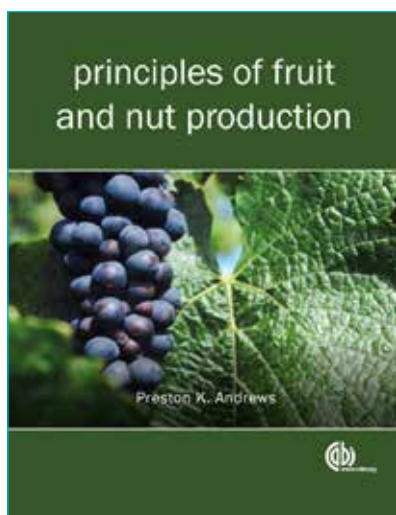
The crops covered include the major temperate horticultural crops, organised into easy to navigate sections divided into fruits, vegetables and ornamentals. Within fruits, apples and pears are discussed, as well as currants and berries, cherries, peaches and plums, nut crops and rhubarb. The vegetable section covers salad crops, brassicas and crucifers, cucurbits, root vegetables, bulb crops, solanaceous vegetables and some herbs.

The section on ornamental plants includes a wide range of ornamental garden plants, while a further section discusses diseases of turf grass and ornamental lawns. The book is user-friendly with practical, accessibly written entries organised into discrete sections.

The comprehensive nature of this work makes it an invaluable addition to any horticulturist's library with content that will remain current for years to come.

July 2014 / c.400 pages / HB / 9781845937737

£95 / €125 / US\$180



Principles of Fruit and Nut Production



Preston K Andrews, Washington State University, USA

Fruit and nuts are an important group of horticultural crops, which have attracted recent attention for the health benefits they afford consumers. *Principles of Fruit and Nut Production* covers the fruit and nut crops of temperate and sub-tropical regions; important regions of world production where both types of crop overlap, including California, southern Europe and Australia. The book integrates knowledge of the general requirements of these types of crops, their botanical characteristics and unique requirements. Important attention is given to genetic improvement, production systems, soil and water management, plant and fruit biology, crop protection and post-harvest issues. Discussion of sustainable production and utilization of these crops gives an important insight into challenges that will face future researchers and producers.

September 2014 / c.352 pages / PB / 9781845937881

£39.95 / €55 / US\$75



Tomatoes

2nd Edition

Crop Production Science in Horticulture Series

Edited by **Ep Heuvelink**, Wageningen University, The Netherlands

Tomatoes are one of the most important horticultural crops in both temperate and tropical regions of the world, grown in vast quantities for raw consumption, cooking and drinks. This new edition describes the scientific principles underlying the biology and production of tomatoes, covering genetics and breeding, crop growth and yield, irrigation and fertilization, fruit ripening and quality, and postharvest biology and handling. It provides a comprehensive and practical overview of tomato production. Authored by worldwide experts and updated throughout, this book also includes a new chapter on organic tomato production, discussing both greenhouse and open field techniques.

August 2014 / c.320 pages / PB / 9781780641935

£45 / €60 / US\$85



Naturally Occurring Insecticidal Toxins

Edited by **Opendar Koul**, Insect Biopesticide Research Centre, Jalandhar, India

This book on insecticidal toxins from natural sources is a complete review of the subject. Containing 500 chemical structures, it examines toxins from sources such as plants, microorganisms and marine flora and fauna and includes chapters on bioassays,

concepts of insecticidal activity, structure activity relationships and commercial aspects.

July 2014 / c.600 pages / HB / 9781780642703

£155 / €200 / US\$295



Tropical and Subtropical Fruits Postharvest

Physiology and Technology

Edited by **Sunil Pareek**, Maharana Pratap University of Agriculture & Technology, India, **A Keith Thompson**, Cranfield University, UK, **Dharini Sivakumar**, Tshwane University of Technology, South Africa, **Noureddine Benkeblia**, University of West Indies, Mona Campus, Jamaica and **Mohammed El-Otmani**, Agricultural and Veterinary Institute Hassan II, Morocco

Postharvest physiology and technology for tropical fruits is both highly important and crucially different from temperate fruits. Covering fifteen of the most important tropical and subtropical fruits, this book describes their importance, phytochemistry, bioactive compounds and nutritive value, uses and important cultivars. Also including postharvest diseases and physiological disorders for each fruit, postharvest physiology such as respiration, ethylene production, maturity and ripening are reviewed at length with best postharvest handling practices.

July 2014 / c.600 pages / HB / 9781780642925

£155 / €200 / US\$295



The Potato

Botany, Production and Uses

Edited by **Roy Navarre**, USDA-ARS and Washington State University, USA and **Mark J Pavsek**, Washington State University, USA

Potatoes are a staple crop around the world. Covering all aspects of botany, production and uses, this book presents a comprehensive discussion of the most

important topics for potato researchers and professionals. It assesses the latest research on plant growth such as tuber development, water use and seed production, covers all aspects of pest management and reviews postharvest issues such as storage, global markets, and of course, nutritional value and flavour.

August 2014 / c.450 pages / HB / 9781780642802

£95 / €125 / US\$180



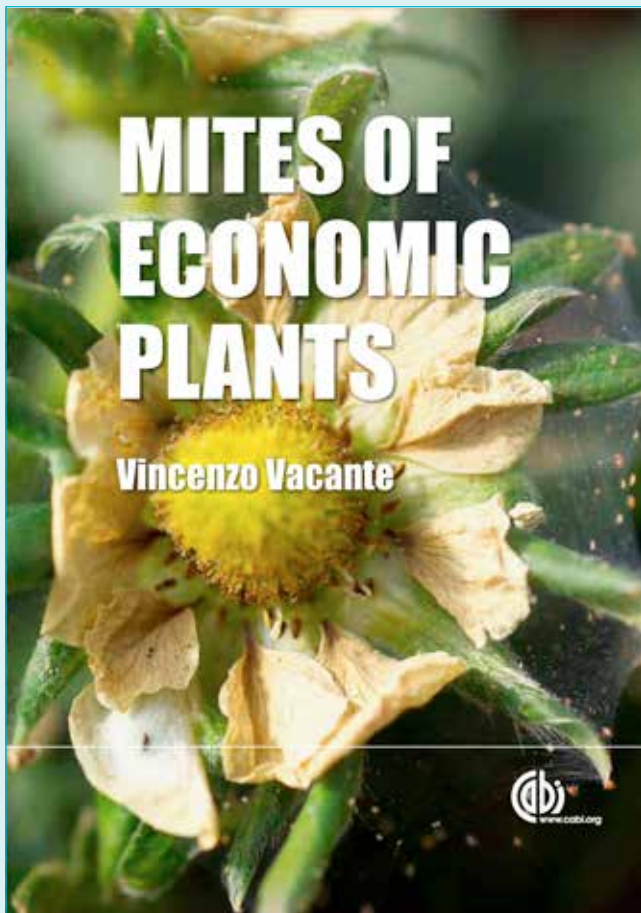
Biocontrol Agents of Phytoneematodes

Edited by **Tarique Hassan Askary**, Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir (SKUAST-K), India and **P R P Martinelli**, Universidade Estadual Paulista (FCAV -UNESP), Brazil

Highlighting the use of biocontrol agents as an alternative to chemical pesticides in the management of plant nematodes, this book reviews the current progress and developments in the field. Tactful and successful exploitation of each biocontrol agent, i.e. nematophagous fungi, parasitic bacteria, predaceous mites, rhizobacteria, mycorrhiza and predaceous nematodes, has been described separately. The contributors are 21 eminent nematologists from 10 countries and their information has been compiled into 20 chapters.

September 2014 / c.500 pages / HB / 9781780643755

£145 / €190 / US\$275



September 2014 / c.700 pages / HB / 9781845939946

£160 / €210 / US\$305

Mites of Economic Plants

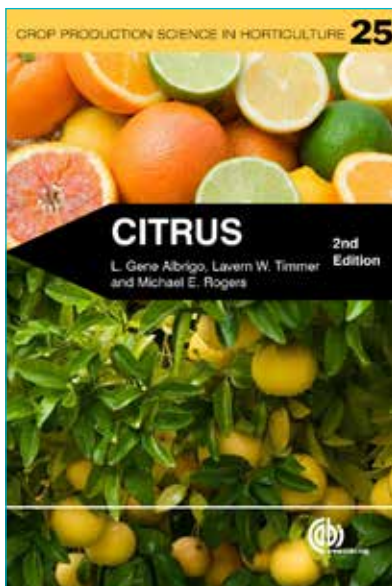
Identification, Bio-ecology and Control

Vincenzo Vacante, Mediterranean University, Italy

Mites are among the most diverse and successful of invertebrates, with over 45,000 described species, with many more thousands to be discovered. They are responsible for a significant portion of the losses of crops for food, fibre, industry and other purposes, and require expensive and often controversial pest control measures. Understanding these mites is vital for entomologists, pest researchers, agronomists and food producers.

This encyclopedia provides a thorough coverage of the mites and the problems they cause to crops, yet it is easily searchable, organised by mite species and subdivided into helpful headings. It takes a worldwide view of the issue of mites injurious to economic plants, describing mites prevalent in different regions and discussing control methods appropriate in different environments.

This book provides an encyclopaedic reference to the major mites, described by family in terms of their internal and external morphology, bio-ecology and family systematics. Methods of mite collection and laboratory study is described, as well as species diagnostic characteristics, worldwide distribution, host plants, identification by the type of damage they cause and control strategies, including chemical and biological intervention and integrated pest management measures. Mites of the following families are included: (Eriophyoidea, Tarsonemidae, Tuckerellidae, Tenuipalpidae, Tetranychidae, Acaridae, Penthaleidae).



Citrus

2nd Edition

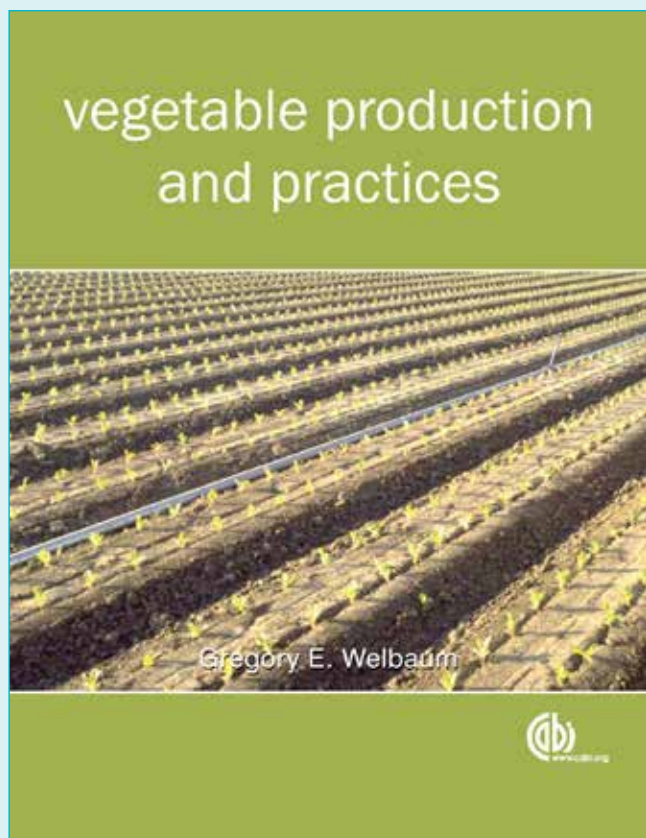
Crop Production Science in Horticulture Series

Leo G Albrigo, Lavern W Timmer and Michael Rogers, University of Florida, USA

Citrus, 2nd Edition covers the biology and cultivation of citrus and considers the citrus industry from an international perspective. Fruits including oranges, mandarins, lemons, limes, grapefruit and hybrids such as tangelos are covered and the fundamental topics of taxonomy, cultivars, breeding, husbandry, weeds, pests and diseases are also addressed in detail. This updated new edition includes coverage of new cultivars, advances in the molecular approaches to taxonomic studies, new findings in the physiological understanding of key citrus fruits, recent research into environmental factors affecting external and internal fruit quality and expanded coverage of pests and diseases. The fusion of scientific coverage and practical management make the text suitable for a range of horticulturalists including breeders, growers, researchers and academics.

August 2014 / c.400 pages / PB / 9781845938154

£39.95 / €55 / US\$75



Vegetable Production and Practices



Gregory E Welbaum, Virginia Tech University, USA

Successful vegetable production in a modern competitive market requires an understanding of many more factors than the biology of crops and the production techniques involved. This major new textbook brings the science and practice of vegetable production right up to date by addressing modern culture techniques and the recent challenges of consumer demand facing producers today. It introduces vegetable production from the perspective of producing high quality produce that satisfies the needs of the modern consumer.

Professor Gregory E. Welbaum has a long history of teaching successful courses in horticulture at Virginia Tech and other universities in the US and worldwide. *Vegetable Production and Practices* has been specifically designed to accompany courses in vegetable crop production, so is ideally suited to inspire students in crop and horticultural sciences, as well as provide a useful reference for experienced practitioners.

August 2014 / c.400 pages / PB / 9781845938024
£39.95 / €55 / US\$75



Cherries

Crop Production Science in Horticulture Series

Gregory A Lang, Michigan State University, USA

Sweet and sour cherries are grown throughout temperate fruit-growing regions worldwide. Current scientific and economic interest is focused on the sweet cherry, a challenging yet valuable crop with a growing global market. While this book covers both types, it has a stronger focus on sweet cherries and recent developments relating to this crop.

Covering genetics, cropping physiology, intensive production techniques, fruiting, pests and harvesting techniques, this indispensable book provides a comprehensive guide to cherry production. It examines the scientific principles that underlie crop production practices and the management strategies based on these to create a complete overview of cherry growing. This book is essential reading for fruit growers, breeders, academics, pomologists, undergraduate and postgraduate students of horticulture.

September 2014 / c.280 pages / PB / 9781845939502

£35 / €45 / US\$70



Fruit Ripening Physiology, Signalling and Genomics

Edited by **Pravendra Nath**, National Botanical Research Institute, India, **Mondher Bouzayen**, INRA, France, **Autar K. Mattoo**, USDA and **Jean-Claude Pech**, ENSA, France

Fruit ripening is an important aspect of fruit production. The timing of it affects supply chains and buying behaviour, and for consumers ripeness not only affects perceptions of health but has nutritional effects too. Ripeness is closely related to spoilage which has a major financial impact on agricultural industries. Currently there are fast moving developments in knowledge of the factors affecting fruit ripeness, and this up-to-date monograph seeks to draw together the disparate research in this area. The aim of the book is to produce a comprehensive account covering almost every area related to fruit ripening including the latest molecular mechanisms regulating fruit ripening, its impact on human nutrition and emerging research and technologies.

June 2014 / c.256 pages / HB / 9781845939625
£85 / €110 / US\$160



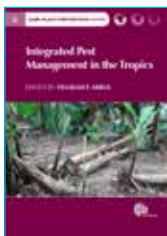
Plants as a Source of Natural Antioxidants

Edited by **Nawal Kishore Dubey**, Banaras Hindu University, India

A comprehensive overview of both traditional and current knowledge on the health effects of plant based antioxidants, this book reviews medicinal and aromatic plants from around the world. It covers the different sources of

antioxidants including essential oils, algae and marine micro-organisms, as well as the role of abiotic and biotic stresses, endophytes, transgenic approaches in scavenging ROS and antioxidant plants used in different therapeutic systems.

July 2014 / c.224 pages / HB / 9781780642666
£85 / €110 / US\$160



Integrated Pest Management in the Tropics CABI Plant Protection Series

Edited by **Dharam P Abrol**, Sher-e-Kashmir University of Agricultural Sciences and Technology, Jammu, India

The implementation of integrated pest management (IPM) is a great success in temperate areas, but its role in tropical regions is less known. The tropics face specific challenges, namely weather that impacts insect life cycles and pesticide application. Beginning by reviewing the current state of pests, biological and chemical control and emerging technologies, this book addresses specific crops, providing an up-to-date, research-oriented overview of IPM in tropical regions.

April 2014 / c.352 pages / HB / 9781780643274
£95 / €125 / US\$180



Amino Acids in Higher Plants

J P F D'Mello, Formerly of SAC (Scottish Agricultural College), Edinburgh, UK

Amino acids play a role in the defence mechanisms and stress responses of plants, as well as in food quality and safety for humans and animals. Recent advances in the field make a comprehensive overview of the information a necessity; this book collates chapters on plant enzymes and metabolism, modulation, molecular aspects and secondary products. Also including information on ecology, the environment and mammalian nutrition and toxicology, it provides an authoritative resource.

August 2014 / c.544 pages / HB / 9781780642635
£135 / €175 / US\$260



Urban Insect Pests Sustainable Management Strategies

Edited by **Partho Dhang**, Independent Consultant, Philippines

This book describes the issues of insect pests in urban settings, discussing 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, and 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.

August 2014 / c.256 pages / HB / 9781780642758
£85 / €110 / US\$160

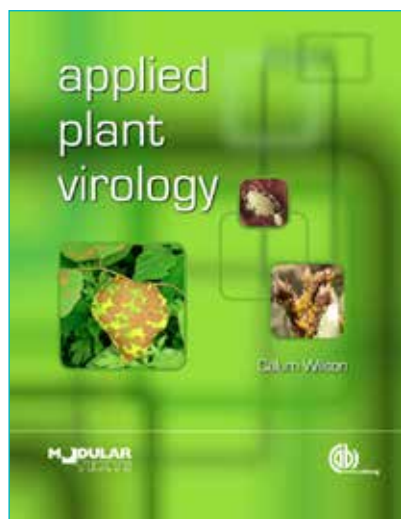


Plant-derived Pharmaceuticals Principles and Applications for Developing Countries CABI Biotechnology Series

Edited by **Kathleen L Hefferon**, University of Toronto, Canada

Describing recent developments in the engineering and generation of plants as production platforms for biopharmaceuticals, this book includes both vaccines and monoclonal antibodies. It has a particular emphasis on targeting diseases which predominate in less developed countries, encompassing the current state of technologies and describing expression systems and applications. This book also includes a variety of vaccine case studies, protecting against pervasive infectious diseases such as rabies, influenza and HIV.

August 2014 / c.192 pages / HB / 9781780643434
£75 / €100 / US\$145



Applied Plant Virology

Modular Texts



Calum Rae Wilson, University of Tasmania, Australia

Written for advanced undergraduate students, this book is a practical, in-depth guide to plant virology. Beginning with an introduction to viruses and their classification, the text describes virus pathology, including how viruses enter and move through plant cells and induce disease. Subsequent chapters discuss how viruses spread in the field and how to measure this. Throughout, the book remains reader-friendly, using focus boxes for clear, easy to obtain information, enabling students to quickly access relevant information but supply sufficient detail for advanced studies. In addition to basic information on virus biology there is an additional focus on applied virology, ideal for students undertaking agricultural studies for whom study of disease and its control is essential.

April 2014 / c.200 pages / PB / 9781845939915

£39.95 / €55 / US\$75

April 2014 / c.200 pages / HB / 9781780644257

£85 / €160 / US\$110



Health-promoting Properties of Herbs and Spices

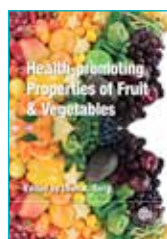
Leon A Terry, Cranfield University, UK

Herbs and spices are some of the richest sources of ascorbic acid, antioxidants and bioactive compounds, which protect against oxidative damage caused by free radicals and may reduce the incidence of certain cancers and chronic disease. Following on

from *Health-promoting Properties of Fruit and Vegetables*, this book focuses on a broad range of the most commonly-used herbs and spices, with the active ingredients and their effects on human diseases discussed for each.

September 2014 / c.400 pages / HB / 9781780640327

£125 / €175 / US\$240



Health-promoting Properties of Fruit & Vegetables

Leon A Terry, Cranfield University, UK

This book collectively discusses and reviews empirical data on health-promoting properties of major fresh produce types. It provides detailed information on identity, nature, bioavailability, chemopreventative effects and postharvest stability of specific

chemical classes with known bioactive properties. In addition, chapters discuss the various methodologies for extraction, isolation, characterisation and quantification of bioactive compounds and the in vitro and in vivo anticancer assays.

