

Medical and Veterinary Entomology

2nd Edition

by Dr D S Kettle, Department of Entomology,
University of Queensland, Australia

The first edition of this book published in 1984 established itself internationally as a standard text in medical and veterinary entomology. This new edition retains the same overall aims and structure but has been thoroughly revised to take account of new advances in the subject.

The main focus of the book is on the general biology of insects and the Acari (mites and ticks) of medical and veterinary importance, together with a brief description of their taxonomy and the treatment of diseases they cause.

The book is divided into three parts: The first provides a general introduction to the classification, structure and function of the relevant insects and Acari; the second covers in seventeen chapters, the main groups of insects and acarines of medical and veterinary importance from the Culicidae (mosquitoes) to the Ixodidae (hard ticks); part three then provides an overview of those diseases of which the pathogens are transmitted by insects or acarines. The book will continue to serve as a major reference text for students taking courses in zoology, tropical medicine, veterinary science, entomology and parasitology, as well as for professionals working in both pure and applied entomology.

Published October 1995 c.750 pages
Published in Hardback and Paperback
ISBN 0 85198 968 3 (HB) approx £75.00
ISBN 0 85198 969 1 (PB) approx £37.50

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The Scale Insect Family Coccidae: An Identification Manual to Genera

C J Hodgson, Department of Biological Sciences,
Wye College, University of London, UK

The soft-scales (Coccidae) are one of about 20 families of the scale insect super-family Coccoidea. The females are all sap-sucking and all 1100 known species are potential pests in agriculture, horticulture or forestry. This family is amongst the most poorly known although the third largest in the superfamily. This book discusses all known genera and redescribes and illustrates the adult females of the type species of about 160 soft scale genera. No previous revision has covered all world genera. On the basis of this study a new classification of the soft-scales is introduced based on both male and female characters and keys are provided to the identification of the type species (females) of each genus. An introductory chapter describes the basic structure and introduces the terminology. As the females of all Coccoidea are of potential economic importance, this book will be of value to any entomologist who needs to identify soft-scales either for quarantine or for research involving natural enemies for biological control.

Contents

Morphology and terminology

Introduction
Illustrations
General external structure
Host-induced differences
Appearance of unmounted material
Mounted material
Structure of dorsum
Marginal structures
Structure of venter
Instar identification
Other information

Classification

Short history of classification of the family
Coccidae
Introduction
Family Coccidae
Subfamily Cardiococcinae
Subfamily Ceroplastinae
Subfamily Cissococcinae
Subfamily Coccinae
Tribe Coccini
Tribe Paralecaniini

Tribe Pulvinariini
Tribe Saissetiini
Subfamily Cyphococcinae
Subfamily Eulecaniinae
Subfamilies Eriopeltinae and Filippiinae
Subfamily Myzolecaniinae
Subfamily Pseudopulvinariinae
Unplaced Genera

List of genera and type species

Keys to subfamilies, tribes and genera

Key to subfamilies and tribes
Key to genera in the Cardiococcinae
Key to genera in the Ceroplastinae
Key to genera in the Coccini
Key to genera in the Paralecaniini
Key to genera in the Pulvinariini
Key to genera in the Saissetiini
Key to genera in the Cyphococcinae
Key to genera in the Eulecaniinae
Key to genera in the Eriopeltinae + Filippiinae
Key to genera in the Myzolecaniinae

Descriptions of type species

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Insect Pests and Fresh Horticultural Products: Treatments and Responses

Edited by R E Paull, University of Hawaii, and
J W Armstrong, USDA Tropical Fruit and Vegetable
Research Laboratory, Hawaii, USA

Postharvest treatments are required to disinfest fruits, vegetables, nuts, flowers and ornamental plants of quarantined insects prior to export. These insect pests, such as various tephritid fruit flies, are of quarantine importance because either they are absent from the importing country or that country has a zero tolerance for all live insects. This book considers the various treatment technologies and strategies and the effect that these have on the insects and the produce. Treatments include the promotion of pest-free zones and natural resistance, and the use of fumigation, irradiation, insecticides, extremes of temperature, controlled or modified atmospheres, and combinations of these. Current research, directed at prolonging postharvest life of the commodity and maintaining its quality, is thoroughly assessed through detailed reviews of the literature. The book is a comprehensive work directed at academics and research workers in entomology and horticulture, as well as quarantine officers.

