

The Insect Societies

Edward O. Wilson



The Insect Societies Belknap Press

P. J. Gullan, P. S. Cranston



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The Insect Societies Edward O. Wilson, 1971-01-01 A study of insect sociology presenting individual investigations of wasps ants bees and termites and discussing caste behavior communication symbioses and other topics **The Other Insect Societies** James T. Costa, 2006-09-30 In his exploration of insect societies that don't fit the eusocial schema James T. Costa gives these interesting phenomena their due He synthesizes the scattered literature about social phenomena across the arthropod phylum beetles and bugs caterpillars and cockroaches mantids and membracids sawflies and spiders **The Superorganism** Bert Holldobler, Edward O. Wilson, 2009 The Pulitzer Prize winning authors of *The Ants* render the extraordinary lives of the social insects ants bees wasps and termites in this visually spectacular volume 110 color and 100 black and white illustrations *The Insects* P. J. Gullan, P. S. Cranston, 2014-08-26 Insects represent over half of the planet's biological diversity This popular textbook provides a comprehensive introduction to this extraordinary diversity and places entomology central to the theory and practice of evolutionary and ecological studies Fully revised this fifth edition opens with a chapter concerning the popular side of insect studies including insects in citizen science zoos and butterfly houses and insects as food for humans and animals Key features of insect structure function behaviour ecology and classification are integrated with appropriate molecular studies Much of the book is organized around major biological themes living on the ground in water on plants in colonies and as predators parasites parasitoids and prey insects A strong evolutionary theme is maintained throughout There is major revision to the chapter on systematics and a new chapter *Insects in a Changing World* includes insect responses to and the consequences of both climate change and human assisted global alterations to distributions Updated Taxoboxes demonstrate topical issues and provide concise information on all aspects of each of the 28 major groupings orders of insects plus the three orders of non insect hexapods New boxes describe a worrying increase in insect threats to landscape and commercial trees including eucalypts palms and coffee and explain the value of genetic data including evolutionary developmental biology and DNA barcoding in insect biodiversity studies The authors maintain the clarity and conciseness of earlier editions and extend the profuse illustrations with new hand drawn figures Over 50 colour photographs together with the informative text and an accompanying website with links to video clips appendices textboxes and further reading lists encourage a deeper scientific study of insects The book is intended as the principal text for students studying entomology as well as a reference text for undergraduate and graduate courses in the fields of ecology agriculture fisheries and forestry palaeontology zoology and medical and veterinary science [Encyclopedia of Insects](#) Vincent H. Resh, Ring T. Cardé, 2003-04-04 The *Encyclopedia of Insects* is a comprehensive work devoted to all aspects of insects including their anatomy physiology evolution behavior reproduction ecology and disease as well as issues of exploitation conservation and management Articles provide definitive facts about all insects from aphids beetles and butterflies to weevils and yellowjackets Insects are beautiful and dreadful ravenous pests and devastating disease vectors resilient and resistant to

eradication and the source of great benefit and great loss for civilization Important for ecosystem health they have influenced the evolution of other life forms on our planet including humans Anyone interested in insects from university professors and researchers to high school students preparing a report will find *The Encyclopedia of Insects* an indispensable volume for insect information An unprecedented collection in 1 276 pages covering every important aspect of insects Presents 270 original articles thoroughly peer reviewed and edited for consistency Features 1 000 figures and tables including 500 full color photographs Includes the latest information contributed by 250 experts in 17 countries Designed to save research time with a full glossary 1 700 cross references and 3 000 bibliographic entries

The Biology of Hover Wasps Stefano Turillazzi, 2013-01-29 This book represents the culmination of the author's lifetime work on a single fascinating group of insects the hover wasps Stenogastrinae The author explores the biology of these little known wasps at the threshold of sociality presenting an ambitious survey of ideas about their evolution and an assessment of the current standing of controversial concepts Following taxonomic and morphological descriptions the behaviour colonial dynamics social communication and especially the remarkably diverse nests of wasps are discussed Compared to the better known species of paper wasps hornets and yellow jackets the hover wasps show various peculiarities such as characteristics of immature brood rearing nest defence and mating systems The nest architecture probably presents the most variable solutions in social wasps and is characterized by an astonishing level of camouflage making these insects an interesting example of special adaptation to forest environments