October 2013 / 432 pages / PB / 9781780644226

£45 / €60 / \$85

October 2011 / 432 pages / HB / 9781845935283

£95 / €125 / \$180



Abiotic Stresses in Crop Plants

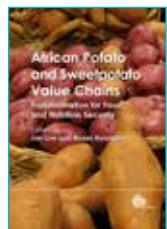
Edited by **Usha Chakraborty** and **Bishwanath Chakraborty**

This book is based to a great extent on the biochemical and molecular mechanisms of tolerance of commonly encountered abiotic stresses in nature. Covering increasing temperature, flooding, drought, salinity, and

heavy metals and ozone, it discusses how these abiotic stresses can be managed in a cost-effective and eco-friendly way by microbes through their alleviation mechanisms. Designed in four sections, it considers each stress and their alleviation methods in detail.

August 2014 / c.350 pages / HB / 9781780643731

£95 / €125 / \$180



African Potato and Sweetpotato Value Chains

Transformation for Food and Nutrition Security

Edited by **Jan Low**, International Potato Center, Kenya and **Moses Nyongesa**, Kenya International Research Institute, Kenya

Sweetpotato and potato are expanding faster than any other food crops in sub-Saharan Africa. There is growing investment in research to address bottlenecks in value chains concerning these two crops, and growing interest from the private sector in investing in them. This book addresses five major themes on sweetpotato and potato: policies for germplasm exchange, food security and trade in Africa; seed systems; breeding and disease management; post-harvest management, processing technologies and marketing systems; nutritional value and changing behaviours.

August 2014 / c.512 pages / HB / 9781780644202

£125 / €175 / US\$240



The UK Pesticide Guide 2014

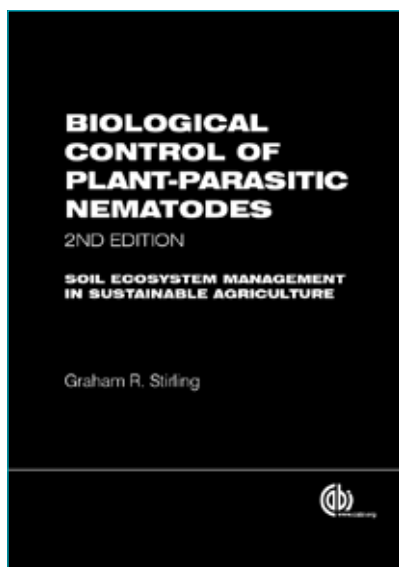
Edited by **Martin A Lainsbury**, Independent Consultant, UK

The UK Pesticide Guide is the most authoritative source of information on pesticides and adjuvants for UK agriculture, horticulture, forestry and amenity use. Edited by a leading authority in the field, this new edition is thoroughly updated with new active ingredient listings, including some new combinations of existing actives.

This information is also available as an online resource. For more information and to subscribe, visit www.plantprotection.co.uk

January 2014 / c.800 pages / PB / 9781780644103

£47.50 / €62.50 / US\$90



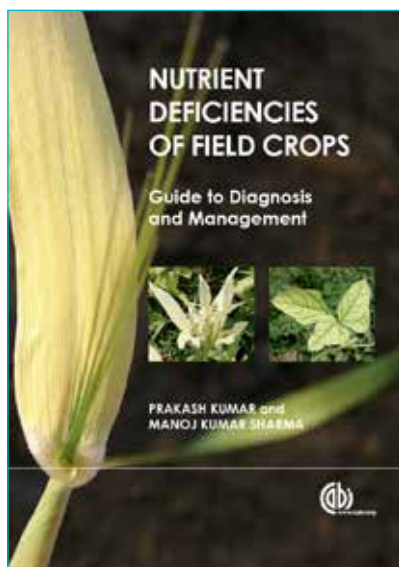
Biological Control of Plant-parasitic Nematodes, 2nd Edition Soil Ecosystem Management in Sustainable Agriculture

Graham R Stirling, Biological Crop Protection Pty. Ltd, Australia

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 programmes, 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.

July 2014 / c.496 pages / HB / 9781780644158

£125 / €165 / \$240



Nutrient Deficiencies of Field Crops Guide to Diagnosis and Management

Prakash Kumar, District Agriculture Office, India and **Manoj Kumar Sharma**, Department of Agriculture, India

Nutrient imbalance in soils is an emerging threat to sustainable agriculture: intensive cultivation, use of poor quality groundwater, depletion of soil organic matter and excessive use of fertilizers are major reasons for poor soil fertility worldwide. This necessitates correct diagnosis of plant nutrient deficiencies to avoid further use of pesticides in cases where pests or pathogens that are not in fact the cause of poor crop health. Richly illustrated with 600 colour photographs, this book is a visual field identification guide for symptoms of most common nutrient deficiencies in field crops, covering all their stages of occurrence. Detailed descriptions and suggested for management practices are given with each entry.

November 2013 / c.400 pages / HB / 9781780642789

£125 / €165 / US\$240



Biological Control Programmes in Canada 2001-2012

Edited by **Peter G Mason** and **David R Gillespie**, Agriculture and Agri-Food Canada

Canada is a world leader in biological control research. Reporting the status of biocontrol agents released in Canada over the last decade, this book presents case studies by target pest that evaluate the impact of

biocontrol and recommend future priorities.

October 2013 / 504 pages / HB / 9781780642574
£115 / €150 / US\$220



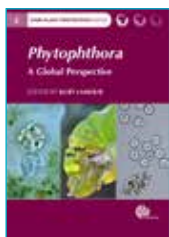
Phytochemicals of Nutraceutical Importance

Edited by **Dhan Prakash** and **Girish Sharma**

Nutraceuticals are bioactive phytochemicals that protect or promote health and occur at the intersection of food and pharmaceutical industries. This book will cover a wider spectrum of human health and diseases

including the role of phytonutrients in the prevention and treatment. The book includes chapters dealing with biological and clinical effect, molecular level approach, quality assurance, bioavailability and metabolism of a number of phytochemicals and their role to combat different diseases.

December 2013 / c.360 pages / HB / 9781780643632
£125 / €165 / US\$240



Phytophthora A Global Perspective

CABI Plant Protection Series, No 2

Edited by **Kurt Lamour**, University of Tennessee, USA

Members of the genus *Phytophthora* cause serious damage to a huge array of plants. This book provides an overview

of *Phytophthora* species impacting crops, forests, nurseries, greenhouses and natural areas worldwide. Chapters cover major hosts, identification, epidemiology, management, current research, future perspectives and the impacts of globalization on *Phytophthora*.

March 2013 / 256 pages / HB / 9781780640938
£85 / €110 / \$160



Seeds

The Ecology of Regeneration in Plant Communities

3rd Edition

Edited by **Robert S Gallagher**, Formerly of The Pennsylvania State University, USA

The 3rd edition of *Seeds: The Ecology of Regeneration in Plant Communities* highlights the many advances in the field of seed ecology and its relationship to plant community dynamics that have taken place in recent years. The new edition also features chapters on seed development and morphology, seed chemical ecology, implications of climate change on regeneration by seed, and the functional role of seed banks in agricultural and natural ecosystems.

December 2013 / c.304 pages / HB / 9781780641836
£85 / €110 / US\$160



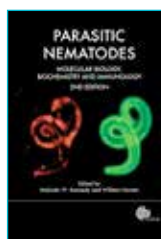
Plant Adaptation to Environmental Change

Significance of Amino Acids and their Derivatives

Edited by **Naser A Anjum**, University of Aveiro, Portugal, **Sarvajeet Singh Gill**, MD University, India and **Ritu Gill**, MD University, India

Plants constantly cope with unfavourable ecosystem conditions, which often prevent them reaching their full genetic potential in terms of growth, development and productivity. This book covers plants' responses to these environmental changes, namely, the modulation of amino acids, peptides and amines to combat both biotic and abiotic stress factors. Bringing together the most recent developments, this book is an important resource for researchers and students of crop stress and plant physiology.

December 2013 / c.376 pages / HB / 9781780642734
£115 / €150 / \$220



Parasitic Nematodes

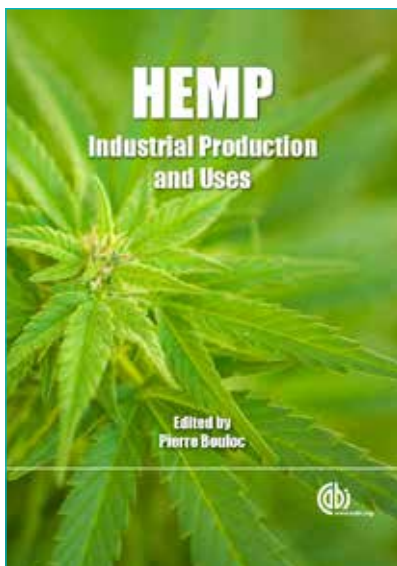
Molecular Biology, Biochemistry and Immunology

2nd Edition

Edited by **Malcolm W Kennedy**, University of Glasgow, UK and **William Harnett**, University of Strathclyde, UK

Covering a broad range of rapidly-developing research into parasitic nematodes, this comprehensively updated new edition discusses the genetics, biochemistry and immunology of nematode parasites of humans as well as domestic animals and plants.

June 2013 / 448 pages / HB / 9781845937591
£120 / €155 / \$230



Hemp

Industrial Production and Uses

Edited by **Pierre Bouloc**, **Serge Allegret** and **Laurent Arnaud**, all La Chanvriere de L'Aube (LCDA), France

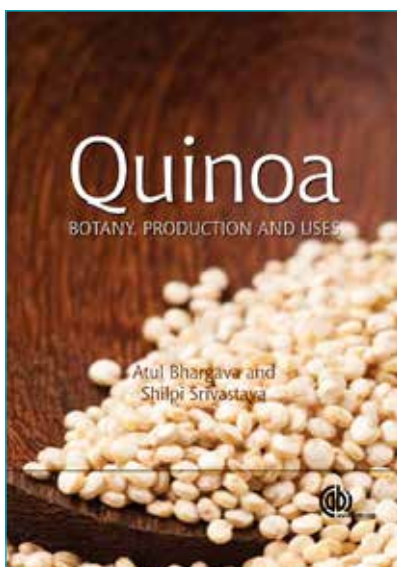
Hemp production for industrial purposes continues to grow worldwide, and is currently being used for many applications including house insulation, paper making, animal bedding, fabric, rope making and also as a biofuel. This book brings together international experts to examine all aspects of industrial hemp production, including the origins of hemp production, as well as the botany and anatomy, genetics and breeding, quality assessment, regulations, and the agricultural and industrial economics of hemp production. A translation of *Le Chanvre Industriel*, this book has been revised and updated for an international audience and is essential reading for producers of industrial hemp, industry personnel and agriculture researchers and students.

September 2013 / 328 pages / PB / 9781845937928

£45 / €60 / US\$85

September 2013 / 328 pages / HB / 9781845937935

£85 / €110 / \$160



Quinoa

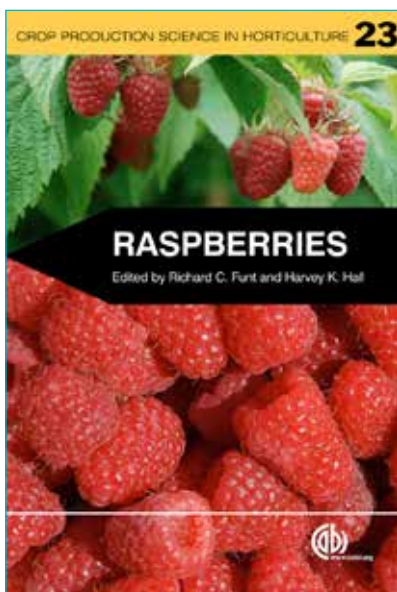
Botany, Production and Uses

Atul Bhargava and **Shilpi Srivastava**, both Amity University Uttar Pradesh [Lucknow Campus], India

Quinoa is an invaluable crop, highlighted by the Food and Agriculture Organization of the United Nations (FAO) as one of the world's main crops for future food security. The first comprehensive review of quinoa, this book includes four sections covering the history of the crop, phylogeny and systematics, botany and agrotechnology, and the qualitative aspects, economics and marketing of quinoa, making it a vital resource for students and researchers of crop science.

September 2013 / 264 pages / HB / 9781780642260

£85.00 / €110 / \$160



Raspberries

Crop Production Science in Horticulture, No. 23

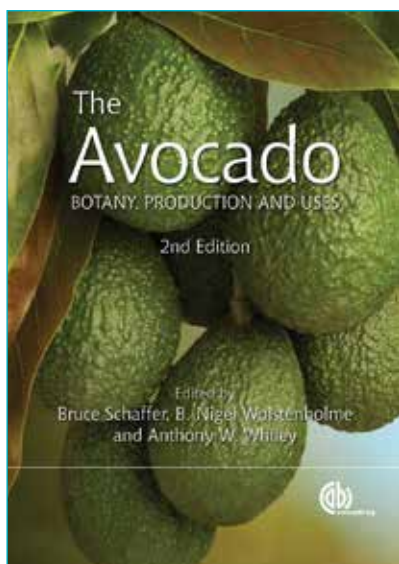
Edited by **Richard C Funt**, Ohio State University, USA and **Harvey K Hall**, Shekinah Berries Ltd., New Zealand

Providing an international overview of the modern raspberry industry, this book covers North America, Europe, Asia and the Middle East. It discusses all aspects of raspberry growing, including plant growth and development, cultivar description and selection, site selection and preparation (including soil and drainage), climate, pest control, irrigation, shipping, economics, harvesting and the marketing of the final product. Much of this publication covers research based information, including hundreds of references and nearly eighty full colour plates.

Taking a global perspective, this book provides a comprehensive yet concise reference for all horticulture students, raspberry growers, producers and fruit industry personnel looking for the latest information in raspberry production.

March 2013 / 300 pages / PB / 9781845937911

£37.50 / €50 / \$72.50



The Avocado

Botany, Production and Uses

2nd Edition

Edited by **Bruce Schaffer**, University of Florida, USA, **B Nigel Wolstenholme**, University of Kwazulu-Natal, South Africa and **Anthony M Whiley**, Sunshine Horticultural Services Pty Ltd, Australia

Although avocado has been cultivated and consumed for more than 9000 years near its centre of origin in Latin America, world production and trade has increased dramatically over the past few decades. This fully updated new edition of the successful 2002 book provides a comprehensive review of avocado production, science and technology.

January 2013 / 576 pages / HB / 9781845937010

£115 / €150 / \$220



Trichoderma

Biology and Applications

Edited by **Prasun K Mukherjee**, Central Institute for Cotton Research, India, **B A Horwitz**, Israel Institute of Technology, Israel, **U S Singh**, IRRI, India, **Mala Mukherjee**, Central Institute for Cotton Research, India and **Monika Schmoll**, AIT, Austria

Trichoderma spp. are biotechnologically significant fungi, being widely used both in agriculture and industry. Divided into three sections, covering taxonomy and physiology, interactions with plants and applications and significance, this book discusses topics that have seen rapid developments in the recent years. Various aspects of *Trichoderma* like molecular taxonomy, sexual and asexual developments, secondary metabolism, beneficial interactions with plants, applications as cell factories and harmful interactions with humans are discussed.

September 2013 / 344 pages / HB / 9781780642475
£95.00 / €125 / \$180



Tropical Fruits, 2nd Edition

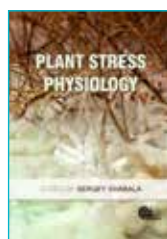
Volume 2

Crop Production Science in Horticulture,
No. 24

Edited by **Robert E Paull**, University of Hawaii at Manoa, USA and **Odilo Duarte**, Escuela Agrícola Panamericana – El Zamorano, Honduras

Volume 2 of this revised edition of *Tropical Fruits* examines the more specialist tropical fruits such as guava, durian, mangosteen, passion fruits and palm fruits. With growing interest in the cultivation, production, study, sales and marketability of these specialist fruits, this is a timely and informative book.

November 2012 / 384 pages / PB / 9781845937898
£45 / €60 / US\$85

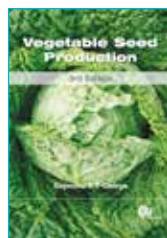


Plant Stress Physiology

Edited by **Sergey Shabala**, University of Tasmania, Australia

This book provides a timely update on the recent progress in our knowledge on all aspects of plant's perception, signalling and adaptation to a variety of environmental stresses such as drought, salinity, temperature and pH extremes, waterlogging, oxidative stress, and pathogens.

May 2012 / 328 pages / HB / 9781845939953
£85 / €110 / US\$160



Vegetable Seed Production,

3rd Edition

Edited by **Raymond A T George**, formerly of FAO, Rome, Italy

Providing a broad and expert coverage of the horticultural production of vegetables grown from seed, this fully updated new edition includes new coverage of the production of genetically modified crops, organic seed production, packaging, and honey bee population, as well as updated references and further reading.

April 2013 / 328 pages / PB / 9781780643687
£35 / €45 / \$65

October 2011 / 328 pages / HB / 9781845935214
£70 / €90 / \$135

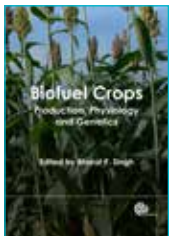


Natural Antioxidants and Biocides from Wild Medicinal Plants

Edited by **Carlos L Cespedes**, University of Bio Bio, Chile, **D A Sampietro**, Universidad Nacional de Tucuman, **D S Seigler**, University of Illinois, USA and **Mahendra Rai**, SGB Amravati University, India

This book provides an up-to-date treatment of antioxidant and biocidal compounds from Latin American plants. Descriptions are given for antioxidants with medicinal and biocidal properties; peptides with insecticidal and antimicrobial properties; and phytoecdysteroids, alkaloids, polyphenols, terpenoids with allelochemical properties.

April 2013 / 288 pages / HB / 9781780642338
£95 / €125 / US\$180



Biofuel Crops Production, Physiology and Genetics

Edited by **Bharat P Singh**, Fort Valley State University, USA

Providing comprehensive coverage on biofuel crop production and the technological, environmental and resource issues associated with a sustainable biofuel industry, this book is ideal for researchers and industry personnel. Chapters focus on the genetics, breeding, cultivation, harvesting and handling of each crop.

June 2013 / 544 pages / HB / 9781845938857
£125 / €165 / US\$240



Peppers Botany, Production and Uses

Edited by **Vincent M Russo**, USDA/ARS

This book examines peppers from historical, genetic, physiological and production perspectives, following the development of the cultivated crop from the wild type. Diverse examples of pod types and their variation in pungency are examined. Production methods and constraints are discussed, harvesting methods and post-harvest challenges and opportunities are also explored.

February 2012 / 280 pages / HB / 9781845937676
£85 / €110 / US\$160



Fungal Plant Pathogens Principles and Protocols Series

Edited by **Charles R Lane**, **Paul Beales** and **Kelvin J D Hughes**, The Food and Environment Research Agency (Fera), UK

Covering the key techniques used when working with fungal plant pathogens, this book is unique in its practical focus, providing an overview of both traditional and emerging methods and their applications, and detailed protocols on completion techniques.

March 2012 / 324 pages / PB / 9781845936686
£39.95 / €55 / US\$75



Plant Evolution and the Origin of Crop Species 3rd Edition

James F Hancock, Michigan State University, USA

This third edition brings the subject up-to-date, with more emphasis on crop origins. Beginning with a description of the processes of evolution in native and cultivated plants, the book reviews the origins of crop domestication and their subsequent development over time. All major crop species are discussed, from their origins to conservation of their genetic resources for future development.

July 2012 / 256 pages / HB / 9781845938017
£85 / €110 / US\$160



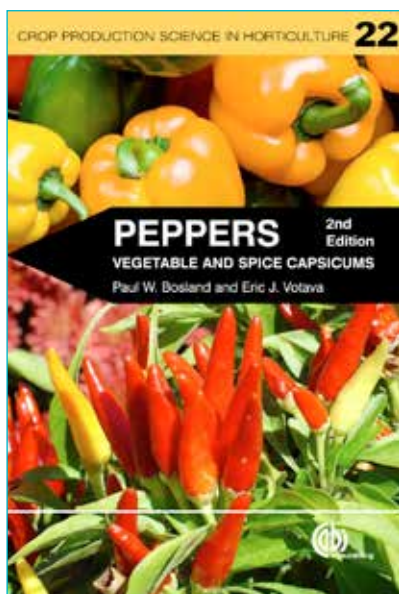
Biopesticides Pest Management and Regulation

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

Biopesticides addresses the challenges of insufficient information and imperfectly understood regulatory processes in using biopesticides. It takes an interdisciplinary approach providing internationally comparative analyses on the registration of biopesticides and debates future biopesticide practices

November 2012 / 240 pages / PB / 9781845939779
£37.50 / €50 / US\$72.50

October 2010 / 240 pages / HB / 9781845935597
£75 / €100 / US\$145



Peppers

Vegetable and Spice Capsicums, 2nd Edition

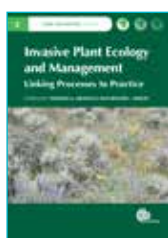
Crop Production Science in Horticulture, No. 22

Paul W Bosland, New Mexico State University, USA and **Eric J Votava**, Tierra del Sol Organics, Texas, USA

This second edition expands upon topics covered in the first, and brings the text up to date with current research. New material includes an expansion of marker-assisted breeding to cover the different types of markers available, new directions and trends in the industry, the loss of germplasm and access to it, and the long term preservation of Capsicum resources worldwide.

