

Social insects - Types, Examples with Social life, Importance, Advantages



Social Insects Volume I

Henry Hermani



Social Insects Volume I:

Social Insects V1 Henry Hermani, 2012-12-02 Social Insects Volume I is a part of a four volume discourse and collection of research on insect sociobiology. This volume covers the modern theory with certain concepts of insect sociality particularly through genetic, behavioral, and evolutionary pathways. This book consists of eight chapters which mostly deal with the sociality of insects and other aspects. The first chapter provides an introduction to the subject of insect sociality. Topics in this chapter include definition of sociality types of social insects and insect sociobiology. The next chapter focuses on the origin and evolution of insect sociality and discusses the theories of origin of sociality. The following chapters discuss the aspects of social insects in terms of antiquity and territoriality. Caste differentiation and division of labor is also emphasized as well as the genetics of sociality. The last two chapters deal with the larvae of the social hymenoptera and the social and evolutionary significance of social insect symbionts. This volume is a good reference for students and teachers in the study of entomology, zoology, and biology.

Social Insects V2 Henry Hermani, 2012-12-02 Social Insects Volume II is essentially a continuation and review of topics covered in Volume I. The main focus of this volume is on the systematic of eusocial hymenoptera and the closely associated realms of presocial insects and social non-insectan arthropods. Consisting of five major chapters, this volume starts with the chapter on the enemies and defense mechanisms of termites. Several mechanisms are discussed in this chapter such as defense by the nest workers and soldiers. Chapter 3 focuses on presocial insects and a comparison of parental care without nests and based on nests. Chapter 4 discusses the sociality of Arachnida and emphasizes the patterns and evolution of sociality in Arachnida, particularly spiders. Two chapters discuss the social hymenoptera, including its defensive mechanisms and its systematics. This volume will be of great help to students and professionals in the field of entomology, biology, and zoology.

Social Insects V3 Henry Hermani, 2012-12-02 Social Insects Volume III emphasizes the insect symbionts that represent a very complex group of organisms with very diverse habits. This volume primarily focuses on various types of bees and their sociality. This book consists of four major chapters where the first chapter represents the conclusion of discussion on social insect phenomena. The three remaining chapters discuss in detail the biology of the featured eusocial insects. Chapter 1 includes a discussion on insects and other arthropods. The following chapters focus on various types of bee, including bumble bees, honey bees, and stingless bees. Chapter 2 focuses on the behavior and ecology of bumble bees, whereas Chapters 3 and 4 discuss in detail the different biological aspects of honey and stingless bees, respectively. Topics include the evolution of sociality, colony caste differentiation, and distribution of these species. Students and researchers interested in the study of bees will find this book very valuable. *Social Insects*, 1953

Social Insects V4 Henry Hermani, 2012-12-02 Social Insects Volume IV is the last installment of a four volume treatise and is dedicated to the discussion on wasps and ants. Comprised of four chapters, this volume focuses on the sociality of various types of ants as their group has very diverse habits. The first chapter describes the general biology and behavior of social wasps and

discusses the cyclical populations nest associates and communal defense of wasps Chapter 2 introduces the broad and general overview of the biology of ants including their behavior food collection and nest construction Chapters 3 and 4 present the biology of army and fungus ants respectively This volume also explains how ants are defined and identified including their colony composition and behavior As with the previous volumes this volume seeks to be of service to students researchers and scientists in various fields of research particularly entomology social biology zoology and biological science

American Social Insects Charles Duncan Michener, Mary H. Michener, 2013-08 **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 **The Biology of Social Insects** Michael D. Breed, Charles D. Michener, Howard E. Evans, 2019-06-25 In this book internationally known experts provide a comprehensive view of current knowledge of social insect biology including much previously unpublished information Particular emphasis is given to the relationships between social insects and humans sections are devoted to economically important social insects pollination foraging and the role of insects in ecosystems and agroecosystems The authors also discuss communication behavior and caste within insect colonies A special section focuses on the neurobiology of social insects A series of papers considers the presocial insects which live in family groups but without caste differences Also well represented are the fields of sociobiology and the origins and evolution of social behavior The book will be valuable to agricultural scientists as well as to entomologists sociobiologists ecologists ethologists and natural historians Endocrinologists and neurobiologists will also find important new material *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

American Beetles, Volume I Jr., Ross H. Arnett, Michael C. Thomas, 2000-12-28 A thorough update of Arnett's The Beetles of the United States American Beetles Volumes I and II cover the genera of beetles that occur in Alaska Canada and the contiguous United States Built on the foundation of the original work and almost completely rewritten with contributions from more than 60 coleopterists these volumes describe each fa

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