Reductionism and Cultural Being J.W. Smith, 2012-12-06

Like Ants Andy Turnbull, 2017-11-10

Crop Pollination by Bees, Volume 1 Keith S. Delaplane, 2021-07-30 Since the second half of the 20th Century our agricultural bee pollinators have faced mounting threats from ecological disturbance and pan global movement of pathogens and parasites At the same time the area of pollinator dependent crops is increasing globally with no end in sight Never before has so much been asked of our finite pool of bee pollinators This book not only explores the evolutionary and ecologic bases of these dynamics it translates this knowledge into practical research based guidance for using bees to pollinate crops It emphasizes conserving wild bee populations as well as culturing honey bees bumble bees and managed solitary bees To cover such a range of biology theory and practice from the perspectives of both the pollinator and the crop the book is divided into two volumes Volume 1 focuses on bees their biology coevolution with plants foraging ecology and management and gives practical ways to increase bee abundance and pollinating performance on the farm Volume 2 also available from CABI focuses on crops with chapters addressing crop specific requirements and bee pollination management recommendations Both volumes will be essential reading for farmers horticulturists and gardeners researchers and professionals working in insect ecology and conservation and students of entomology and crop protection

The Evolution of Social Behavior in Insects and Arachnids Jae C. Choe, Bernard J. Crespi, 1997 Social insects and arachnids exhibit complex forms of behavior that involve cooperation in building a nest defending against attackers or rearing offspring This

book is a comprehensive up to date guide to sociality and its evolution in a wide range of taxa *Insects on Palms* F. W. Howard, R. Giblin-Davis, D. Moore, R. Abad, 2001 Palms constitute one of the largest botanical families and include some of the world's most important economic plants This book reviews the interrelationships between palms and insects The host plants distribution and bionomics of representative insects are discussed

Information Processing in Social Insects Claire Detrain, Jean L. Deneubourg, Jacques M. Pasteels, 2012-12-06 Claire Detrain Jean Louis Deneubourg and Jacques Pasteels Studies on insects have been pioneering in major fields of modern biology In the 1970's research on pheromonal communication in insects gave birth to the discipline of chemical ecology and provided a scientific frame to extend this approach to other animal groups In the 1980's the theory of kin selection which was initially formulated by Hamilton to explain the rise of eusociality in insects exploded into a field of research on its own and found applications in the understanding of community structures including vertebrate ones In the same manner recent studies which decipher the collective behaviour of insect societies might be now setting the stage for the elucidation of information processing in animals Classically problem solving is assumed to rely on the knowledge of a central unit which must take decisions and collect all pertinent information However an alternative method is extensively used in nature problems can be collectively solved through the behaviour of individuals which interact with each other and with the environment The management of information which is a major issue of animal behaviour is interesting to study in a social life context as it raises additional questions about conflict cooperation trade-offs Insect societies have proven particularly open to experimental analysis one can easily assemble or disassemble them and place them in controllable situations in the laboratory

Applied Demography for Biologists James R. Carey, 1993-02-04 This is the first book to comprehensively apply the fundamental tools and concepts of demography to a nonhuman species It provides clear and concise treatment of standard demographic techniques such as life table analysis and population projection introduces models that have seldom appeared outside of the demographic literature including the multiple decrement life table the intrinsic sex ratio and multiregional demography and addresses demographic problems that are unique to nonhuman organisms such as the demographic theory of social insects and harvesting techniques applied to insect mass rearing The book also contains a synthesis of fundamental properties of population such as momentum and convergence to the stable age distribution with a section on the unity of demographic models and appendices detailing analytical methods used to quantify and model the data gathered in a ground breaking study on the mortality experience of 1.2 million medflies Based on an insect demography course at the University of California Davis the book is intended for practicing entomologists population biologists and ecologists for use in research or as a graduate text