April 2012 / 248 pages / PB / 9781845938253

£45 / €60 / US\$85



Invasive Plant Ecology and Management

Linking Processes to Practice

CABI Invasives Series, No. 2

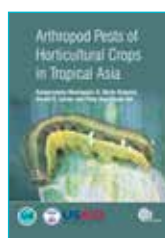
Edited by **Thomas A Monaco**, USDA-ARS, Forage and Range Research Laboratory, Utah State University, USA and **Roger L Sheley**, USDA-ARS, Eastern Oregon

Agricultural Research Center, USA

Bringing together ecology and management of invasive plants within natural and agricultural ecosystems, this book bridges the knowledge gap between the processes operating within ecosystems and the practices used to prevent, contain, control and eradicate invasive plant species.

March 2012 / 216 pages / HB / 9781845938116

£75 / €100 / US\$145



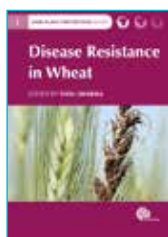
Arthropod Pests of Horticultural Crops in Tropical Asia

Rangaswamy Muniappan, IPM CRSP, USA, **B. Merle Shepard**, Clemson University, USA, **Gerald R Carner**, Clemson University, USA and **Peter Aun-Chuan Ooi**, AVRDC – The World Vegetable Center, Thailand

This book consolidates the research on pests of South and Southeast Asia, it covers the main arthropod pests of twenty five major crops, with colour photographs of their adult and immature stages, their distribution, biology, disease vectors, symptoms of the damage they cause and their natural enemies.

October 2012 / 184 pages / HB / 9781845939519

£75 / €100 / US\$145



Disease Resistance in Wheat

CABI Plant Protection Series, No. 1

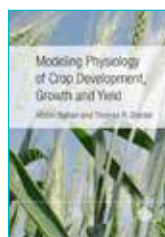
Edited by **Indu Sharma**, Punjab Agricultural University, India

Disease resistance is a major factor that can be improved to sustain yield potential in cultivated crops. This book looks at disease resistance in wheat, concentrating on all

the economically important diseases – their economic impact and geographical spread, breeding for resistance, pathogen variability, resistance mechanisms and recent advances made on resistance genes.

May 2012 / 336 pages / HB / 9781845938185

£95 / €125 / US\$180



Modeling Physiology of Crop Development, Growth and Yield

Afshin Soltani, Gorgan University of Agricultural Sciences and Natural Resources, Iran and **Thomas R Sinclair**, University of Florida, USA

Model studies focus experimental investigations to improve our understanding and performance of systems. Concentrating on crop modeling, this book provides an introduction to the concepts of crop development, growth, and yield, with step-by-step outlines to each topic, suggested exercises and simple equations.

March 2012 / 336 pages / HB / 9781845939700

£99.95 / €130 / US\$190



Blueberries

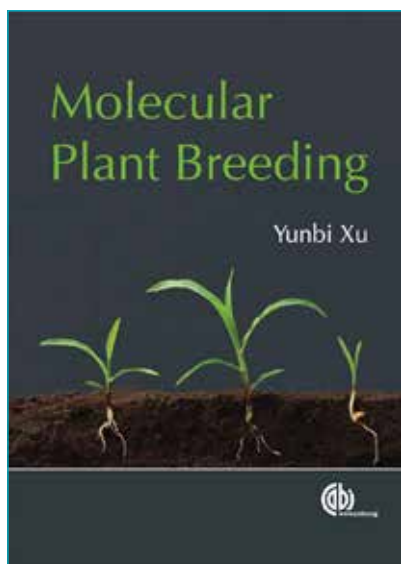
Crop Production Science in Horticulture, No. 21

Jorge B Retamales, Universidad de Talca, Chile and **James F Hancock**, Michigan State University, USA

This practical book covers the major topics of interest to blueberry breeders and researchers including botany, physiology, nutrition, growth regulation, photosynthesis, environment, weeds, pests, diseases and postharvest management. The main focus is on the most important cultivated species, the highbush blueberry, although information on other blueberries and related species is also provided.

February 2012 / 336 pages / PB / 9781845938260

£45 / €60 / US\$85



Molecular Plant Breeding



Yunbi Xu, International Maize and Wheat Improvement Centre (CIMMYT), Mexico

Molecular Plant Breeding provides an integrative overview of issues from basic theories to their applications to crop improvement. Providing an integrated profile of molecular breeding in plants, this book is an essential resource for researchers and students involved in plant biology and breeding, genetics and applied genomics.

January 2012 / 752 pages / PB / 9781845939823

£59.95 / €80 / US\$115

February 2010 / 752 pages / HB / 9781845933920

£120 / €165 / US\$240



Pesticide Manual

A World Compendium

2nd Edition

C MacBean

This is an essential reference book and data source for all those requiring authoritative, impartial and accurate information on crop protection active ingredients.

November 2012 / 1457 pages / HB / 9781901396867

£275 / €360 / US\$525



Plant Sciences Reviews 2012

Edited by **David Hemming**, CABI, UK

Plant Sciences Reviews 2012 provides scientists and students in the field with timely analysis on key topics in current research. Originally published online in *CAB Reviews*, this volume makes available in printed form the reviews in plant sciences published during 2012.

March 2013 / 616 pages / HB / 9781780643007
£95 / €125 / US\$180



Crop Plant Anatomy

Ratikanta Maiti, Vibha Agrotech Ltd, India, **Pratik Satya**, Central Research Institute for Jute and Allied Fibres, India, **Dasari Rajkumar**, Vibha Agrotech Ltd, Hyderabad, India and **Allam Ramaswamy**, Vibha Agrotech Ltd, Hyderabad, India

Divided into four sections covering anatomy in relation to crop management, anatomical descriptions of the major crop plants, anatomical changes in adaptation to environments and the link between anatomy and productivity, this book provides a comprehensive source of crop plant anatomy information.

August 2012 / 328 pages / HB / 9781780640198
£75 / €100 / US\$145



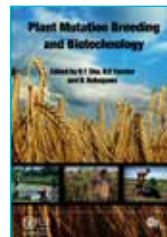
Greenhouse Technology and Management

2nd Edition

Nicolas Castilla, Agricultural Research and Training Institute, Andalucía, Spain

Greenhouse cultivation has expanded in recent decades with increased demand for food production and newly developed technologies to improve processes. This book concentrates on plant production in plastic greenhouse conditions, and covers fertilization, plant protection, current technologies and management practices.

December 2012 / 360 pages / HB / 9781780641034
£95 / €125 / US\$180



Plant Mutation Breeding and Biotechnology

Co-published with FAO and IAEA

Qing-Yao Shu, Joint FAO/IAEA Division, International Atomic Energy Agency, Austria, **Brian P Forster**, BioHybrids International Limited, UK, **Hitoshi Nakagawa**, Biomass Research & Development Center, National Agriculture and Food Research Organization

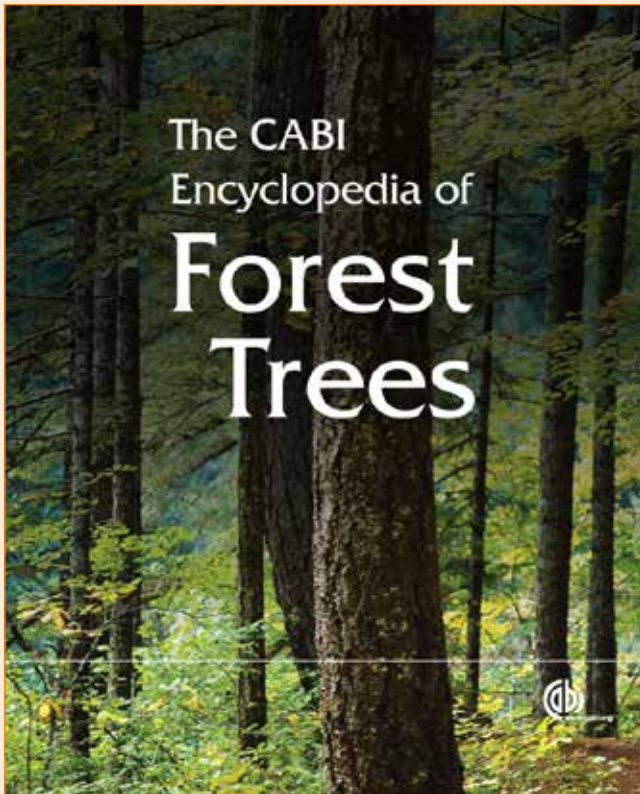
(NARO), Japan

This comprehensive book covers the underlying scientific principles, state-of-the-art technologies and methodologies of plant mutagenesis. It covers historical development and commonly used terminologies, chemical and physical mutagenesis, mutation induction, mutation breeding and mutations in functional genomics research.

October 2012 / 616 pages / HB / 9781780640853
£125 / €165 / US\$240



See all our plant science products at
www.cabi.org/publishing-products/plant-sciences



The CABI Encyclopedia of Forest Trees

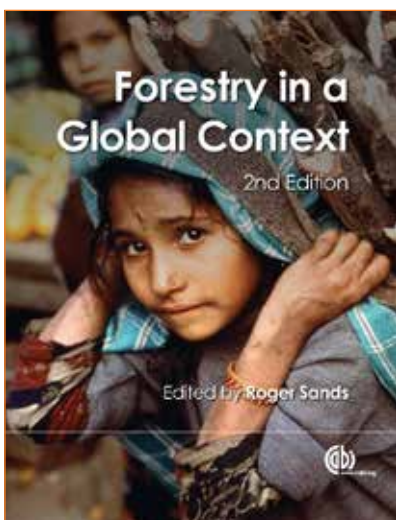
The CABI Encyclopedia of Forest Trees provides an extensive overview of 300 of the world's most important forest trees. Tropical, subtropical, temperate and boreal trees of major economic importance are included, covering tree species used in agroforestry practices around the world. Many of the species covered are considered to be 'multipurpose' trees with uses extending beyond timber alone; the land uses such as watershed protection or provision of windbreaks, and non-wood uses such as the production of medicines, resins, food and forage, are also listed.

Comprehensive information is presented on each tree's importance, with a summary of the main characteristics of the species, its potential for agroforestry use and any disadvantages it possesses. The tree's botanical features such as habit, stem form, foliage, inflorescence, flower and fruit characters and phenology are covered in detail with over 70 colour plate pictures to aid identification.

Also included are specific sections devoted to pests and diseases, distribution and silvicultural characteristics and practices, including seed sowing, nursery care, planting, thinning, and harvesting. In addition to the wealth of information detailed, based on datasheets from CABI's Forestry Compendium, selected references for further reading are provided for each entry, making this book an essential reference work for forestry students, researchers and practitioners.

September 2013 / 536 pages / HB / 9781780642369

£150 / €195 / \$290



Forestry in a Global Context, 2nd Edition



Edited by **Roger Sands**, New Zealand School of Forestry, University of Canterbury, New Zealand

From the time of hunter-gatherers to the present day, forests have played a vital role in the development of humanity and society. This broad introductory text sets world forestry in a social, environmental, historical, and economic context. The development of forests, grassland and humans is described from the Devonian through to the Age of Agriculture, covering the factors determining the distribution of forests, the classification of forest types, the value and benefits of the forest and the products of the forest and their associated trade. The book also explores issues such as sustainable forest management, current patterns of deforestation and reforestation, and future challenges facing our forests. Fully updated throughout and with new contributions from international experts, this second edition includes new chapters on climate change and international forest policy, and expanded coverage of forest products and bioenergy production.

October 2013 / c.264 pages / PB / 9781780641584

£45 / €60 / US\$85

October 2013 / c.264 pages / HB / 9781780641560

£85 / €110 / \$160



**Biosecurity Surveillance
Quantitative Approaches**

CABI Invasives Series

Edited by **Frith Jarrad, Sama Low Choy** and **Kerrie Mengersen**, all Queensland University of Technology, Australia

This book is a source of information on practical and innovative approaches to biosecurity surveillance. It explains the foundation and concepts behind surveillance design, with examples of methods and tools created to deal with surveillance challenges. With supporting case studies and including current directions in research, it covers evidence-based approaches to surveillance, statistics, detectability, single and multi-species detection, risk assessment, diagnostics, databasing, modelling of invasion and spread, optimisation, and future climate challenges.

July 2014 / c.272 pages / HB / 9781780643595
£85 / €110 / \$160



**Coexistence of GM and non-GM Crops
Practical Issues for Farmers
and Policy Makers**

CABI Biotechnology Series

Edited by **Koen Dillen**, Joint Research Centre, Spain, **Matty Demont**, Africa Rice Centre, Senegal and **Yann Devos**, European Food Safety Authority, Italy

Coexistence describes issues relating to the growing of GM and non-GM crops, particularly organic, in neighbouring areas. In this book, the interaction of costs and incentives is covered, while the determinants of the different incentives in the coexistence arena are considered in relation to economic theories and the legislative environment. A wealth of real-life examples shows how farmers interpret the coexistence regulations while balancing incentives in Europe and the global market.

August 2014 / c.208 pages / HB / 9781780643847
£75 / €100 / \$145



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

CABI Invasives Series

Edited by **Robert C. Venette**, USDA Forest Service, USA

Over the past century, the number of species that have been transported to areas outside their native range has increased steadily. New pests and pathogens place biological pressure on valuable resident species, but strict bans may conflict with trading and travel needs. An overview of how the conflict can be managed using pest risk mapping and modelling, this book uses worked examples to explain modelling and help development of tool kits for assessment.

July 2014 / c.336 pages / HB / 9781780643946
£95 / €125 / \$180

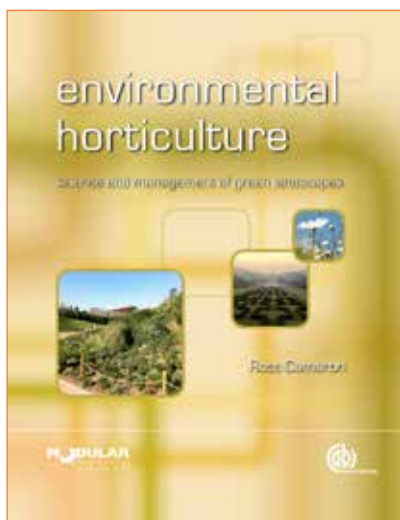


**The Guiana Shield Ecoregion
Conserving Forest-based Biocapacity
for Green Development**

Edited by **Patrick Chesney**, United Nations, Guyana

The Guiana Shield ecoregion is part of the Amazonian biome. The publication will highlight the contribution of standing forests to the high biocapacity of this ecoregion and how to leverage that capacity for sustainable development. Key topics including analysis of forest-based biocapacity; demand on biocapacity and the human development index; priority setting for achieving national and overarching regional conservation priorities; earth observation monitoring systems for payment for ecosystem services are all covered.

July 2014 / c.208 pages / HB / 9781780644066
£75 / €100 / US\$145



**Environmental Horticulture
Science and Management of Green Landscapes**

Modular Texts Series



Ross Cameron, Nigel Dunnett and **James Hitchmough**, all University of Sheffield, UK

Environmental horticulture, also referred to as landscape horticulture and amenity horticulture, is the umbrella term for the horticulture we encounter in our daily lives. It includes parks, botanic gardens, sports facilities, landscape gardens, roundabouts, cemeteries and shopping centres – any public space which has grass, planting and trees. This undergraduate level textbook is split into two parts for easy study. Part one gives an overview of environmental horticulture, discussing the impacts it has on the wider environment and why it is important, while part two covers the practical horticultural management of different categories of environmental horticulture, including turfgrass, bedding plants, trees and shrubs.

July 2014 / c.250 pages / PB / 9781780641386

£37.50 / €50 / US\$72.50



Conservation and Management of Tropical Rainforests
An Integrated Approach to Sustainability
2nd Edition

Edited by **Eberhard F Bruenig**, Former Chair of World Forestry, University of Hamburg, Germany

This new edition applies the large body of knowledge, experience and tradition available to those who study tropical rainforests. Revised and updated in light of developments in science, technology, economics, politics, etc. and their effects on tropical forests, it describes the principles of integrated conservation and management that lead to sustainability, identifying the unifying phenomena that regulate the processes within the rainforest and that are fundamental to the ecosystem viability.

March 2014 / c.376 pages / HB / 9781780641409
 £95 / €125 / US\$180



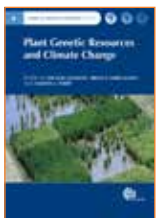
Global Forest Fragmentation

Edited by **Chris J Kettle** and **Lian Pin Koh**, both ETH Zurich, Switzerland

Forest fragmentation will inevitably continue over the coming years, especially in developing economies. This book provides a cutting edge review of the multi-disciplinary sciences related to studies of global forest fragmentation.

It specifically addresses cross-cutting themes from both an ecological and a social sciences perspective. Ultimately this book provides a detailed scientific base to support future forest landscape management and planning to meet global environmental and societal needs.

July 2014 / c.192 pages / HB / 9781780642031
 £75 / €100 / US\$145

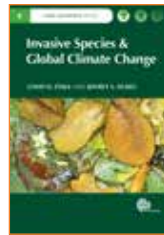


Plant Genetic Resources and Climate Change
CABI Climate Change Series

Edited by **Michael Jackson**, formerly International Rice Research Institute, The Philippines, **Brian V Ford-Lloyd**, University of Birmingham, UK and **Martin L Parry**, Imperial College, UK

This book addresses the current state of climate change predictions, and how climate change will affect conservation and use of crop germplasm, both ex situ and in situ. In addition, specific examples of germplasm research related to 'climate change threats' are highlighted. Such activities need to take place under a regime of access to and use of germplasm through international conventions and treaties.

December 2013 / c.288 pages / HB / 9781780641973
 £85 / €110 / US\$160



Invasive Species and Global Climate Change
CABI Invasives Series

Edited by **Lewis Ziska**, USDA-ARS, USA and **Jeffrey Dukes**, Purdue University, USA

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. This book will be of great value to researchers, policymakers and industry in responding to changing management needs.

July 2014 / c.288 pages / HB / 9781780641645
 £85 / €110 / US\$160

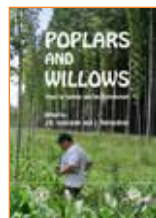


Managing Water and Agroecosystems for Food Security
Comprehensive Assessment of Water Management in Agriculture Series, No.10

Edited by **Elaine Boelee**, Water Health, The Netherlands

Water protection, food production and ecosystem health are worldwide issues. Changes in the global water cycle are affecting human wellbeing in many places, while widespread land and ecosystem degradation, driven by poor agricultural practices, is seriously limiting food production. Understanding the links between ecosystems, water, and food production is important to the health of all three, and sustainably managing these connections is becoming increasingly necessary. This book shows how sustainable ecosystems, especially agroecosystems, are essential for water management and food production.

August 2013 / 192 pages / HB / 9781780640884
 £75 / €100 / US\$145



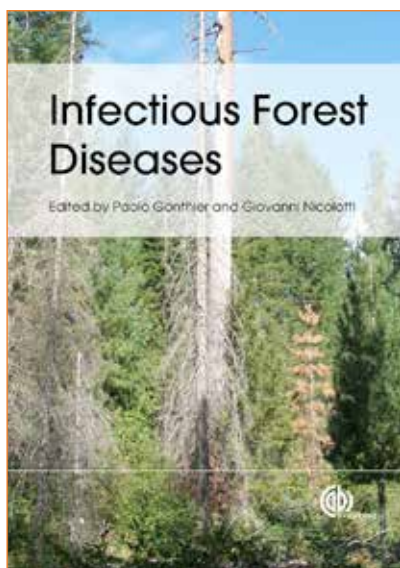
Poplars and Willows
Trees for Society and the Environment

Co-published with The Food and Agriculture Organization of the United Nations

Edited by **J G Isebrands**, Environmental Forestry Consultants, LLC, USA and **J Richardson**, J Richardson Consulting, Canada

Poplars and willows form an important component of forestry and agricultural systems, providing a wide range of wood and non-wood products. This book synthesizes research on poplars and willows, providing a practical worldwide overview and guide to their basic characteristics, cultivation and use, issues, problems and trends. Prominence is given to environmental benefits and the importance of poplar and willow cultivation in meeting the needs of people and communities, sustainable livelihoods, land use and development.

