

An Account Of The Alienicolous Morphs Of The Aphid Patchiella Reaumuri Kaltenbach 1843 Homoptera Aphioidea

Aphids on the World's Herbaceous Plants and Shrubs, 2 Volume Set Vegetable Crop Science Plant Protection in Tropical Root and Tuber Crops Aphid Ecology An optimization approach Aphids on the World's Crops Applied Myrmecology Aphid Ecology Bibliography of Agriculture with Subject Index Research Extension Series 1989 ADAP Crop Protection Conference Proceedings Plant Galls of Europe: Abies-Myrrhis Catalogue Des Aphididae Du Monde (Homoptera Aphidoidea) = Proceedings of the Hawaiian Entomological Society Aphids as Virus Vectors Hemiptera: Aphididae Micronesica Reference Book The Entomologist's Monthly Magazine Agricultural Science Service Research and Development Reports Aphids on the World's Trees R. L. Blackman M. K. Rana P. Parvatha Reddy A.F.G. Dixon R. L. Blackman Robert K Vander Meer Anthony Frederick George Dixon Agnes Vargo J. C. Roskam Georges Remaudière Hawaiian Entomological Society Kerry F. Harris Juan-Manuel Nieto Nafria Roger L. Blackman

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aphids are well known as pests of agriculture horticulture and forestry but they are also one of the most biologically interesting groups of plant feeding insects and thus have attracted the attention of biologists in many research fields such as ecology biodiversity physiology behaviour and genetics following the successful format of previous books on the world s aphids by the same authors these two volumes

provide a comprehensive species by species account of the aphids on the world's herbaceous plants and shrubs they can be used not only as an identification guide and information source for entomologists and taxonomists throughout the world but also as a unique database for studies of biodiversity and insect plant relationships in all 3120 aphid species in 340 genera are covered feeding on 2150 genera of host plants volume 1 features comprehensive host lists and keys to the aphids colonizing each plant genus this information is supplemented in volume 2 by a systematic account of all the aphid species which provides information on their appearance in life host range geographical distribution and life cycles there are 357 original line drawings 252 photographs of slide mounted specimens and 1000 references aphids on the world's herbaceous plants and shrubs is the culmination of many years of work by two leading specialists and provides an essential research tool and standard reference work for entomologists in universities and research institutes throughout the world

this book has been prepared to provide every production aspect of important vegetables along with information regarding origin and distribution composition and uses botany varieties climatic and soil requirement cultivation practices harvesting post harvest management insect pests and diseases along with their control measures its users would find this book very practical for raising vegetable crops profitably

this book is a compilation of information on insect mite vertebrate pests and fungal bacterial viral mycoplasma nematode diseases of tropical root and tuber crops such as cassava sweet potato yams taro amorphophallus yam bean and tannia the book highlights the distribution symptoms and damage biology survival and spread of each pest and describes management methods it also sheds light on different eco friendly pest management strategies including physical cultural chemical biological host resistance and integrated methods the book is written in a lucid style using easy to understand language and offers adoptable recommendations involving eco friendly control measures it serves as a useful reference source for policy makers research and extension workers practicing farmers and students the material can also be used for teaching post graduate courses in state agricultural universities

aphids are the most important of the sap sucking insects they are also major pests of agriculture horticulture and forestry this book covers the evolution of aphids and their development in relation to specific plants optimization is used to explain how modes of feeding and reproduction have affected their size and population structure and led to a very close and specific association with their host plants increasing knowledge of aphids has revealed that they are ideal organisms to use when studying many topical ecological issues they are particularly important for testing predictions of life history theory as their clonal structure makes it possible to test the response of a genotype to a wide range of conditions aphid ecology has been thoroughly revised and expanded since the first highly successful edition was published in 1985 this book is aimed at specialists post graduates and advanced undergraduates working in the fields of ecology and

entomology

the crops and their aphids the aphids techniques sources of information photographic guide

ants have always fascinated the nature observer reports from ancient egypt and mesopotamia indicate that ants interested humans long ago myrmecology as a science had its beginning in the last century with great naturalists like andre darwin emery escherich fabre fields forel janet karawaiew mccook mayr smith wasmann and wheeler they studied ants as an interesting biological phenomenon with little thought of the possible beneficial or detrimental effects ants could have on human activities see wheeler 1910 as an example when europeans began colonizing the new world serious ant problems occurred the first reports of pest ants came from spanish and portuguese officials of the fifteenth and sixteenth centuries in trinidad the west indies central america and south america leaf cutting ants were blamed for making agricultural development almost impossible in many areas these ants atta and acromyrmex species are undoubtedly the first ants identified as pests and may be considered to have initiated interest and research in applied myrmecology mariconi 1970

host selection size in aphids polymorphism cyclical parthenogenesis life history patterns dispersal population dynamics community structure and species diversity epilogue

in 1964 1965 herbert buhr published his bestimmungstabellen der gallen zoo und phytocecidien an pflanzen mittel und nordeuropas these keys were developed in the great tradition of cecidology in europe during the second half of the twentieth century a new generation of cecidologists expanded significantly our knowledge of plant galls and their distribution about doubling the knowledge known before we concentrated on buhr s keys but implemented additions especially for southern europe from houard 1908 1913 les zoocécidies des plantes d europe et du bassin de la méditerranée the nomenclature of as well gall inducers as host plants has been updates and information about specific groups of gall inducers has been reviewed and new insights have been given by a team of specialists to the proxy 9 000 galls and malformations described by buhr and houard we added about 1 250 new galls which have been described in the more recent literature moreover we collected distribution data for total europe and if available adjacent areas

aphids as virus vectors focuses on aphids as vectors of plant viruses and the fundamentals of their relationship with virus and host the mouthparts and feeding mechanism of aphids are discussed along with aphid penetration of plant tissues and the transmission mechanisms of aphids as virus vectors the intrinsic properties and taxonomy of aphid borne viruses are also examined comprised of 22 chapters this book begins with an overview of the importance of aphids as vectors their biology and the properties of the viruses they transmit these

introductory chapters prepare the reader for later ones on aphid virus plant interactions the next section deals with transmission mechanisms with emphasis on several novel alternatives to many of the traditionally held concepts of how aphids transmit viruses accessory factors in non persistent virus transmission are considered subsequent chapters focus on technological advances in aphid virus research including the use of aphid cell culturing radioisotope methodology membrane feeding and electrical measurement systems the most promising frontiers in epidemiological and control oriented research are discussed in the last two sections this monograph will be a useful resource for researchers from such varied sciences as entomology plant science and virology as well as for graduate students taking entomology and plant pathology courses on insects in relation to plant diseases

this book provides a comprehensive species by species account of all the world s tree dwelling aphids it can be used both as an identification guide by entomologists and taxonomists and as a database in studies of biosystematics and biodiversity in all 1758 aphid species are covered feeding on trees in 355 genera there are detailed host lists and illustrated keys to the aphids colonizing each tree genus followed by a systematic treatment of the aphid species in alphabetical order of genera with information on appearance in life host range distribution life cycle and natural enemies there are 722 drawings 108 photographs and more than 1800 literature references the volume will be a standard reference for workers in entomology and forestry

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