Contents

Foreword, *J M Lyons*

Introduction, *R E Paull, J W Armstrong*

Part I Quarantine Criteria

Part II Physiological and Biochemical Responses of Insects to Possible Disinfestation Procedures

Part III Product Physiological and Biochemical Response to Possible Disinfestation Procedures

Part IV Individual Product Treatments

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Burt, P. J. A., Colvin, J. & Smith, S. M. Remote sensing of rainfall by satellite as an aid to <i>Oedaleus senegalensis</i> (Orthoptera: Acrididae) control in the Sahel.....	455
Downham, M. C. A., McVeigh, L. J. & Moawad, G. M. Field investigation of an attracticide control technique using the sex pheromone of the Egyptian cotton leafworm, <i>Spodoptera littoralis</i> (Lepidoptera: Noctuidae).....	463
Eisemann, C. H. Orientation by gravid Australian sheep blowflies, <i>Lucilia cuprina</i> (Diptera: Calliphoridae), to fleece and synthetic chemical attractants in laboratory bioassays.....	473
Harvey, A. W. & Mallya, G. A. Predicting the severity of <i>Spodoptera exempta</i> (Lepidoptera: Noctuidae) outbreak seasons in Tanzania.....	479
Hattingh, V. & Tate, B. Effects of field-weathered residues of insect growth regulators on some Coccinellidae (Coleoptera) of economic importance as biocontrol agents.....	489
Langley, P. A. Evaluation of the chitin synthesis inhibitor triflumuron for controlling the tsetse <i>Glossina morsitans morsitans</i> (Diptera: Glossinidae).....	495
Leong, E. C. W. & Ho, S. H. Life cycle of <i>Liposcelis entomophila</i> (Psocoptera: Liposcelididae) and a culturing regime for liposcelids.....	501
Marris, G. C. & Edwards, J. P. The biology of the ectoparasitoid wasp <i>Eulophus pennicornis</i> (Hymenoptera: Eulophidae) on host larvae of the tomato moth, <i>Lacanobia oleracea</i> (Lepidoptera: Noctuidae).....	507
Mohan, S., Mohan, S. & Disney, R. H. L. A new species of scuttle fly (Diptera: Phoridae) that is a pest of oyster mushrooms (Agaricales: Pleurotaceae) in India.....	515
Muhamad, R. & Way, M. J. Relationships between feeding habits and fecundity of <i>Helopeltis theivora</i> (Hemiptera: Miridae) on cocoa.....	519
Omwega, C. O., Kimani, S. W., Overholt, W. A. & Ogol, C. K. P. O. Evidence of the establishment of <i>Cotesia flavipes</i> (Hymenoptera: Braconidae) in continental Africa.....	525
Pedata, P. A., Hunter, M. S., Godfray, H. C. J. & Viggiani, G. The population dynamics of the white peach scale and its parasitoids in a mulberry orchard in Campania, Italy.....	531
Smits, A., Coosemans, M., Van Bortel, W., Barutwanayo, M., Delacollette, Ch. Readjustment of the malaria vector control strategy in the Rusizi Valley, Burundi.....	541
Stevens, J. & Wall, R. The use of random amplified polymorphic DNA (RAPD) analysis for studies of genetic variation in populations of the blowfly <i>Lucilia sericata</i> (Diptera: Calliphoridae) in southern England.....	549
Williams, C. T. Effects of plant age, leaf age and virus yellows infection on the population dynamics of <i>Myzus persicae</i> (Homoptera: Aphididae) on sugarbeet in field plots.....	557
Book Reviews.....	569
Index of Authors (Volume 85).....	573

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