November 2013 / 672 pages / HB / 9781780641089
 £135 / €175 / US\$260



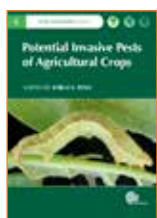
Infectious Forest Diseases

Edited by **Paolo Gonthier**, University of Torino, Italy and **Giovanni Nicolotti**, formerly University of Torino, Italy

This book covers recent advances in the management of forest diseases, including the epidemiology and infection biology of forest pathogens, and forest protection based on integrated pest and disease management approaches. A comprehensive range of diseases are discussed in detail, making this book essential reading for forest managers and extension specialists.

June 2013 / 672 pages / HB / 9781780640402

£145 / €190 / US\$275



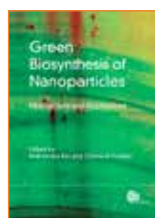
Potential Invasive Pests of Agricultural Crops

CABI Invasives Series, No 3

Edited by **Jorge E Peña**, University of Florida, USA

Regions potentially threatened by invasive arthropods need to be prepared to prevent new pests from becoming established. Therefore, information on pest identity, host range, geographical distribution, biology, tools for detection and identification are all essential to researchers and regulatory personnel. This book focuses on the most recent invasive pests of agricultural crops in temperate subtropical and tropical areas and on potential invaders, discussing their spread, biology and control.

June 2013 / 464 pages / HB / 9781845938291
£115 / €150 / US\$220



Green Biosynthesis of Nanoparticles Mechanisms and Applications

Edited by **Mahendra Rai**, SGB Amravati University, India and **Clemens Posten**, Karlsruhe Institute of Technology, Germany

There are physical and chemical methods of synthesis of nanomaterials. But due to the damage caused by these methods to the environment there is a pressing need of green nanotechnology, which is a clean and eco-friendly technology for the development of nanomaterials. This book includes green synthesis of nanoparticles by algae, diatoms and plants. The mechanism behind the synthesis of nanoparticles is also discussed.

November 2013 / c.256 pages / HB / 9781780642239
£95 / €125 / \$180



The Silviculture of Trees Used in British Forestry

2nd Edition

Peter S Savill, British and Irish Hardwoods Improvement, UK

Fully updated throughout, this new edition describes the silvicultural characteristics of trees commonly grown in the UK, including all important native species and a selection of some of the most significant exotics. With details of climatic zones, soils, productivity, pests and diseases, this book provides concise but detailed information regarding the establishment and management of forests. Detailed drawings and simple keys for identification are included.

March 2013 / 288 pages / HB / 9781780640266
£75 / €100 / US\$145



Insect Pests in Tropical Forestry

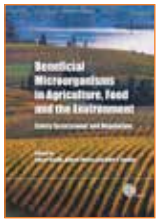
2nd Edition

F Ross Wylie, Queensland Government, Australia and **Martin R Speight**, University of Oxford, UK

The management of tropical forest ecosystems is essential to the health of the planet. This book addresses forest insect pest problems across the world's tropics. Fully updated, this second edition also includes discussions of new areas of interest including climate change, invasive species, forest health and plant clinics.

July 2012 / 376 pages / PB / 9781845936358
£39.95 / €55 / US\$75

July 2012 / 376 pages / HB / 9781845936365
£65 / €85 / US\$125



Beneficial Microorganisms in Agriculture, Food and the Environment
Safety Assessment and Regulation

Edited by **Ingvar Sundh**, Swedish University of Agricultural Sciences, Sweden, **Andrea Wilcks**, Danish Working Environment Authority, Denmark and **Mark S Goettel**, formerly Agriculture and Agri-Food Canada, Lethbridge, Canada

This book provides an overview of the available methodology for safety assessments of microorganisms. Also covered are the regulatory systems in risk assessment and management of microbial products, quarantine legislations, international treaties, the importance of public risk perception and risk reduction behaviour.

November 2012 / 360 pages / HB / 9781845938109
£95 / €125 / \$180



Microbial Biotechnology
Energy and Environment

Edited by **Rajesh Arora**, Defence Research and Development Organization, India

Human actions across the past few centuries have led to a depletion of the world's natural energy sources, as well as large scale environmental degradation. In the context of these current global issues, this book covers the latest research on the application and use of microbes in topical areas such as bioremediation and biofuels.

November 2012 / 416 pages / HB / 9781845939564
£95 / €125 / \$180



Life at Extremes
Environments, Organisms and Strategies for Survival

Edited by **Elanor M Bell**, Australian Marine Mammal Centre, Australia

From icy poles to arid deserts, boiling pools to the depths of the sea, this exciting new work studies the remarkable life forms that have made these inhospitable environments their home. A fascinating and comprehensive resource, this book is packed with colour figures and photos showcasing the most extreme environments and the organisms that have adapted to live in them.

March 2012 / 576 pages / HB / 9781845938147
£95 / €125 / US\$180



Introductory Probability and Statistics
Applications for Forestry and Natural Sciences

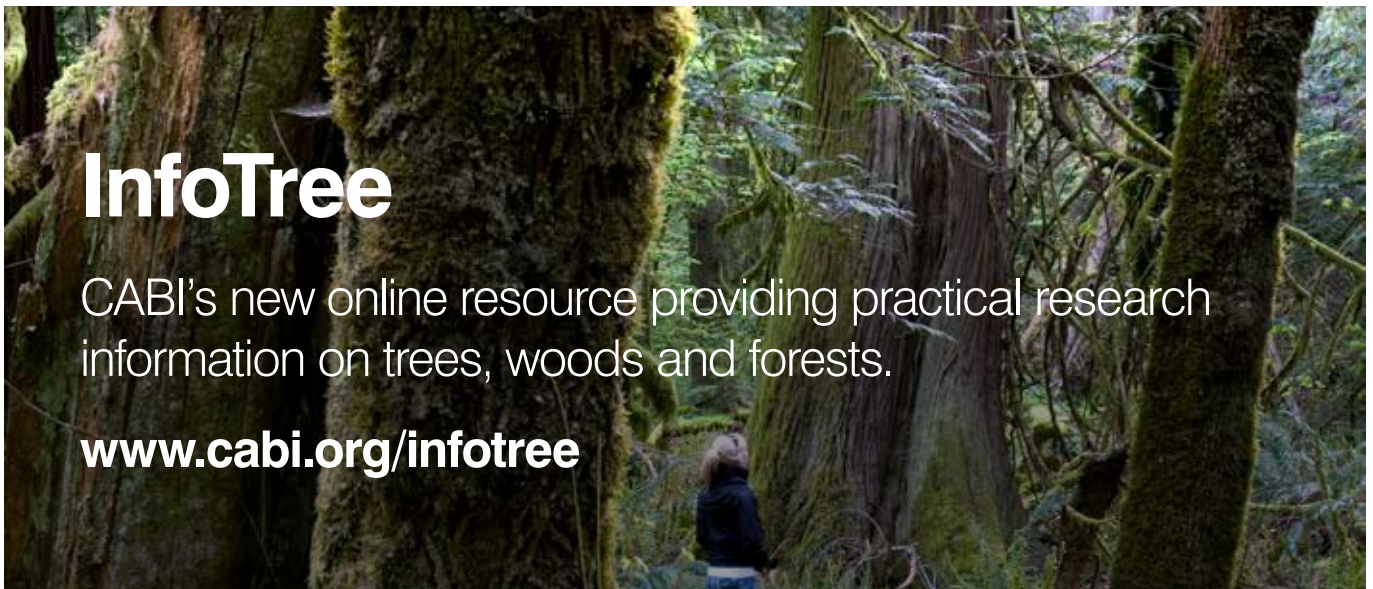
Edited by **Antal Kozak, Robert A Kozak and Susan B Watts**, University of British Columbia, Canada and **Christina L Staudhammer**, University of

Alabama, USA

With interest growing in areas of forestry, conservation and other natural sciences, the need to organize and tabulate large amounts of forestry and natural science information has become a necessary skill. This book utilises basic descriptive statistics and probability, as well as commonly used statistical inferential tools to introduce topics that are commonplace in a forestry context.

January 2012 / 448 pages / PB / 9781780640518
£35 / €45 / US\$70

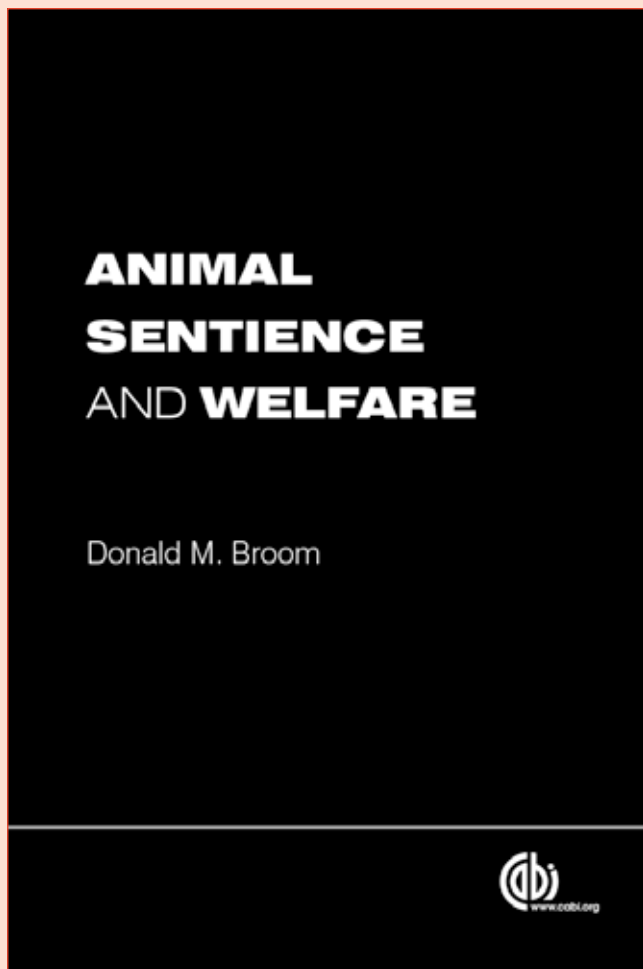
June 2008 / 448 pages / HB / 9781845932756
£60 / €80 / US\$115



InfoTree

CABI's new online resource providing practical research information on trees, woods and forests.

www.cabi.org/infotree



Animal Sentience and Welfare

Donald M Broom, University of Cambridge Veterinary School, UK

Sentience – the ability to feel, perceive and experience – is central to the animal welfare debate as it raises the question of whether animals experience suffering in life and death. This book explores and answers these questions in an objective way, based on the latest research and empirical evidence.

Beginning with an introduction to sentience, the book investigates why we are so interested in sentience, when, as a species, humans became sentient and how this has changed over time. The book defines aspects of sentience such as consciousness, memory and emotions, and discusses brain complexity in detail.

Looking at sentience from a developmental perspective, the book analyses when in an individual's growth sentience can be said to appear and uses evidence from a range of studies investigating embryos, fetuses and young animals to form an enlightening overview of the subject.

With a full chapter covering ethical decisions such as animal protection and experimentation, this book is not only an invaluable resource for researchers and students of animal welfare and biology, but also an engaging and informative read for veterinarians and the general public.

September 2014 / c.256 pages / PB / 9781780644042
£37.50 / €50 / US\$72.50

September 2014 / c.256 pages / HB / 9781780644035
£75 / €100 / US\$145

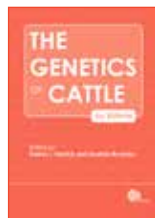


A Manual for Tilapia Business Management

Ram C Bhujel, Asian Institute of Technology (AIT), Thailand

Tilapias are an increasingly important farmed fish for human consumption. Hailed as an important source of protein for growing populations, production is set to double within the next ten years and expand beyond traditional areas of production in Africa and Asia. With a practical focus, this book is aimed at tilapia farmers and producers, describing best practice production methods, egg management, new technologies, nutrition, business practices, marketing, equipment maintenance, accounting and logistics.

June 2014 / c.192 pages / HB / 9781780641362
£75 / €100 / US\$145

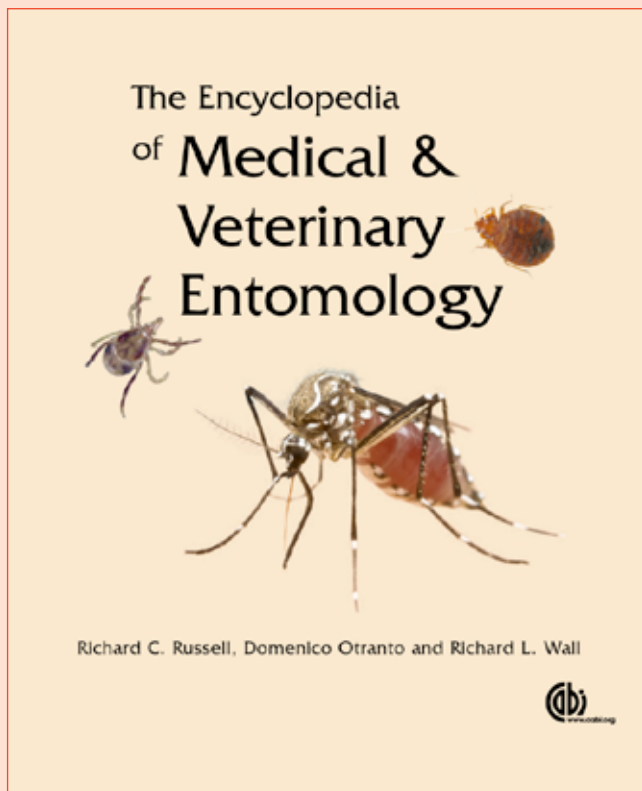


The Genetics of Cattle, 2nd Edition

Edited by **Dorian J Garrick**, Iowa State University, USA and **Anatoly Ruvinsky**, University of New England, Australia

Understanding of cattle genetics and genomics has increased dramatically. This book covers genetic components behind important factors in cattle production such as breeds, disease resistance, growth, development, behaviour, body composition and meat quality. With significant updates throughout, this new edition includes significantly updated material, new contributing authors, and new chapters on genetics of fat production and deposition, nutrition, feed intake and feed efficiency, growth and body composition and genomic selection in beef and dairy cattle.

September 2014 / c.360 pages / HB / 9781780642215
£115 / €150 / US\$220



The Encyclopedia of Medical and Veterinary Entomology

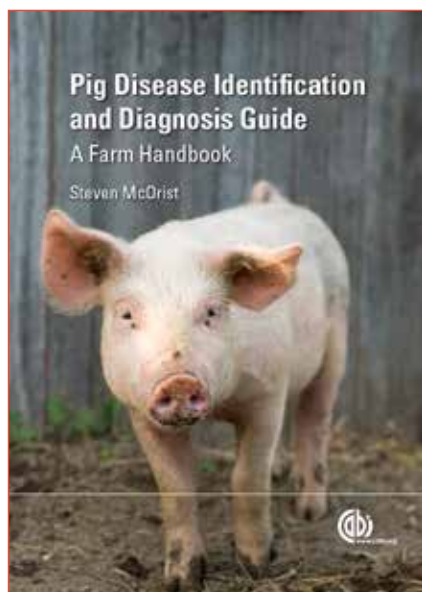
Richard C Russell, University of Sydney, Australia, **Domenico Otranto**, University of Bari, Italy and **Richard Wall**, University of Bristol, UK

Arthropod transmitted infections continue to be a front-line issue in all regions of the world. Understanding the insects that transmit diseases, the mechanisms of infection and the resulting diseases is vital to doctors, veterinarians, public health workers and disease control agencies.

This major reference examines the biology, classification and control of arthropods that cause disease in animals and humans. The morphology, taxonomy and phylogeny of fleas, flies, lice, mites, midges, mosquitoes and ticks are described, with descriptions of their medical and veterinary significance, diseases they cause, insect distribution and global disease spread.

Updated, developed and reworked from Doug Kettle's seminal *Medical and Veterinary Entomology*, this major new reference presents vital information in encyclopedia format, with alphabetical entries and an extensive index to make key facts easy to find. This new treatment of the subject provides accessible content and up-to-date research, illustrated by line drawings and colour photographs.

June 2013 / 440 pages / HB / 9781780640372
£125 / €165 / US\$240



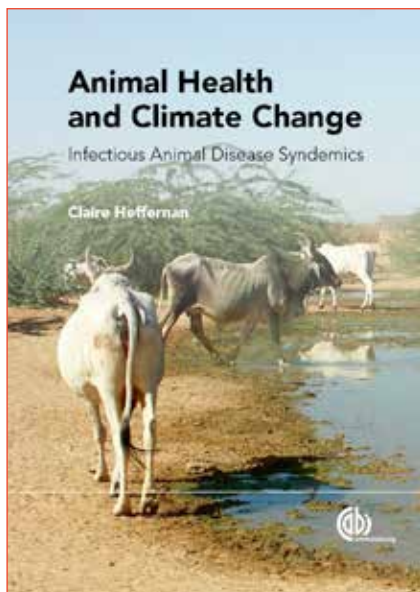
Pig Disease Identification and Diagnosis Guide A Farm Handbook

Steven McOrist, University of Nottingham, UK

Pork is one of the world's most widely consumed meats, with the pig industry undergoing recent rapid expansion across Asia and Latin America. This Q & A handbook covers around 100 cases of the world's most common pig diseases, with each disease clearly presented as a quick look-up clinical case presentation. This quick reference guide will be an invaluable source of information for anyone working in pig production.

Sept 2014 / c.250 pages / HB / 9781780642123

£49.95 / €65 / US\$99.95



Animal Health and Climate Change Infectious Animal Disease Syndemics

Claire Heffernan, University of Reading, UK

Various factors are having a significant impact on the spread of animal disease, and climate change and changing weather patterns are major considerations. While taking into account other factors, this book focuses on providing a balanced assessment of the current state of knowledge and potential future impacts of climate change across a range of infectious animal diseases. Including viral, tick-borne, parasitic and zoonotic diseases, it also covers delivery of livestock services, control strategies and examines the usefulness of methodologies such as priority setting and futures research in dealing with the issue of climate change and animal health.

September 2014 / c.552 pages / HB / 9781780642383

£125 / €165 / US\$240



One Health

The Theory and Practice of Integrated Health Approaches

Edited by **Jakob Zinsstag**, Swiss Tropical and Public Health Institute, Switzerland, **Esther Schelling**, Swiss Tropical and Public Health Institute, Switzerland, **Maxine Whittaker**, University of Queensland, Australia and **Marcel Tanner**, Swiss Tropical and Public Health Institute, Switzerland and **David Waltner-Toews**, University of Guelph, Canada

This book examines the origins of One Health and includes practical content on methodological tools, data gathering, monitoring techniques, study designs and mathematical models. Discussing how to put policy into practice, zoonotic diseases and real-world issues such as sanitation, food security and vaccination programmes are covered in detail.

December 2014 / c.300 pages / HB / 9781780643410

£125 / €165 / US\$240



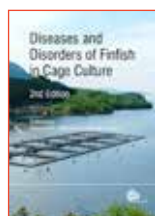
Small Animal Soft Tissue Surgery

Donald Yool, Edinburgh University, UK

This practical textbook provides essential information and easy to follow instructions for performing everyday surgeries. Common procedures are detailed as well as instrument preparation and use, theatre preparation, tissue handling, antibiotics, sutures and nutritional support, with a best practice approach.