Evolutionary Genetics of Invertebrate Behavior Milton Davis Huettel, 2013-11-11 In the preface to Sir Vincent B Wigglesworth's classic 1939 book on insect physiology he asserted that insects provide an ideal medium in which to study all the problems of physiology A strong case can be made as well for the use of insects as significant systems

for the study of behavior and genetics Contributions to genetics through decades of research on *Drosophila* species have made this small fly the most important metazoan in genetics research At the same time population and behavioral research on insects and other invertebrates have provided new perspectives that can be combined with the genetics approach Through such integrated research we are able to identify evolutionary genetics of behavior as a highly significant emerging area of interest These perspectives are ably described by Dr Guy Bush in the introductory chapter of this book During March 21-24 1983 many of the world's leading scientists in invertebrate behavioral genetics were drawn together in Gainesville Florida for a colloquium entitled Evolutionary Genetics of Invertebrate Behavior This conference was sponsored jointly by the Department of Entomology and Nematology University of Florida chaired by Dr Daniel Shankland and the Insect Attractants Behavior and Basic Biology Research Laboratory U S Department of Agriculture directed then by Dr Derrell Chambers

Sex, Cells, and Same-Sex Desire David A Parker, 2014-02-25 This fascinating new book explores the myriad aspects of biological theories of sexual preference Sex Cells and Same Sex Desire describes reviews and questions recent biological research on sexual preference from the point of view of knowledgeable scientists and of scholars in the social sciences and humanities representing the emerging field of gay studies The issues involved have a vibrant history are wide ranging and remain the objects of much controversy This book demystifies biological research on sexual preference and makes it accessible to readers unfamiliar with biological and medical research Sex Cells and Same Sex Desire is divided into several sections each of which is introduced by an explanation of key concepts and terms found in that section The book begins with a discussion of the history of biological theories and sociocultural concepts of gender and sexuality The next 3 sections explore specialized areas of biological science and related issues genetics and evaluation hormones and the endocrine system and brain physiology and structure A final section discusses social stigma science and medicine A glossary of terms used by the authors is included so readers may look up those that may be unfamiliar **Social Insects and the Environment** C.A.

Viraktamath, G.K. Veeresh, B. Mallik, 2023-10-09 This volume includes 370 papers presented by leading scientists at the 11th International Congress of IUSSI at Bangalore from August 5-11 1990 The papers which have been classified into 30 sections relate to the symposia papers of the Congress These cover various frontiers of research on social insects such as evolution of sociality polygyny social polymorphism kin recognition kin selection foraging strategies reproductive strategies biogeography and phylogenetics of bees and ants pollination ecology and management of pestiferous social insects The most important feature about these papers in this publication is that the results are presented in a crisp brief and precise manner Because of the brevity it has been possible to bring together in one publication almost all aspects of research on social insects from all parts of the world The time between presentation of papers at a Congress and publication has been avoided by publishing this volume on the eve of the Congress and this enables scientists to refer to the results immediately Insect Biodiversity Robert G. Foottit, Peter H. Adler, 2018-04-03 Volume Two of the new guide to the study of biodiversity in insects Volume Two