January 2012 / 402 pages / PB / 9781845938215

£49.95 / €65 / US\$99.95



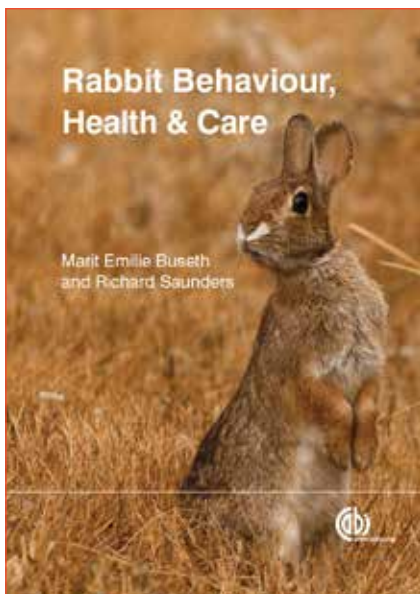
Diseases and Disorders of Finfish in Cage Culture, 2nd Edition

Edited by **Patrick T K Woo**, University of Guelph, Canada and **David W Bruno**, Marine Scotland, Aberdeen, UK

This new edition is a timely update on important advances in the understanding of infectious diseases of finfish. The content has been significantly updated to reflect current knowledge and the developments in the fish production industry, including the dramatic increases in production in the Asia-Pacific region. An important resource for aquaculturalists, fish health consultants and fish pathologists.

July 2014 / c.350 pages / HB / 9781780642079

£125 / €165 / US\$240



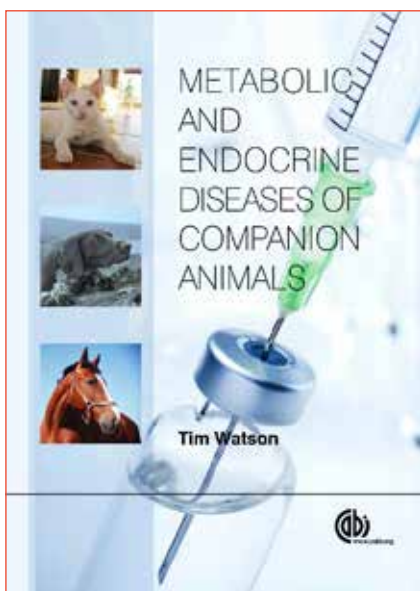
Rabbit Behaviour, Health & Care

Marit Emille Buseeth, Independent Consultant, Norway and **Richard Saunders**, Highcroft Veterinary Referrals, UK

Developed from the successful Norwegian book *Den Store Kaninboka* (The Big Book of Rabbits), this richly illustrated book covers all aspects of rabbit behaviour, welfare, health and husbandry, with updated and expanded content also relevant for veterinarians. Focussing on domestic rabbits, the book describes normal behaviour as the basis for optimal welfare. Information on wild and laboratory rabbits is also included to show how behaviours such as socialisation, learning and communication can differ depending on environment. Health matters such as nutrition and oral health are also covered in detail, and case studies from around the world give this valuable resource an international perspective.

May 2014 / c.232 pages / PB / 9781780641904

£29.95 / €40 / US\$55



Metabolic and Endocrine Diseases of Companion Animals

Tim Watson, formerly The Equine Veterinary Clinic, UK

Metabolic and endocrine diseases are universal health problems that cause grief and heartache to pet owners worldwide. Designed to provide the small animal and equine vet with a concise reference, this book brings together a practical guide to these diseases in the three main companion animals for the first time: dogs, cats and horses. Beginning with coverage of the organs and glands in the endocrine and metabolic systems, the book goes on to cover the main disorders and conditions caused by malfunctioning glands and organs, including Cushing's diseases, Addison's disease, hyperthyroidism, diabetes and obesity. Finally, a third section on identification and diagnosis aims to provide newly qualified vets and students with a practical source of guidance, while being equally useful as a refresher guide for more experienced vets.

September 2014 / c.250 pages / HB / 9781845939670

£65 / €85 / US\$125



Bacteria and Fungi from Fish and Other Aquatic Animals, 2nd Edition

A Practical Identification Manual

Nicky B Buller, Department of Agriculture and Food, Western Australia

This practical book provides an updated resource for the identification of bacteria found in animals inhabiting the aquatic environment, illustrated with colour photos. It contains expanded biochemical identification tables to include newly identified pathogenic and saprophytic bacteria, molecular identification tests now available for a greater number of aquatic bacterial pathogens, more information on the pathogenesis and virulence of each organism and new coverage of traditional and molecular identification of fungal pathogens and quality assurance standards for laboratories.

July 2014 / c.448 pages / HB / 9781845938055

£95 / €125 / \$180



Mononegaviruses of Veterinary Importance, Volume 1 Pathobiology and Molecular Diagnosis

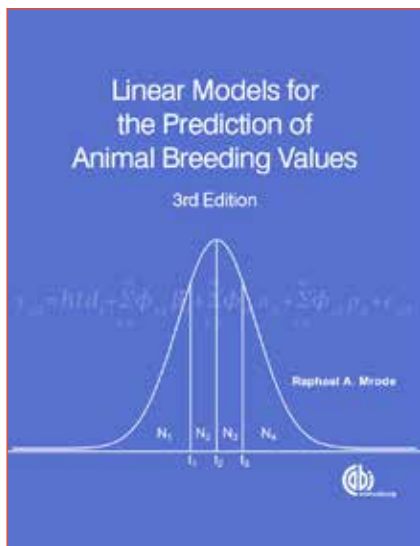
Edited by **Muhammad Munir**, Swedish University of Agricultural Science, Sweden

Mononegavirales are an order of viruses affecting large, small and marine animals.

Discussing the pathology and laboratory diagnosis of important viruses, this book covers those that cause a significant threat to animals in terms of their severity and epidemiological risk, as well as those which are used as models in the study of infectious disease. Also including viruses with zoonotic potential, this book reviews the literature for Rhinderpest, Rabies and Ebola.

November 2013 / c.344 pages / HB / 9781780641799

£95 / €125 / US\$180



Linear Models for the Prediction of Animal Breeding Values
3rd Edition

Raphael A Mrode, Scottish Agricultural College, UK

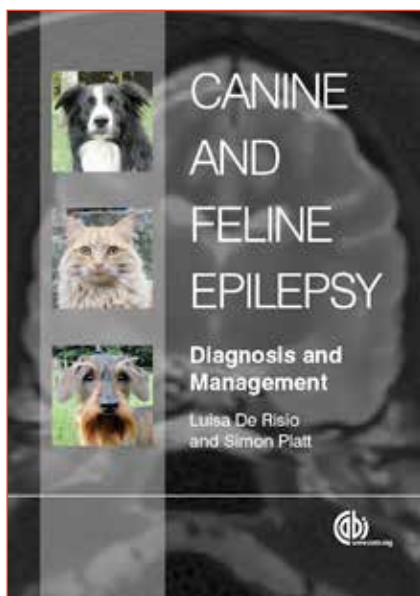
The prediction of producing desirable traits in offspring such as increased growth rate, or superior meat, milk and wool production is a vital economic tool to the animal scientist. Summarising the latest developments in genomics relating to animal breeding values and design of breeding programmes, this new edition includes models of survival analysis, social interaction and sire and dam models, as well as advancements in the use of SNPs in the computation of genomic breeding values.

January 2014 / c.350 pages / PB / 9781845939816

£49.95 / €65 / US\$95

January 2014 / c.350 pages / HB / 9781780643915

£95 / €125 / US\$180



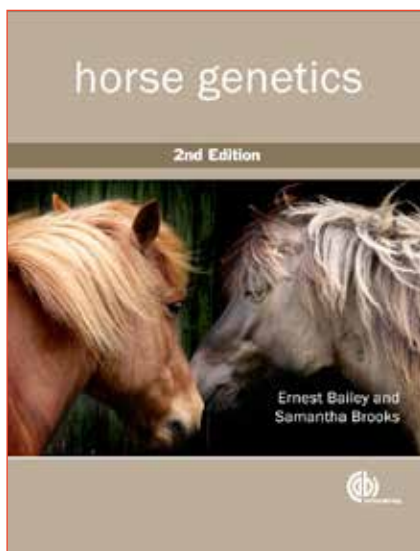
Canine and Feline Epilepsy
Diagnosis and Management

Luisa De Risio, Animal Health Trust, UK and Simon Platt, University of Georgia, USA

Epilepsy is one of the most familiar chronic neurological diseases and is a common yet challenging presentation in veterinary surgeries. This book covers seizure pathogenesis, classifications, diagnostic investigations, emergency treatments and longer term treatments, with a large section on pharmacological intervention. Filling a considerable gap in the veterinary literature, it includes tables and charts for quick reference during emergencies. Seizures can be very distressing to animals and owners, yet not all seizures are the result of epilepsy, a neurological condition. This book discusses how to distinguish between epileptic and non-neurological seizures, and provides case studies to illustrate different occurrences of epilepsy.

July 2014 / c.300 pages / HB / 9781780641096

£85 / €110 / US\$160



Horse Genetics
2nd Edition

Ernest Bailey, University of Kentucky, USA and Samantha A Brooks, Cornell University, USA

This essential textbook describes the basic genetics of the horse including coat colour, parentage, medical and population genetics, cytogenetics, performance, breeding systems and genetic conservation, and new advances such as micro-satellite testing. The authors have updated Dr. Ann T. Bowling's seminal work in light of the sequencing of the complete horse genome, and in addition to the basic genetic principles and their specific applications to the horse, new and revised topics include the development of genomics, gene expression, the relationship of the genome to physiological function, blood groups, transfusion medicine and haemolytic disease of newborn foals. It also includes a greater description of the diversity of breeds of horse in the world, and equid evolution. It is an essential book for students of equine studies, animal breeding and veterinary science, as well horse breeders and owners.

July 2013 / 216 pages / PB / 9781845936754

£35 / €45 / US\$70

July 2013 / 216 pages / HB / 9781780643298

£70 / €90 / US\$135

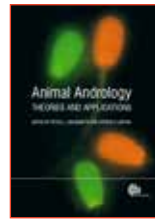


Animal Nutrition with Transgenic Plants
CABI Biotechnology Series

Edited by **Gerhard Flachowsky**,
 FLI Braunschweig, Germany

Transgenic plants are cultivated on a large scale worldwide, and most of the harvested products are fed to domestic animals. By gathering together more than 150 feeding studies with food-producing animals, and covering both first and second generation transgenic plants, this book provides the first central resource of this information for researchers, students, policy makers and all those who are interested in future developments in the field.

November 2013 / c.240 pages / HB / 9781780641768
£85 / €110 / US\$160

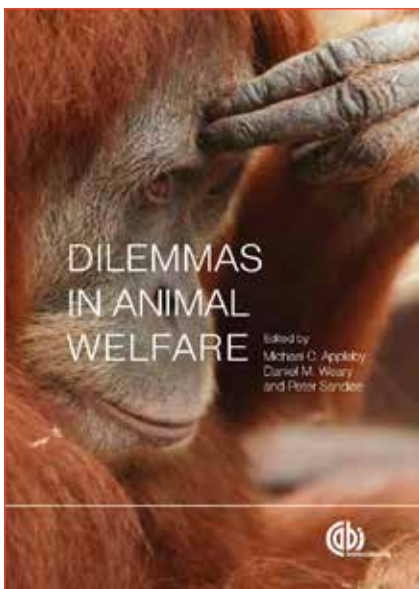


Animal Andrology
Theories and Applications

Edited by **Peter J Chenoweth**, Cheno Vet, Australia and **Steven Lorton**, Reproduction Resources, USA

Understanding animal andrology is fundamental to optimising genetic breeding traits in domestic and wild animals. This book provides extensive coverage of male reproductive biology, discussing the essentials of sperm production, harvest and preservation before covering the applications to a range of animals including cattle, horses, pigs, small ruminants, camelids, cats and dogs, poultry and exotic species. It also examines the laboratory procedures that provide the basis of general fertility research.

April 2014 / c.568 pages / HB / 9781780643168
£125 / €165 / US\$240



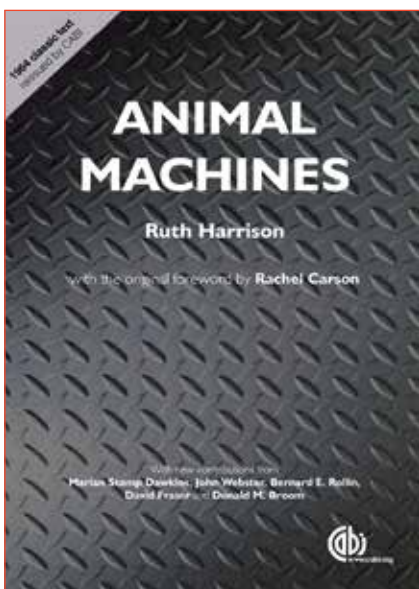
Dilemmas in Animal Welfare

Edited by **Michael C Appleby**, World Society for the Protection of Animals (WSPA), UK, **Peter Sandøe**, University of Copenhagen, Denmark and **Daniel M Weary**, The University of British Columbia, Canada

There are endless on-going debates in animal welfare. This book seeks to distil some of the major themes of current debate into one volume edited by internationally known names in the field of animal welfare. Each chapter, written by a leading expert will discuss in an open-handed way a provocative topic, which will be of interest to anyone concerned with animal welfare. Issues covered include tail docking, pet obesity, isolation vs. group aggression, neutering feral cats and the need to conserve wildlife habitats in the face of wild animal overpopulation.

April 2014 / c.216 pages / HB / 9781780642161

£75 / €100 / US\$145



Animal Machines

Ruth Harrison, Animal welfare author (1920 – 2000), UK

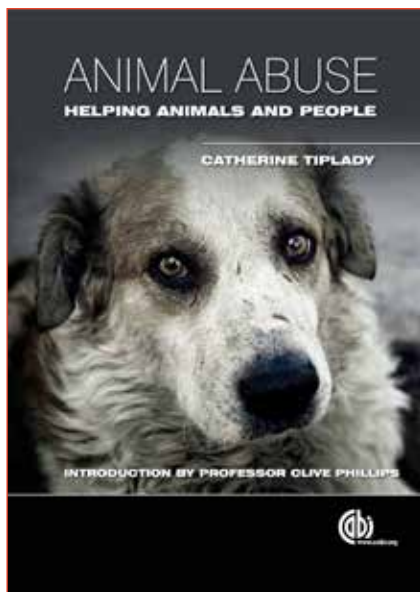
With a foreword by **Rachel Carson**, author of Silent Spring

First published in 1964, Ruth Harrison's book had a profound and lasting impact on world agriculture, public opinion and the quality of life of millions of farmed animals. Written at the beginning of the intensive farming movement, which promised progress but in reality worsened conditions for domesticated animals, *Animal Machines* provides a fascinating insight into the system we are living with today and must continue with as the global population increases.

Harrison's work brought about legal reforms, a greater understanding of farm conditions for animals and increased public awareness. *Animal Machines* is reprinted here in its entirety, accompanied by new chapters by world-renowned experts in animal welfare discussing its legacy and impact 50 years on.

March 2013 / 224 pages / HB / 9781780642840

£27.50 / €35 / US\$52.50



Animal Abuse

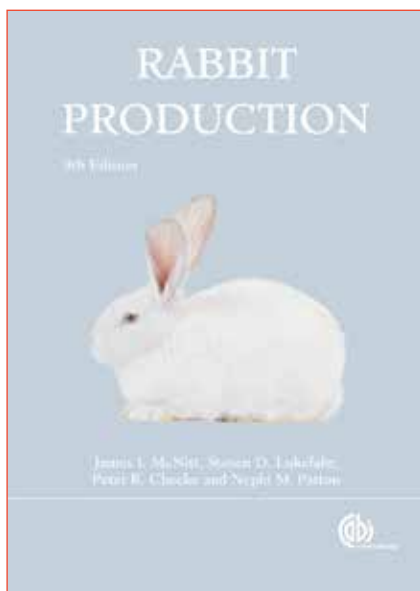
Helping Animals and People

Catherine Tiplady, Animal Welfare League Community Veterinary Clinic and University of Queensland, Australia

Animal abuse affects everybody working in animal-related industries, and constitutes a significant part of veterinary caseloads and animal shelter work. Based on the author's experience as a shelter worker and veterinarian, this book provides advice and assistance to those working with animal abuse. With contributions from world-renowned experts including Phil Arkow and David Bailey, and an introduction by Clive Phillips, *Animal Abuse: Helping Animals and People* provides practical advice and insights into issues surrounding this emotional subject.

April 2013 / 224 pages / HB / 9781845939830

£65 / €85 / US\$125



Rabbit Production

9th Edition

James I McNitt, Southern University Agricultural Research and Extension Centre, USA, **Steven D Lukefahr**, Texas A&M University, USA, **Peter Robert Cheeke** and **Nephi M Patton**, Oregon State University, USA

This new edition of *Rabbit Production* is fully updated throughout. While mainly covering rabbits bred for meat and fur, it also contains practical information on pet rabbits, show rabbits and rabbits used as laboratory animals. It addresses the core topics for any rabbit specialist as well as expanded coverage of animal welfare and coat colour genetics.

March 2013 / 314 pages / PB / 9781780640112

£39.95 / €55 / US\$75

March 2013 / 314 pages / HB / 9781780640129

£85 / €110 / US\$160



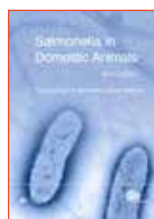
Farm Animal Medicine and Surgery For Small Animal Veterinarians

Graham R Duncanson, Westover Veterinary Centre, UK

Small animal veterinarians are increasingly taking on caseloads that include farm animals, with cases being presented by local hobby farmers, smallholders, and 'novelty pet' owners. Recognising this trend, this book provides a quick reference guide for small-animal orientated veterinarians in the basics of surgery and treatment of farm animals.

April 2013 / 274 pages / PB / 9781845938833
£45 / €60 / US\$85

April 2013 / 274 pages / HB / 9781845938826
£85 / €110 / US\$160

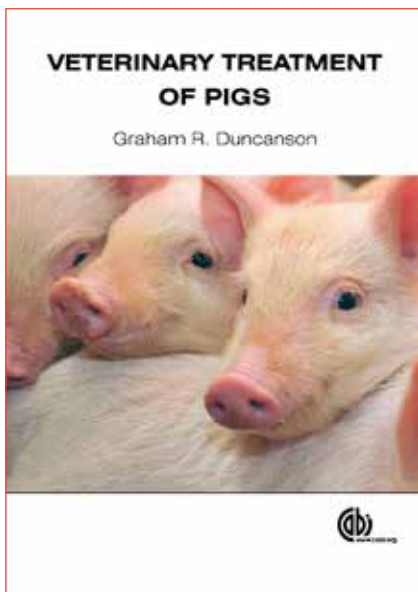


Salmonella in Domestic Animals 2nd Edition

Edited by **Paul Barrow**, University of Nottingham, UK and **Ulrich Menthner**, Friedrich-Loeffler-Institut, Germany

Salmonella remains a major cause of economic loss in domestic livestock and human food poisoning worldwide. With fully updated chapters and new coverage of genome structure, virulence, vaccine development, molecular methods for epidemiology and exotics, this second edition is an invaluable resource for researchers of animal and human health.

June 2013 / 560 pages / HB / 9781845939021
£125 / €165 / US\$240



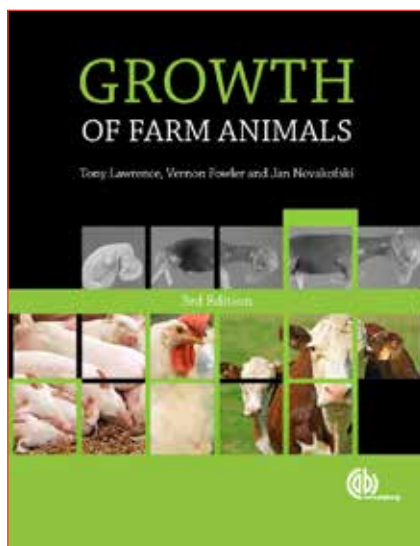
Veterinary Treatment of Pigs

Graham R Duncanson, Westover Veterinary Centre, UK

Written from a practitioner's viewpoint, this book covers the everyday veterinary care and treatment of pigs for the large animal veterinarian. Beginning with basic husbandry, maintenance and nutrition, the book then moves onto diagnosing conditions, the necessary equipment and medicines in a veterinarian's arsenal and different treatment options, before describing diseases by body system to create an easy-to-use, practical guide to pig treatment. Equally suitable for veterinarians, veterinary students and pig industry personnel, this book takes a worldwide approach with notifiable diseases as laid out by the OIE covered, as well as poisons and diseases beyond the UK and a full chapter on the dangers and control strategies of zoonotic diseases.

December 2013 / 192 pages / HB / 9781780641720

£75 / €100 / US\$145



Growth of Farm Animals

3rd Edition

Tony L J Lawrence, formerly University of Liverpool, UK, **Vernon R Fowler**, formerly Scottish Agricultural College and Rowett Research Institute, UK and **Jan E Novakofski**, University of Illinois, USA

Understanding the processes that change the shape and composition of farm animals is fundamental to all aspects of production. Showing the progression from cell to tissue to entire animal, this comprehensive textbook provides an essential broad base for animal production, with key information on how animals grow and change in shape and composition, and factors that affect these processes. Illustrated with new photographs and focus boxes highlighting vital points, this updated third edition includes a new chapter on avian growth, an important source of protein for the expanding population. Providing a thorough, yet student-friendly approach to the subject, this book continues to fill the important role of helping readers to understand how the basics of growth must be thoroughly understood if farm animals are to be used efficiently and humanely in producing food for mankind.

July 2012 / 368 pages / PB / 9781845935580

£49.95 / €65 / US\$99.95

July 2012 / 368 pages / HB / 97817880641461

£115 / €150 / US\$220



External Parasites of Small Ruminants

A Practical Guide to their Prevention and Control

Peter Bates, Veterinary Medical Entomology Consultant (VMEC)

This book gives practical guidance on preventing and controlling ectoparasites that contribute to disease and infection in sheep and goats, discussing types of parasites, the diseases they cause and what methods of control are available, as well as wider implications such as animal welfare and environmental impacts.

February 2012 / 256 pages /HB / 9781845936648

£65 / €85 / US\$125



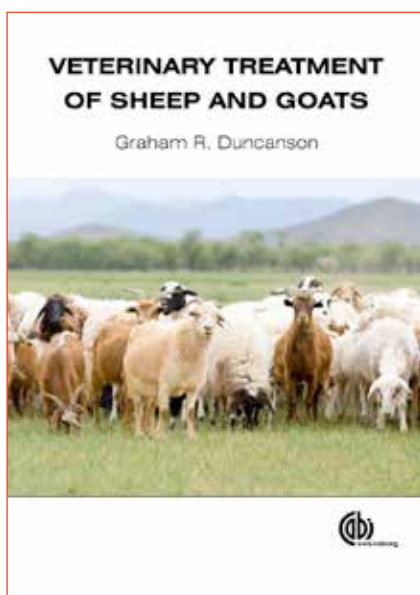
Veterinary Practice Management

Catherine R Coates, University of Bristol, UK

Drawing together the latest information on practice management, this textbook provides practical and straightforward coverage of major elements, including client relationships and staff management, business and financial procedures, computer systems and project management. This book covers practice management topics as taught in veterinary schools worldwide, providing students with a textbook resource in this increasingly important subject. It is also a valuable source of information for newly qualified veterinarians, veterinarians interested in practice management and veterinary practice managers.

November 2012 / 192 pages / PB / 9781845939809

£35 / €45 / US\$70



Veterinary Treatment of Sheep and Goats

Graham R Duncanson, Westover Veterinary Centre, UK

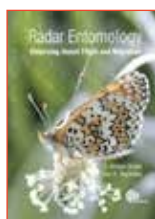
Sheep and goats are farmed worldwide for meat, milk, skins and wool. This diverse range of uses means that many people rely on these animals as a source of income, food and warm clothing, though they can also be kept as pets. With an accessible structure designed for use in the field, this book provides a general veterinary guide to treating common conditions in these animals. It addresses veterinary medicines and their uses, on-site surgery, equipment, normal values and vital signs, vaccination, nutrition, dental treatment, poisoning and dermatology. Worldwide disease conditions are also covered in detail, with a particular focus on the welfare of the animal and economic reality.

April 2012 / 192 pages / PB / 9781780640044

£45 / €60 / US\$85

April 2012 / 192 pages / HB / 9781780640037

£75 / €100 / US\$145



Radar Entomology

Observing Insect Flight and Migration

Alistair Drake, University of New South Wales, Australia and **Don R Reynolds**, University of Canberra, Australia

Many of the world's most serious agricultural pests are highly migratory. This book examines the behaviour and regional variations of migrating pest species, the altitude of migration, concentration of insects in layers and how they respond to large and small-scale wind systems.

October 2012 / 512 pages / HB / 9781845935566
£155 / €200 / US\$295



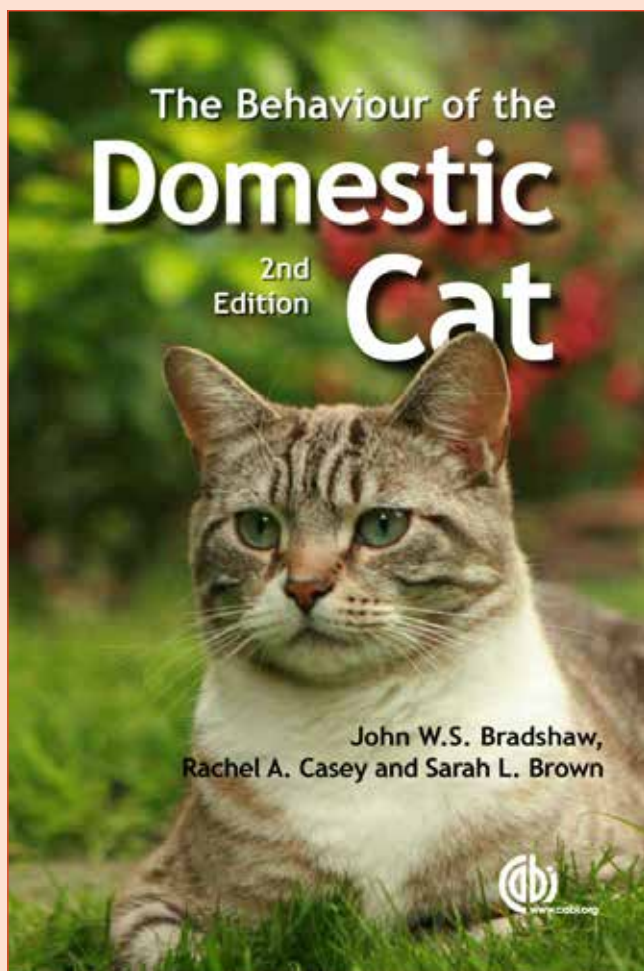
Feline Behaviour and Welfare

Andrew F Fraser, formerly Memorial University of Newfoundland, Canada

Providing a veterinary perspective as well as an ethological one, this book looks at the feline genus as a whole. The focus is on identifying normal behaviour from the cat's perspective, with a welfare theme running throughout as exhibitions of normal behaviour provide evidence of good welfare, and abnormal behaviour can be an indicator of poor welfare.

August 2012 / 216 pages / PB / 9781845939274
£37.50 / €50 / US\$72.50

August 2012 / 216 pages / HB / 9781845939267
£75 / €100 / US\$145



The Behaviour of the Domestic Cat

2nd Edition

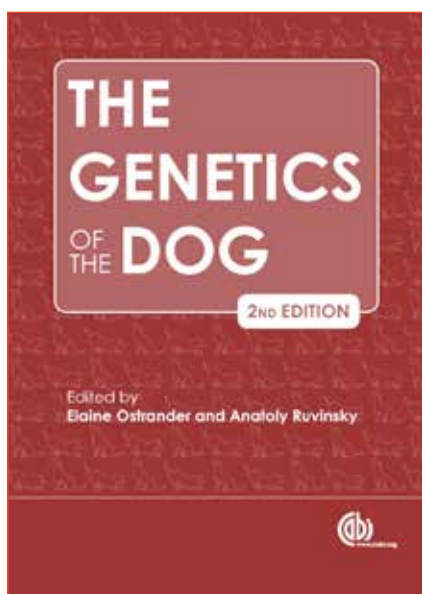
John W S Bradshaw, University of Bristol, UK, **Rachel A Casey**, University of Bristol, UK and **Sarah L Brown**, University of Southampton, UK

The behaviour of domesticated animals is a subject of great importance to students of animal behaviour and veterinary medicine, as well as interested pet owners.

This book presents an engaging overview of the behaviour of the domestic cat, adopting both a mechanistic and functional approach. Physiological, developmental and psychological aspects are addressed, including domestication, the development of the senses, learning, communication and feeding behaviour. The authors build on these themes to discuss social behaviour, hunting and predation, cat-human interactions and welfare.

Fully updated throughout, this new edition also includes two new chapters on behavioural disorders due to pathologies and from misdirected natural behaviour. It is an essential source of cat behaviour information for students, ethologists, veterinarians and pet owners.

November 2012 / 264 pages / PB / 9781845939922
£35 / €45 / US\$70

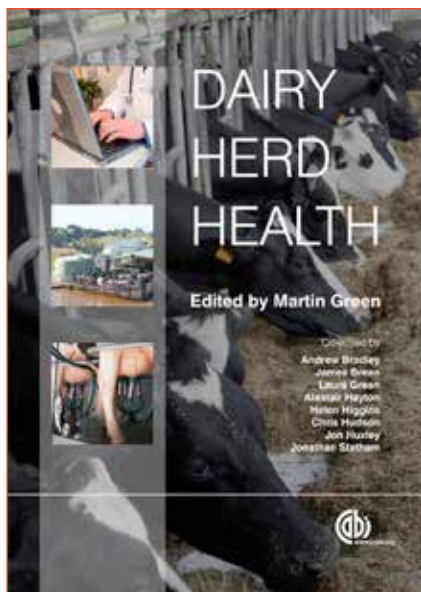


The Genetics of the Dog, 2nd Edition

Elaine A Ostrander, National Human Genome Research Institute (NHGRI), USA and **Anatoly Ruvinsky**, University of New England, Australia

Recognizing the significant advances made in the field of animal genetics in the ten years since the first edition, this new edition of the successful 2001 book provides a comprehensive update as well as new material on topics such as genetic diversity of dog breeds, canine genomics, olfactory genetics and cancer genetics.

March 2012 / 536 pages / HB / 9781845939403 £115 / €150 / US\$220



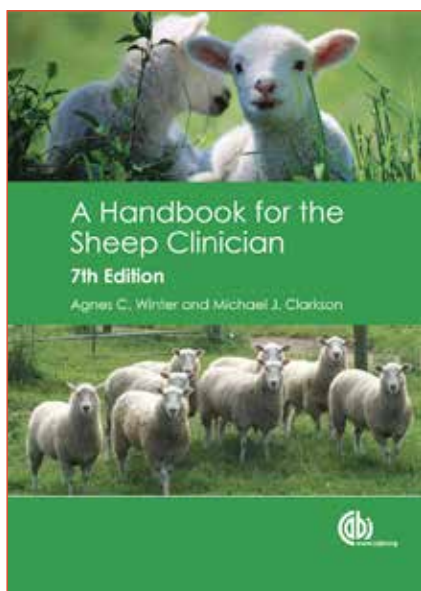
Dairy Herd Health

Edited by **Martin Green**, University of Nottingham, UK

Dairy herd health is an important and universal topic in large animal veterinary practice and farming. This book focuses on diseases within herds, herd husbandry practices, youngstock management and environmental issues. Major diseases and conditions are covered, including mastitis, lameness, nutrition, metabolic and common infectious diseases from a herd health perspective.

November 2012 / 328 pages / HB / 9781845939977

£75 / €100 / US\$145



A Handbook for the Sheep Clinician

7th Edition

Agnes Winter and **Michael Clarkson**, University of Liverpool, UK

An established favourite with veterinary and agricultural students and a valuable addition to the library of any veterinarian or sheep farmer, this handbook has an emphasis on diagnosis and treatment combined with short, easily digestible chapters and step-by-step diagrams that makes it an essential practical guide to recognising, treating and preventing disease.

February 2012 / 202 pages / PB / 9781845939748

£35 / €45 / US\$70

February 2012 / 202 pages / HB / 9781845939731

£75 / €100 / US\$145



Ticks and Tick-borne Diseases Geographical Distribution and Control Strategies in the Euro-Asia Region

Mo Salman, Colorado State University, USA, and **Jordi Tarrés-Call**, European Food Safety Agency, Italy

This book is an expansion of the European Food Safety Authority report on the subject, and details the significance of tick-borne diseases, identification of tick species, emerging tick-borne infections, factors influencing the spread and distribution of ticks and surveillance and control measures.

December 2012 / 320 pages / HB / 9781845938536
£95 / €125 / US\$180

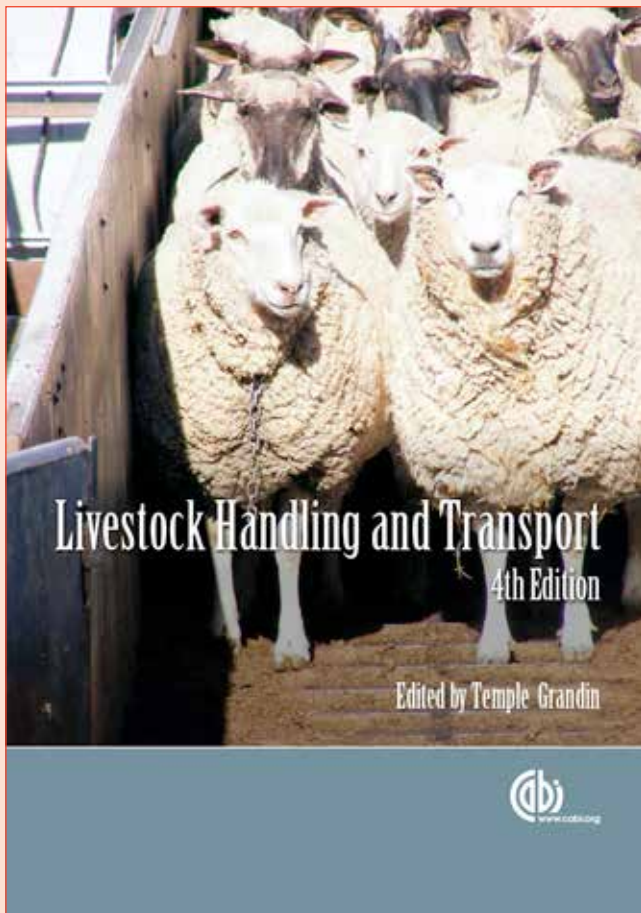


Camel Meat and Meat Products

Isam T Kadim, Sultan Qaboos University, Oman, **Osman Mahgoub**, Sultan Qaboos University, Oman, **Bernard Faye**, FAO Consultant, Camel and Range Research Centre, Saudi Arabia and **Mustafa Farouk**, AgResearch Limited, New Zealand

This book reviews up-to-date literature on camel meat and meat products, carcass and meat quality characteristics, muscle structure, post-mortem analysis and the nutritive value to humans. A comparatively small component of global meat consumption, camel meat has the potential to undergo an explosion of production worldwide.

November 2012 / 258 pages / HB / 9781780641010
£85 / €110 / US\$160



Livestock Handling and Transport, 4th Edition

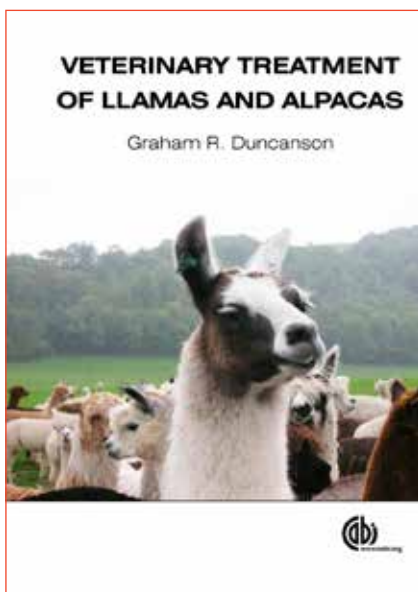
Edited by **Temple Grandin**, Colorado State University, USA

Edited by world-renowned animal scientist Dr. Temple Grandin, this practical book integrates scientific research and industry literature on cattle, pigs, poultry, sheep, goats, deer, and horses, in both the developed and developing world, to provide a practical guide to humane handling and minimizing animal stress. Reviewing the latest research on transport systems, restraint methods and facilities for farms and slaughterhouses, this fully updated fourth edition of Livestock Handling and Transport includes new coverage of animal handling in South America, and reviews extensive new research on pig transportation in North America.

1. A Whole Systems Approach to the Evaluation of Handling and Transport of Cattle, Pigs, Poultry, Sheep, and Other Livestock
2. General Principles of Stress and Well-Being
3. Causes of Poor Welfare and Assessment of Welfare during Handling and Transport
4. Behavioural Principles of Handling Cattle and Other Grazing Animals under Extensive Conditions
5. Low Stress Restraint, Handling, and Weaning of Cattle
6. Handling Cattle Raised In Close Association with People
7. Handling Races, Corrals, and Restraint of Extensively Raised Cattle
8. Dairy Cattle Behaviour, Automation and Well-Being
9. Factors That Affect the Welfare of Cattle, Pigs, and Sheep during Transport
10. Research on Transportation and Handling of Cattle and Pigs in South America
11. Behavioural Principles of Sheep Handling
12. Design of Sheep Yards and Shearing Shed
13. Sheep Transport
14. Dogs for Guarding and Herding Livestock
15. Behavioural Principles of Pig Handling
16. Pig Transport
17. Transportation of Pigs by Trucks in North America
18. Handling and Transport of Horses
19. Deer Handling and Transport
20. Poultry Handling and Transport
21. Stress Physiology of Animals during Transport
22. Handling and Welfare of Livestock in Slaughter Plants
23. Biosecurity for Animal Health and Safety

June 2014 / c.472 pages / HB / 9781780643212

£95 / €125 / US\$180



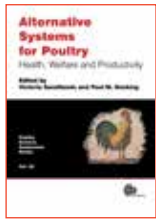
Veterinary Treatment of Llamas and Alpacas

Graham R Duncanson, Equine and Farm Animal Practitioner, Westover Veterinary Centre, UK

This book provides practical everyday veterinary advice on common conditions and surgical procedures. Basic husbandry, nutrition, examination, vaccines, analgesia, anaesthesia, dermatology and poisons are covered, together with medicine and surgery options arranged by body system. Zoonotic diseases are treated with particular interest as alpacas are a common petting farm animal.

July 2012 / 272 pages / HB / 9781780640068

£75 / €100 / US\$145



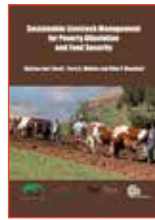
Alternative Systems for Poultry Health, Welfare and Productivity

Poultry Science Symposium Series, No. 30

Edited by **Victoria Sandilands**, Avian Science Research Centre, SAC, UK, and **Paul M. Hocking**, The Roslin Institute and Royal (Dick) School of Veterinary Studies, Midlothian, UK

This book compares and contrasts alternative housing with conventional and traditional systems for commercial poultry (laying hens, meat chickens, turkeys, waterfowl and gamebirds) with regards to welfare, disease, health, nutrition, sustainability and genotype-environment interaction.

April 2012 / 376 pages / HB / 9781845938246
£85 / €110 / US\$160



Sustainable Livestock Management For Poverty Alleviation and Food Security

Katrien van't Hooft, ETC Foundation, The Netherlands, **Terry Wollen**, Livestock Advocacy, Heifer International, USA and **Dilip P Bhandari**, Heifer International, USA

Good animal husbandry practices and animal health are vital for people living in poorer countries. This practical learning manual is a realistic guide for those who are responsible for training farmers in poor countries, taking into account traditional farming systems, existing inputs and resources, sustainable farming initiatives and advising on the right approaches to training.

April 2012 / 208 pages / HB / 9781845938277
£75 / €100 / US\$145



Dogs, Zoonoses and Public Health 2nd Edition

Edited by **Calum N L Macpherson**, Windward Islands Research and Education, Grenada, West Indies, **Francois-Xavier Meslin**, World Health Organization, Geneva, Switzerland and **Alexander I Wandeler**, OIE Reference

Laboratory for Rabies, WHO Collaborating Centre, Ontario, Canada

This practical textbook provides essential information and easy to follow instructions for performing everyday surgeries. Common procedures are detailed as well as instrument preparation and use, theatre preparation, tissue handling, antibiotics, sutures and nutritional support, with a best practice approach.

December 2012 / 288 pages / HB / 9781845938352
£95 / €125 / US\$180



Animal Science Reviews 2012

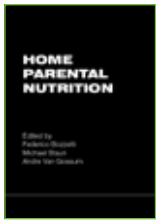
Edited by **David Hemming**, CABI, UK

Animal Science Reviews 2012 provides scientists and students in animal science with timely analysis on key topics in current research. Originally published online in CAB Reviews, this volume makes available in printed form the reviews in animal science published during 2012.