of Insect Biodiversity Science and Society presents an entirely new companion volume of a comprehensive resource for the most current research on the influence insects have on humankind and on our endangered environment With contributions from leading researchers and scholars on the topic the text explores relevant topics including biodiversity in different habitats and regions taxonomic groups and perspectives Volume Two offers coverage of insect biodiversity in regional settings such as the Arctic and Asia and in particular habitats including crops caves and islands The authors also include information on historical cultural technical and climatic perspectives of insect biodiversity This book explores the wide variety of insect species and their evolutionary relationships Case studies offer assessments on how insect biodiversity can help meet the needs of a rapidly expanding human population and examine the consequences that an increased loss of insect species will have on the world This important text Offers the most up to date information on the important topic of insect biodiversity Explores vital topics such as the impact on insect biodiversity through habitat loss and degradation and climate change With its companion Volume I presents current information on the biodiversity of all insect orders Contains reviews of insect biodiversity in culture and art in the fossil record and in agricultural systems Includes scientific approaches and methods for the study of insect biodiversity The book offers scientists academics professionals and students a guide for a better understanding of the biology and ecology of insects highlighting the need to sustainably manage ecosystems in an ever changing global environment

Membrane Computing Carlos Martín-Vide, Giancarlo Mauri, Gheorghe Paun, Grzegorz Rozenberg, Arto Salomaa, 2004-02-02 This book constitutes the thoroughly refereed post proceedings of the International Workshop on Membrane Computing WMC 2003 held in Tarragona Spain in July 2003 The 26 revised full papers presented were carefully selected during two rounds of reviewing and improvement All current topics in the emerging area of membrane computing are addressed ranging from issues in mathematics and theoretical computer science to potential applications in biology bioinformatics sorting ranking linguistics and computer graphics several implementations and simulations on computers computer networks and reconfigurable hardware are presented too

Social Recognition in Invertebrates Laura Aquiloni, Elena Tricarico, 2015-05-29 This book uses a wide range of case studies from different invertebrate taxa to describe the numerous forms of social recognition occurring in this large group of animals and traces the evolution of this cognitive ability The authors provide several examples of direct i e the target of recognition is a conspecific and indirect recognition i e recognition of a reliable proxy rather than an individual such as a den or a substrate and discuss cases of familiar recognition i e an animal remembers a conspecific but cannot tell what class it comes from or recognize its identity Class level recognition i e an animal assigns a conspecific to an appropriate class of animals and true individual recognition i e an animal both identifies and recognizes a conspecific on an individual basis are also addressed

Oracles of Science Karl Giberson, Mariano Artigas, 2009-02-27 Oracles of Science examines the popular writings of the six scientists who have been the most influential in shaping our perception of science how it works and how it relates to other fields of human

endeavor especially religion Biologists Stephen Jay Gould Richard Dawkins and Edward O Wilson and physicists Carl Sagan Stephen Hawking and Steven Weinberg have become public intellectuals articulating a much larger vision for science and what role it should play in the modern worldview The scientific prestige and literary eloquence of each of these great thinkers combine to transform them into what can only be called oracles of science Their controversial often personal sometimes idiosyncratic opinions become widely known and perceived by many to be authoritative Curiously the leading oracles of science are predominantly secular in ways that don't reflect the distribution of religious beliefs within the scientific community Many of them are even hostile to religion creating a false impression that science as a whole is incompatible with religion Karl Giberson and Mariano Artigas offer an informed analysis of the views of these six scientists carefully distinguishing science from philosophy and religion in the writings of the oracles This book will be welcomed by many who are disturbed by the tone of the public discourse on the relationship between science and religion and will challenge others to reexamine their own preconceptions about this crucial topic

Adopting the Song of Expression: An Emotional Symphony within **The Insect Societies Belknap Press**

In a global consumed by displays and the ceaseless chatter of quick transmission, the melodic beauty and emotional symphony produced by the published term usually diminish into the background, eclipsed by the persistent sound and interruptions that permeate our lives. However, set within the pages of **The Insect Societies Belknap Press** a stunning fictional treasure brimming with natural emotions, lies an immersive symphony waiting to be embraced. Crafted by a wonderful musician of language, this interesting masterpiece conducts viewers on a mental journey, well unraveling the concealed songs and profound affect resonating within each cautiously constructed phrase. Within the depths of the touching assessment, we shall discover the book is key harmonies, analyze its enthralling writing style, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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