March 2013 / 256 pages / HB / 9781780643021
£95 / €125 / US\$180



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www.cabi.org/publishing-products/animal-sciences



**Home Parenteral Nutrition
2nd Edition**

Edited by **Federico Bozzetti**, Hospital of Prato, Italy, **Michael Staun**, Rigshospitalet, Denmark and **Andre Van Gossum**

Home parenteral nutrition (HPN) is the intravenous administration of nutrients carried out in the patient's home. This book analyses current practices in HPN, with a view to inform best practice, covering epidemiology of HPN in regions including the UK and Europe, USA and Australia, its role in the treatment of clinical conditions including gastrointestinal disorders and cancer, ethical and legal aspects and patient quality of life.

August 2014 / c.336 pages / HB / 9781780643113
£115 / €150 / US\$220



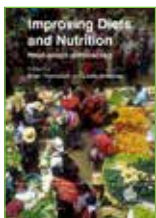
Natural Environments and Human Health

Alan W Ewert, Indiana University, USA, Denise Mitten, Prescott College, USA, Jill Overholt, Warren Wilson College, USA

The role natural environments play in human health and wellbeing is attracting increasing attention. There is growing medical evidence

that access to the natural environment can prevent disease, aid recovery, tackle obesity and improve mental health. This book examines the history of natural environments being used for stress-reduction, enjoyment, aesthetics and catharsis, and traces the development of the connection between humans and the environment, and how they impact our personal and collective health.

March 2014 / c.240 pages / HB / 9781845939199
£75 / €100 / US\$145



**Improving Diets and Nutrition
Food-based Approaches**

Co-published with The Food and Agriculture Organization of the United Nations

Edited by **Brian Thompson** and **Leslie Amoroso**, FAO, Italy

Nutrition-sensitive, food-based approaches towards hunger and malnutrition are effective, sustainable and long-term solutions. This book discusses the policy, strategic, methodological, technical and programmatic issues associated with such approaches. It present best practices for the design, targeting, implementation and evaluation of specific interventions, and improved methodologies for evaluating their efficacy and cost-effectiveness. This book also provides practical lessons for advancing nutrition-sensitive, food-based approaches at policy and programme level.

February 2014 / c.408 pages / HB / 9781780642994
£95 / €125 / US\$180



Climate Change and Global Health

Edited by **Colin D Butler**, University of Canberra, Australia

There is increasing understanding, globally, that climate change will have profound and mostly harmful effects on human health. This authoritative book brings together international experts to describe both direct (such as heat waves) and indirect (such as vector-borne disease incidence) impacts of climate change, set in a broad, international, economic, political and environmental context. This unique book also expands on these issues to address a third category of potential longer-term impacts on global health: famine, population dislocation, and conflict. This lively yet scholarly resource explores these issues fully, linking them to health in urban and rural settings in developed and developing countries. The book finishes with a practical discussion of action that health professionals can yet take.

August 2014 / c.304 pages / HB / 9781780642659
£85 / €110 / US\$160



**Dengue and Dengue Hemorrhagic Fever
2nd Edition**

Edited by **Duane J Gubler**, **Eng Eong Ooi**, **Subhash Vasudevan**, all Duke-NUS Graduate Medical School, Singapore and **Jeremy Farrar**, Oxford University Clinical Research Unit, Vietnam

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.

April 2014 / c.608 pages / HB / 9781845939649
£135 / €175 / US\$255



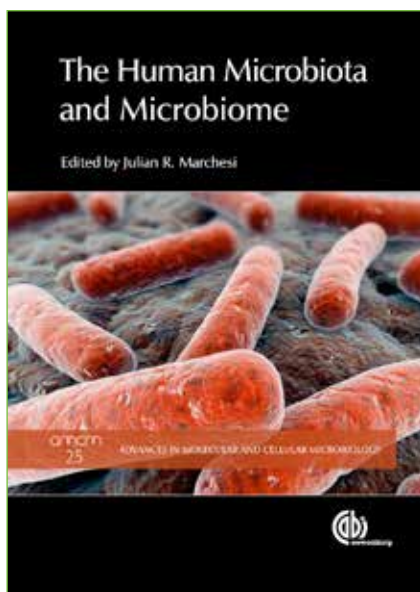
International Trade and Food Security

The Future of Indian Agriculture

Edited by **Floor Brouwer**, LEI – Wageningen UR, Netherlands and **Pramod K Joshi**, IFPRI, South Asia

The dynamics in the agrifood sector are explored in the context of the overall economy, taking into account agricultural and trade policies and their impact on national and global markets. Effects for income distribution in rural and urban areas are presented, as well as the future potential for international trade. The book also includes recent work on supply and demand projections for food grains and high-valued agrifood commodities in India.

August 2014 / c.275 pages / HB / 9781780642826
£75 / €100 / US\$145



The Human Microbiota and Microbiome

Advances in Molecular and Cellular Microbiology Series

Edited by **Julian R Marchesi**, Cardiff University, UK

Thousands of different microbial species colonize the human body, and are essential for our survival. This book presents a review of the current understanding of human microbiomes, the functions that they bring to the host, how we can model them, their role in health and disease and the methods used to explore them. Current research into areas such as the long-term effect of antibiotics makes this a subject of considerable interest. This title is essential reading for researchers and students of microbiology.

April 2014 / c.256 pages / HB / 9781780640495

£85 / €110 / \$160



Bacterial Pili

Structure, Synthesis and Role in Disease

Advances in Molecular and Cellular Microbiology Series

Edited by **Michele A Barocchi** and **John L Telford**

Bacterial pili play important roles as environmental sensors, in host colonization and in biofilm formation, enabling bacteria to interact with the environment, with surfaces and with other bacteria and host cells. Most bacteria, both Gram positive and Gram negative, and almost all bacterial pathogens, are piliated. This book discusses the synthesis, structure, evolution, function and role in pathogenesis of these complex structures, and their basis for vaccine development and therapeutics for Streptococcus pathogens.

January 2014 / c.224 pages / HB / 9781780642550
£85 / €110 / \$160



Microbial Metabolomics

Advances in Molecular and Cellular Microbiology Series

Silas Villas-Böas and **Katya Ruggiero**,
The University of Auckland, New Zealand

Focusing on analysing different small molecules produced or modified by living cells in a high throughput fashion, metabolomics plays an essential role in functional genomics and systems biology studies. Starting with a general introduction to the field, this research-level book addresses the unique challenges associated with microbial metabolomics, such as low biomass concentration and distinction between intra- and extracellular compounds, covering the latest developments in microbial metabolomics before discussing data generation and analysis and applications of quantitative metabolomics.

May 2014 / c.304 pages / HB / 9781845939427
£85 / €110 / \$160



Meningitis

Cellular and Molecular Basis

Advances in Molecular and Cellular Microbiology Series, No. 26

Edited by **Myron Christodoulides**, University of Southampton, UK

Examining meningitis mainly from a bacterial perspective, but also including an overview of viral, fungal and chronic meningitis, this book describes the anatomy of the meninges and clinical signs and symptoms of this disease. Individual organisms that cause meningitis worldwide are dealt with in specific chapters, describing in detail how these pathogens interact with the human host at both a molecular and cellular level. The book provides a thorough understanding of bacterial virulence factors, adhesion and invasion mechanisms, the nature of known host cell receptors and the host cell response.

August 2013 / 280 pages / HB / 9781780641621
£85 / €110 / US\$160



Tuberculosis

Laboratory Diagnosis and Treatment Strategies

Advances in Molecular and Cellular Microbiology Series, No. 21

Edited by **Timothy D McHugh**, University College London, UK

Tuberculosis is a global health threat and this book features contributions from a range of experts that captures the latest developments in the advent of bacteriological, immunological and molecular tools for diagnosis and the development of new drugs.

February 2013 / 288 pages / HB / 9781845938079
£95 / €125 / US\$180



Bacteriophages in Health and Disease

Advances in Molecular and Cellular Microbiology Series, No. 24

Paul Hyman, Ashland University, USA and Stephen T Abedon, The Ohio State University, USA

This book covers the many facets of phage-bacterial-human interaction in three sections: the role and impact of phages on natural bacterial communities, the potential to develop phage-based therapeutics and other aspects in which phages can be used to combat disease, including bacterial detection, bacterial epidemiology, the tracing of fecal contamination of water and decontamination of foods.

September 2012 / 296 pages / HB / 9781845939847
£85 / €110 / US\$160



Antimicrobial Drug Discovery Emerging Strategies

Advances in Molecular and Cellular Microbiology Series, No. 22

George Tegos, Wellman Center for Photomedicine, Massachusetts General Hospital, USA and Eleftherios Mylonakis, Division of Infectious Diseases, Massachusetts General Hospital, USA

This book documents the latest research, covering current and promising activities in four key areas: computational chemistry and chemoinformatics, High Throughput Screening (HTS), non-vertebrate model hosts and light and nano-based technologies.

August 2012 / 376 pages / HB / 9781845939434
£115 / €150 / US\$220



Communicable Diseases, 4th Edition A Global Perspective

Modular Texts Series



Roger Webber, formerly London School of Hygiene and Tropical Medicine, UK

Fully updated throughout, this fourth edition of *Communicable Disease Epidemiology and Control*, retitled *Communicable Diseases* to reflect the breadth of its coverage, includes new chapters on integrated disease management and the increased risks of disease among pregnant women. An essential resource in this fast-changing area.

July 2012 / 344 pages / PB / 9781845939380
£39.95 / €55 / US\$75

July 2012 / 344 pages / HB / 9781845939397
£85 / €110 / US\$160



Metabolomics and Systems Biology in Human Health and Medicine

Edited by Oliver A H Jones, RMIT University, Australia

The metabolomics and systems biology approach to research can be applied to many disciplines. This book provides a solid introduction to medical metabolomics and systems biology, and demonstrates how they have been applied to studies in medicine and human health, including nutrition and pathogenic microorganisms. Following core themes of diagnosis, pathology and aetiology of disease, this book provides a reference for health care professionals interested in how to use metabolomics for medical research.

August 2014 / c.256 pages / HB / 9781780642000
£85 / €110 / \$160



Geographic Health Data Fundamental Techniques for Analysis

Edited by Francis P Boscoe, New York State Cancer Registry, USA

Focussing on proven techniques for most real-world data sets, this book presents an overview of the analysis of health data

involving a geographic component, in a way that is accessible to any health scientist or student comfortable with large data sets and basic statistics, but not necessarily with any specialized training in geographic information systems (GIS). Providing clear, straightforward explanations with worldwide examples and solutions, the book describes applications of GIS in disaster response.

September 2013 / 232 pages / HB / 9781780640891
£85 / €110 / US\$160

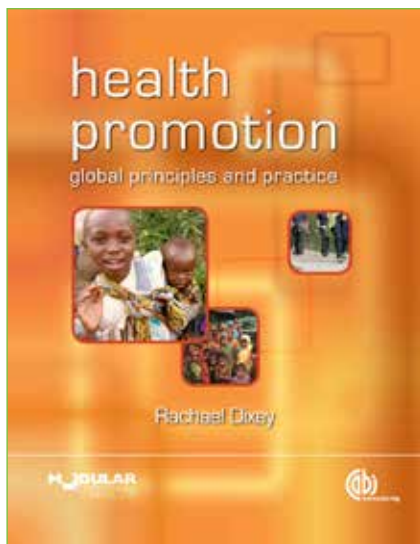


Disaster Management Medical Preparedness, Response and Homeland Security

Rajesh Arora, Defence Research and Development Organization, Delhi, India and Preeti Arora, Guru Gobind Singh Indraprastha University, India

Disaster management is an increasingly important subject, as effective management of both natural and manmade disasters is essential to save lives and minimize casualties. This book discusses the best practice for vital elements of disaster medicine in both developed and developing countries, including planning and preparedness of hospitals, emergency medical services, communication and IT tools for medical disaster response and psychosocial issues. It also covers the use of state-of-the-art training tools, with a full section on post-disaster relief, rehabilitation and recovery.

September 2013 / 680 pages / HB / 9781845939298
£115 / €150 / US\$220



Health Promotion
Global Principles and Practice
Modular Texts Series

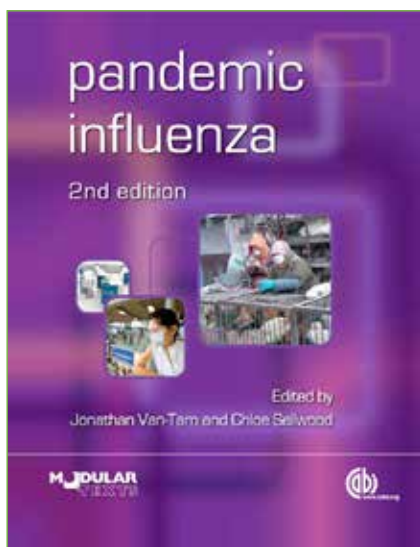


Rachael Dixey, Leeds Metropolitan University, UK

This textbook focuses on the themes central to contemporary health promotion practice on a global scale. Social determinants, equality and equity, policy and health, working in partnerships, sustainability, evaluation and evidence-based practice are detailed, and the critical application of health promotion to practice is outlined throughout the book.

November 2012 / 240 pages / PB / 9781845939724

£37.50 / €50 / US\$72.50



Pandemic Influenza
2nd Edition
Modular Texts Series



Edited by **Jonathan Van-Tam**, City Hospital, Nottingham, UK and **Chloe Sellwood**, NHS, London

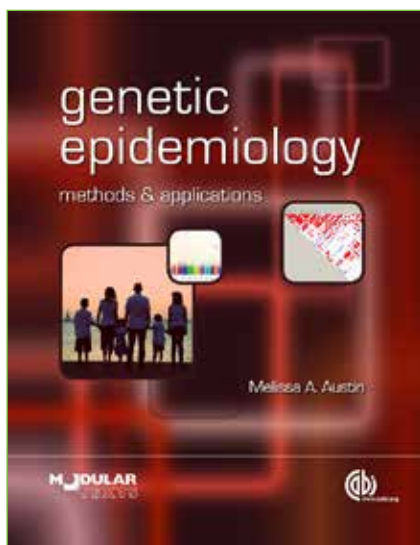
Comprehensively updated to incorporate major lessons from the 2009/10 pandemic, this accessible new edition includes new contributions from global experts on surveillance, International Health Regulations, clinical management and local health service responses, illustrated with vibrant international case studies.

December 2012 / 264 pages / PB / 9781845938574

£39.95 / €55 / US\$75

December 2012 / 264 pages / HB / 9781845938567

£85 / €110 / US\$160



Genetic Epidemiology
Methods and Applications
Modular Texts Series

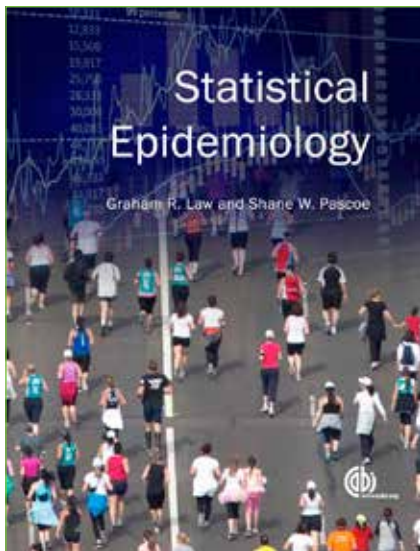


Melissa A Austin, University of Washington, USA

Following an overview of the field, this textbook reviews key genetic concepts, provides an update on relevant genomic technology, and describes methods for assessing the magnitude of genetic influences on diseases and risk factors. This textbook is an essential new resource for graduate students in epidemiology and public health genetics.

June 2013 / 216 pages / PB / 9781780641812

£39.95 / €55 / US\$75



**Statistical Epidemiology
Methods and Applications**



Graham Law, University of Leeds, UK and **Shane Pascoe**, University of New South Wales, Australia

This textbook introduces students to statistical epidemiology methods in a carefully structured and accessible format. Drawing on the authors' extensive teaching experience, with clearly defined learning outcomes, the suggested chapter orders can be tailored to the needs of students at both undergraduate and graduate level from a range of academic backgrounds.

June 2013 / 232 pages / PB / 9781845937966

£39.95 / €55 / US\$75

June 2013 / 232 pages / HB / 9781845938161

£85 / €110 / US\$160

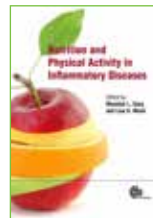


**Biological and Environmental
Control of Disease Vectors**

Edited by **Mary Cameron** and **Lena Lorenz**, London School of Hygiene and Tropical Medicine, UK

Covering the theory and practice of non-insecticidal control of insect vectors of human disease, this book provides an overview of methods including the use of botanical biocides and insect-derived semiochemicals, with an overall focus on integrated vector management strategies.

May 2013 / 224 pages / HB / 9781845939861
£85 / €110 / US\$160

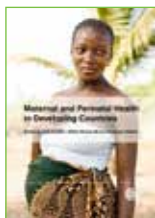


**Nutrition and Physical Activity
in Inflammatory Diseases**

Edited by **Manohar L Garg**, University of Newcastle, Australia and **Lisa G Wood**, University of Newcastle, Australia

Certain nutrients and physical activity can significantly alter immune function and inflammation. Targeted interventions may be an effective and inexpensive means to improve the inflammation and immune dysfunction associated with chronic diseases. This book strengthens our understanding of how nutrients and physical activity impact inflammatory diseases.

December 2012 / 392 pages / HB / 9781845939106
£115 / €150 / US\$220



**Maternal and Perinatal Health
in Developing Countries**

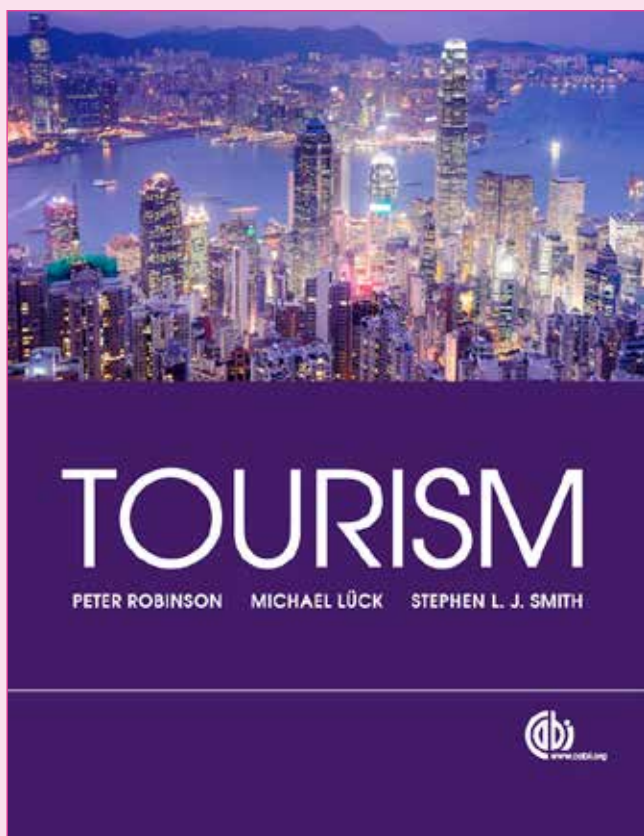
Edited by **Julia Hussein**, University of Aberdeen, UK, **Affette M McCaw-Binns**, University of the West Indies at Mona, Jamaica and **Roger Webber**, formerly London School of Hygiene and Tropical Medicine, UK

Taking a practical policy approach, this book covers the background and concepts underlying efforts to improve maternal and perinatal mortality, the current global situation and problems that prevent progress. It includes case studies and examples of successful strategies, recommends good practices, and provides a critical analysis of knowledge gaps to inform areas for future research.

June 2012 / 256 pages / HB / 9781845937454
£85 / €110 / US\$160



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Tourism



Peter Robinson, University of Wolverhampton, UK,
Michael Lück, AUT University Auckland, New Zealand,
Stephen L J Smith, University of Waterloo, Canada

Introducing tourism as an academic subject and guiding students through the early years of their tourism studies. *Tourism* begins by addressing tourism perspectives – defining tourism and setting it in a real-world business and economic context, before considering tourism people with a two-pronged approach – those employed in the tourism sector and travellers, visitors and holiday-makers who consume tourism products. Thereafter the operational elements of tourism are described in-depth: the infrastructure, facilities, legislation, financing, destination management and destination strategy that support tourism operations. Tourism development is the theme of the next section, introducing the concepts of planning, the role of organisations, tourism impacts, rural tourism, resources and sustainability. The book concludes with a discussion of tourism futures – tourism research, change, postmodernism and globalisation, and describes emerging tourism trends such as space tourism, virtual reality and the slow movement. Authored by established experts from North America, Europe and Australasia *Tourism* provides a truly international coverage of the subject, applicable to students in all geographic regions. Chapters have been laid out to guide students through the subject in a logical way and pedagogic features such as learning objectives, chapter introductions, chapter reviews, review questions and question-and-answer sections help to reinforce important concepts and aid learning. While informative features

including case studies, figures, industry comments, career profiles and destination profiles provide a stimulating and enlightening insight into the current state of the tourism industry and those who work within it.

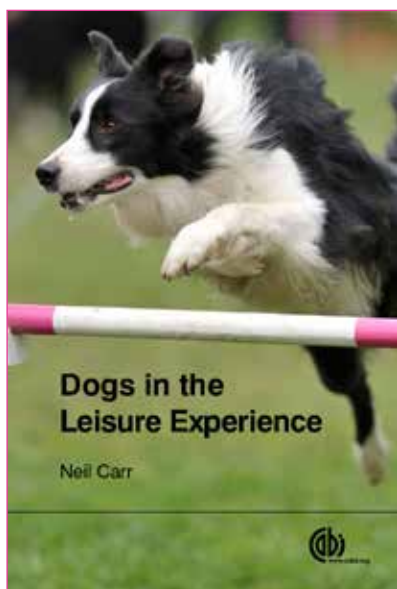
Supporting supplementary material for instructors and students can be found at www.cabi.org/openresources/39762

May 2013 / 544 pages / PB / 9781845939762

£45 / €60 / US\$85

May 2013 / 544 pages / HB / 9781780642970

£99.95 / €130 / US\$190



Dogs in the Leisure Experience

Neil Carr, University of Otago, New Zealand

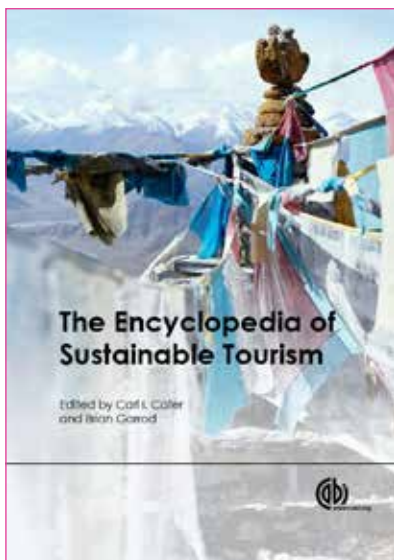
This book explores the social and cultural constructions and debates of what are dogs and what is leisure. It looks at how working dogs play a significant role in leisure experiences such as ensuring the safety of air transport, and considers the differing roles and changing acceptance of dogs' involvement in sport. Within the setting of the animal welfare and sentience debates, it examines the leisure needs of dogs and their owners. Providing an original contribution to our understanding of dogs as both participants and objects in the leisure experience, this book is a useful resource for researchers in leisure, hospitality and tourism.

September 2014 / c.176 pages / PB / 9781780643199

£35 / €45 / US\$70

September 2014 / c.176 pages / HB / 9781780643182

£65 / €85 / US\$125



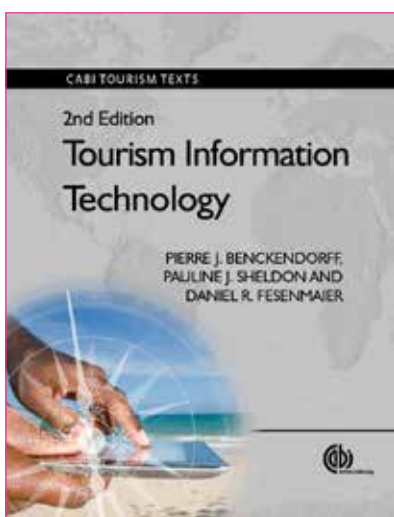
The Encyclopedia of Sustainable Tourism

Carl I Cater and Brian Garrod, University of Aberystwyth, UK

Tourism is the world's fastest growing industry, and impacts globally upon ecology, economies, peoples, cultures and the built environment. Development, therefore, must be sustainable and sympathetic in order to preserve the environment and culture it exploits. Despite sustainable tourism being an area of considerable recent interest, there has been no synthesis of the diverse considerations of sustainable tourism, and the language and terms particular to this subject. An important resource for researchers of tourism, this reference work defines and explains terms associated with considering and preserving the environment, host peoples, communities, cultures, customs, lifestyles and social and economic systems.

August 2014 / c.700 pages / HB / 9781780641430

£125 / €165 / US\$240



Tourism Information Technology 2nd Edition

CABI Tourism Texts

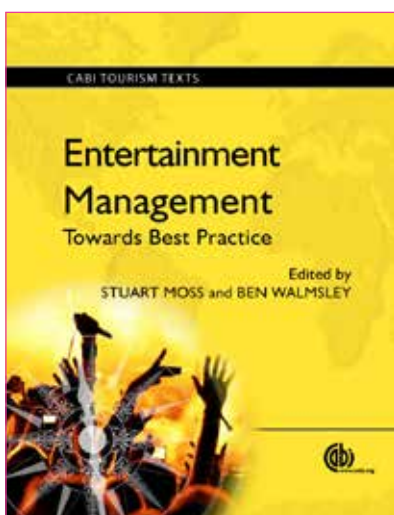


Pierre J Benckendorff, The University of Queensland, Australia and
Pauline J Sheldon, University of Hawaii, USA

This second edition of *Tourism Information Technology* continues to cover the complexities of how information technology is being used in the tourism industry. Fully updated, it will cover IT applications in all sectors of the industry including airlines, travel intermediaries, accommodation, foodservice, destinations, attractions, events and entertainment. Organised around the stages of the visitor journey it will cover how tourists are using technologies to support decision making before their trip, during their travels and upon their return. This revised edition will also include the various social media that are impacting the travel industry and consider the increasing number of networks in tourism.

September 2014 / c.192 pages / PB / 9781780641850

£35 / €45 / US\$70



Entertainment Management Towards Best Practice

CABI Tourism Texts



Edited by Stuart Moss and Ben Walmsley, Leeds Metropolitan University, UK

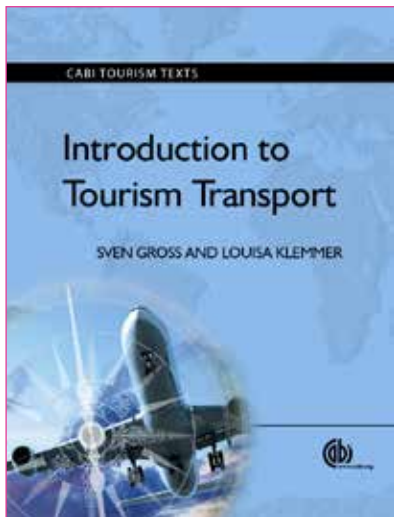
Following on from *The Entertainment Industry: An Introduction*, *Entertainment Management* takes the next step in the development of entertainment as a practice and as an academic subject. Aimed at higher level undergraduates, the book discusses best practices in the entertainment industry, profiling a different discipline per chapter, each one a branch of entertainment that offers employment opportunities within the sector. Fields include marketing, P.R., the media, live events, artist management, arts and culture, consultancy and visitor attractions. The book aims to reflect the knowledge students will need for real world of entertainment management such as technical standards, business management, people management, economic aspects and legal issues. Each chapter discusses the background of the discipline, best practice management principles, issues in the wider environment, case studies of real organisations and future trends.

July 2014 / c.256 pages / PB / 9781780640235

£39.95 / €55 / US\$75

June 2014 / 256 pages / HB / 9781780640228

£85 / €110 / US\$160



Introduction to Tourism Transport

CABI Tourism Texts



Sven Gross and **Louisa Klemmer**, Hochschule Harz – University of Applied Sciences, Germany

Transport is an inherent part of tourism; whether as a functional means of transportation, such as between origin and destination or within the destination; or as a key element of the holiday experience itself, as in cruising or traveling along scenic or historic routes. This book provides the necessary background information to gain a comprehensive understanding of transportation markets, with each of the three modes of transportation – air, ground and marine – explored in detail. Each section includes definitions, the historical development of the market and international institutional frameworks, with case studies, learning objectives and study questions incorporated to facilitate an active learning process.

July 2014 / c.192 pages / PB / 9781780642147

£35 / €45 / US\$70



Events as a Strategic Marketing Tool

CABI Tourism Texts

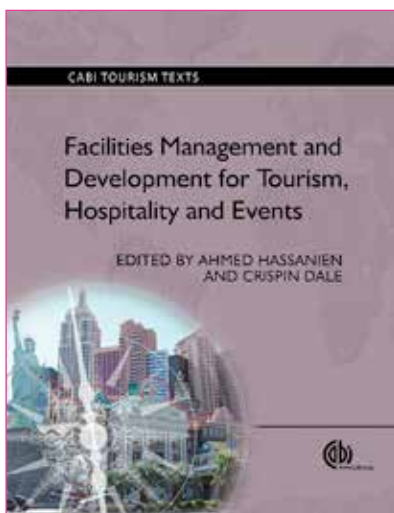


Ronald van Olderen and **Dorothe Gerritsen**, NHTV Breda University of Applied Science, Netherlands

Experiences, encounters and events have come to play an ever-growing role in marketing. *Events as a Strategic Marketing Tool* describes how events can be used as a strategic tool in marketing practices. The introductory chapters address the development of the experience economy, events, and event marketing. Subsequently, the book covers the various areas of marketing within which experiences play a role, such as branding, relationship marketing and city marketing. The final chapters deal with the step from strategy to concept, and discuss event design and touchpoints. The book is concluded with a chapter on effect measurement and evaluation.

June 2014 / c.256 pages / PB / 9781780642611

£39.95 / €55 / US\$75



Facilities Management and Development for Tourism, Hospitality and Events

CABI Tourism Texts



Edited by **Ahmed Hassanien**, Edinburgh Napier University, UK and **Crispin Dale**, University of Wolverhampton, UK

Covering important contemporary subjects from both theoretical and applied perspectives, this book considers the planning, development and management of facilities operations from several key perspectives, drawing upon the expertise of complementary experts in the design, management and development of THE facilities.

June 2013 / 384 pages / PB / 9781780640341

£39.95 / €55 / US\$75



Garden Centre Management

Ken Crafer

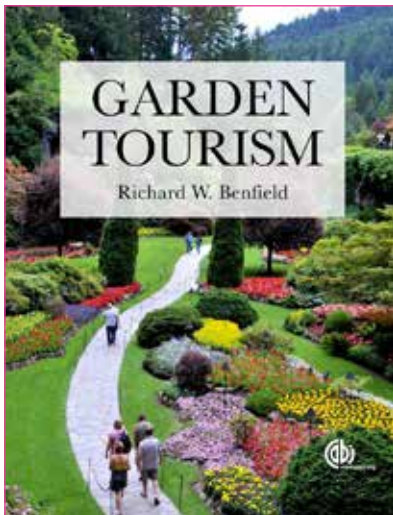
Garden centre management has professionalised in recent years as garden centres have become more highly developed retail operations. Many students of horticulture are expected to go into retail management and so the topic has increasingly appeared on the further education curriculum. This book is equally targeted at students, garden centre managers and professional courses in garden centre management. It provides a practical approach backed up by management theory. The text covers consumer behaviour, staff management, stock management, marketing and productivity.

July 2014 / c.200 pages / PB / 9781780643090

£37.50 / €55 / US\$72.50

July 2014 / c.200 pages / HB / 9781780643083

£75 / €100 / US\$145



Garden Tourism

Richard W Benfield, Central Connecticut State University, USA

Garden visitation has been a tourism motivator for many years and can now be enjoyed in many different forms. Private garden visiting, historical garden tourism, urban gardens, and a myriad of festivals, shows and events all allow the green-fingered enthusiast to appreciate the natural world. This book traces the history of garden visitation and examines tourist motivations to visit gardens. Useful for garden managers and tourism students as well as casual readers, it also examines management and marketing of gardens for tourism purposes, before concluding with a detailed look at the form and tourism-based role of gardens in the future.

May 2013 / 272 pages / PB / 9781780641959

£35 / €45 / US\$75



Tourism Crisis and Disaster Management in the Asia-Pacific

CABI Series in Tourism Management

Brent W Ritchie, University of Queensland, Australia and **Kom Campiranon**, Dhurakij Pundit University, Thailand

The Asia-Pacific area is one of the fastest growing tourism regions and a major driver of global tourism in general. Tourism industries in Asia Pacific have been challenged in recent years by a number of major crises and disasters including terrorism, outbreaks (e.g. SARS and Bird Flu), natural disasters (e.g. tsunamis, bushfires, flooding), and political crisis (e.g. protests and political instability). This book contributes to the understanding of crisis and disaster management generally, but with a specific focus on the Asia Pacific. With contributions by international scholars and practitioners, the book discusses both the theoretical and practical approaches toward successful crisis and disaster management.

August 2014 / c.216 pages / HB / 9781780643250
£75 / €100 / US\$145



Creating Experience Value in Tourism

Edited by **Nina Prebensen**, University of Tromsø, Norway, **Joseph Chen**, Indiana University, USA and **Muzaffer Uysal**, Virginia Tech, USA

As the field of tourism grows in maturity and scientific sophistication, it is important to fully understand the breadth and depth of vacation experience value. This book evaluates this experience, as it is created and co-created by the tourist engaging in the experience, for himself, other tourists and the tourism firm. Providing a framework to distinguish among key resources or antecedents of customer value, this book also considers consumer behaviour.

July 2014 / c.336 pages / HB / 9781780643489
£85 / €110 / US\$160



Ideological, Social and Cultural Aspects of Events

Edited by **Omar Moufakkir**, Group Sup de Co La Rochelle, France and **Tomas Pernecky**, Auckland University of Technology, New Zealand

There is an ever growing importance of events in modern society and until now existing literature on events has been dominated by the economic perspective. Social and Cultural Aspects of Events addresses the social and cultural side of events and explores the role they have in fostering change and community development. It examines the transformatory function of events in the context of development studies – as phenomena that can promote and facilitate human development, including social, societal and individual change. This book provides vital and timely exploration and encourages the study of more diverse themes within event management.

August 2014 / c.216 pages / HB / 9781780643526
£75 / €100 / US\$145



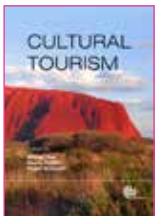
Nautical Tourism

Edited by **Tihomir Lukovic**, University of Dubrovnik, Croatia

Nautical tourism as an industry has been developing rapidly in scope and economic status and continues to do so. This book provides a timely analysis of nautical tourism in Europe, examining the provision and

expansion of nautical tourism in economies at different stages of development.

July 2013 / 256 pages / HB / 9781780642444
£75 / €100 / US\$145



Cultural Tourism

Edited by **Razaq Raj**, Leeds Metropolitan University, UK, **Kevin A Griffin**, Dublin Institute of Technology, Ireland and **Nigel D Morpeth**, Leeds Metropolitan University, UK

This book provides a broad discussion of cultural tourism as a concept and the way it is implemented in diverse regions around the

world. It addresses the notion of cultural tourism, what it means to tourism as an industry, and types of cultural tourism offered to tourists. Features international case studies on specific instances of cultural tourism.

March 2013 / 260 pages / HB / 9781845939236
£75 / €100 / US\$140



Tourism Enterprise

Developments, Management and Sustainability

David Leslie, formerly of Glasgow Caledonian University, UK

The environmental quality and popularity of any tourist destination is the outcome of sustained development, shaped by the socio-economic and physical dimensions of the local environment. Protecting the 'living landscape' requires recognizing, promoting and developing the links between economic, social and environmental objectives. This book therefore examines the tourism business in terms of 'greening' the local economy, people and environment, establishing the green agenda and investigating its application to the tourism sector.

August 2014 / c.188 pages / HB / 9781780643564
£75 / €100 / US\$145

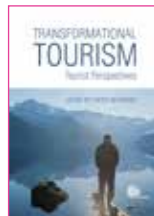


Research Themes for Events

Edited by **Rebecca Finkel**, Queen Margaret University, UK, **David McGillivray**, University of the West of Scotland, UK, **Gayle McPherson**, University of the West of Scotland, UK and **Peter Robinson**, University of Wolverhampton, UK

Events Management as a subject has been well documented from a practical angle, but this is the first book to cover events from a research perspective. Subjects on consumer behaviour, authenticity and new technologies are included, and the research angle is covered by addressing key concepts, theories and discussions centring on these subjects.

October 2013 / 184 pages / HB / 9781780642529
£65 / €85 / US\$125



Transformational Tourism Tourist Perspectives

Edited by **Yvette Reisinger**, Gulf University for Science and Technology, Kuwait

Transformational Tourism deals with the important issue of how travel and tourism can change human behaviour and have a positive impact on the world. The book focuses on human development in a world dominated by post-9/11 security and political challenges, economic and financial collapses, and environmental threats.

April 2013 / 256 pages / HB / 9781780642093
£75 / €100 / US\$140



Medical Tourism

John Connell, Professor of Human Geography, University of Sydney

Tourism has long been associated with improved health, resulting in a boom of spas, yoga and rejuvenation treatments. Medical Tourism looks at the background and rise of health tourism, new emerging facets of the sector, and examines how medical tourism benefits local health care providers, economies and the tourism industry as a whole.

April 2013 / 224 pages / PB / 9781780643694
£35 / €45 / US\$75

March 2011 / 224 pages / HB / 9781845936600
£65 / €85 / US\$125

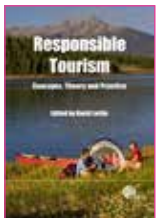


International Volunteer Tourism Integrating Travellers and Communities

Stephen Wearing, University of Technology, Sydney and **Nancy Gard McGehee**, Virginia Tech, USA

Concentrating on the experience of the volunteer tourist and the host community, this book builds on the view of volunteer tourism as a positive and sustainable form of tourism to examine a broader spectrum of behaviours and experiences and consider critically where the volunteer tourist experience both compliments and collides with host communities.

August 2013 / 184 pages / HB / 9781845936969
£65 / €85 / US\$125



Responsible Tourism Concepts, Theory and Practice

Edited by **David Leslie**, formerly of Glasgow Caledonian University, UK

This book discusses responsible tourism as a whole, including the politics, policy and planning behind it, and major sub-topics such as poverty reduction, the environment, transport, governance, wildlife tours and heritage.

September 2012 / 192 pages / HB / 9781845939878
£65 / €85 / US\$125



Frameworks for Tourism Research

Douglas G Pearce, Victoria University of Wellington, New Zealand

Frameworks are the foundation of good scholarship. They structure, organize and communicate research, underpin individual studies and shape the field of study as a whole. This book provides the first comprehensive and systematic review and critique of frameworks for tourism research.

May 2012 / 224 pages / HB / 9781845938987
£75 / €100 / US\$145



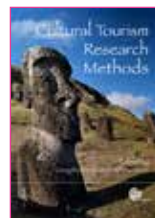
Managing Outdoor Recreation Case Studies in the National Parks

Robert E Manning and **Laura E Anderson**, University of Vermont, USA

The popularity of outdoor recreation and ecotourism continues to grow worldwide, but there is little systematic information on successful management practices in National Parks. This book presents the issue of how to manage outdoor recreation in ways that protect the integrity of park resources and the quality of the visitor experience.

August 2012 / 256 pages / PB / 9781780641874
£35 / €45 / US\$70

August 2012 / 256 pages / HB / 9781845939311
£75 / €100 / US\$145



Cultural Tourism Research Methods

Greg Richards, Tourism Research and Marketing, Barcelona, Spain and **Wil Munsters**, Zuyd University, Netherlands

Now available in paperback, *Cultural Tourism Research Methods* reviews a wide range of qualitative and quantitative research methods applied to the field of cultural tourism, including surveys, mystery tourist visits, visitor tracking, grand tour narratives, collages, researcher-created video, photo-based interviews, ethnographic and actor-network approaches.

November 2012 / 248 pages / PB / 9781780642291
£39.95 / €55 / US\$75

June 2010 / 256 pages / HB / 9781845935184
£65 / €85 / US\$125

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