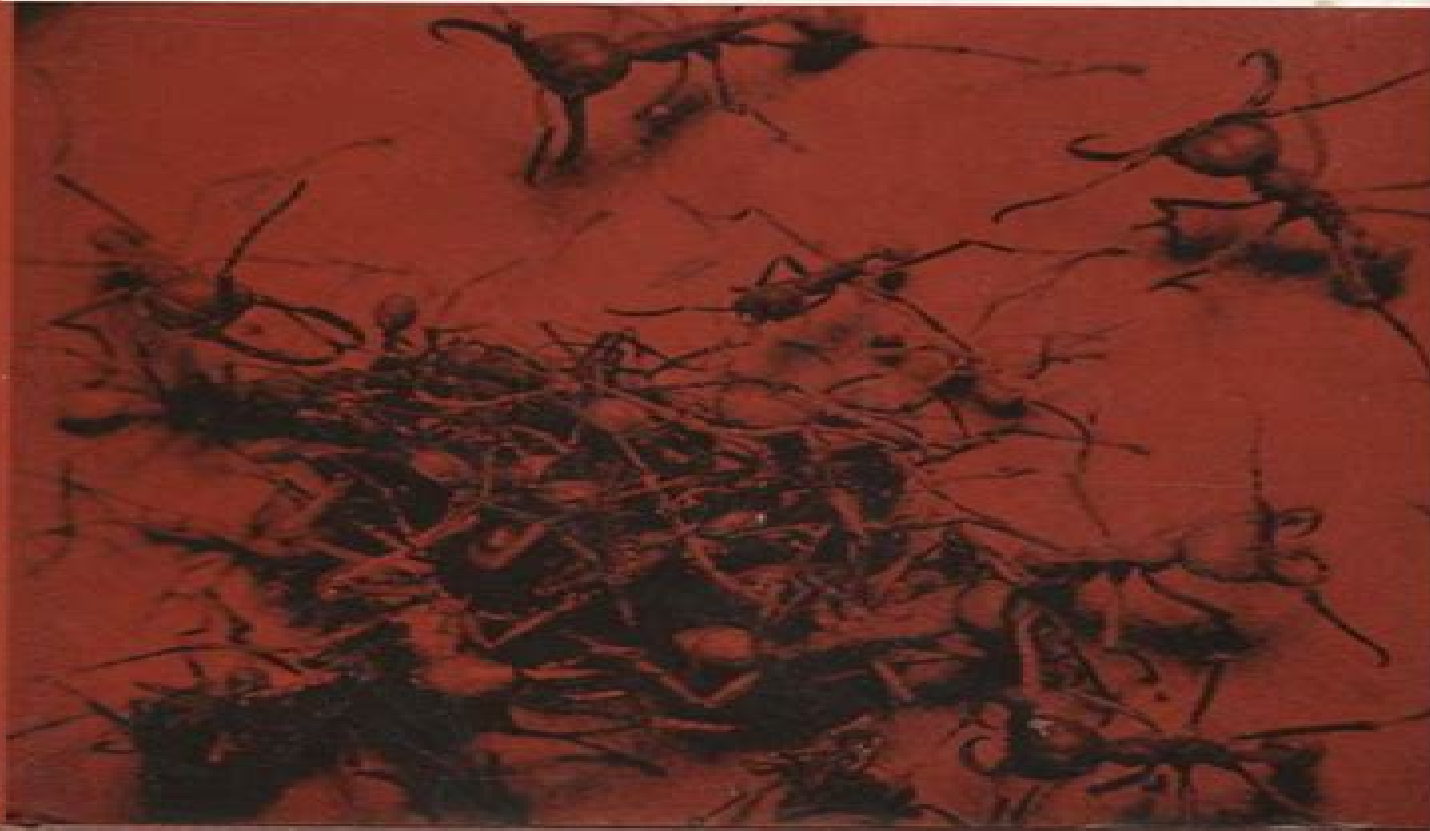


# ARMY ANTS

*A Study in Social Organization*

T. C. Schneirla

*edited by* Howard R. Topoff



# Army Ants A Study In Social Organization

**Andrew F.G. Bourke, Nigel R. Franks**



## **Army Ants A Study In Social Organization:**

**Army Ants** Theodore Christian Schneirla, Howard R. Topoff, 1971-01-01      **Army Ants** Daniel J. C. Kronauer, 2020-10-06

A richly illustrated captivating study of army ants nature's preeminent social hunters A swarm raid is one of nature's great spectacles In tropical rainforests around the world army ants march in groups by the thousands to overwhelm large solitary invertebrates along with nests of termites wasps and other ants They kill and dismember their prey and carry it back to their nest where their hungry brood devours it They are the ultimate social hunters demonstrating the most fascinating collective behavior In *Army Ants* we see how these insects play a crucial role in promoting and sustaining the biodiversity of tropical ecosystems The ants help keep prey communities in check while also providing nutrition for other animals Many species depend on army ants for survival including a multitude of social parasites swarm following birds and flies And while their hunting behavior and the rules that govern it are clearly impressive army ants display collective behavior in other ways that are no less dazzling They build living nests called bivouacs using their bodies to protect the queen and larvae The ants can even construct bridges over open space or obstacles by linking to one another using their feet These incredible feats happen without central coordination They are the result of local interactions self organization that benefits the society at large Through observations stories and stunning images Daniel Kronauer brings these fascinating creatures to life Army ants may be small but their collective intelligence and impact on their environment are anything but      *Social Evolution in Ants*

Andrew F.G. Bourke, Nigel R. Franks, 2019-12-31 Biologists since Darwin have been intrigued and confounded by the complex issues involved in the evolution and ecology of the social behavior of insects The self sacrifice of sterile workers in ant colonies has been particularly difficult for evolutionary biologists to explain In this important new book Andrew Bourke and Nigel Franks not only present a detailed overview of the current state of scientific knowledge about social evolution in ants but also show how studies on ants have contributed to an understanding of many fundamental topics in behavioral ecology and evolutionary biology One of the substantial contributions of *Social Evolution in Ants* is its clear explanation of kin selection theory and sex ratio theory and their applications to social evolution in insects Working to dispel lingering skepticism about the validity of kin selection and more broadly of selfish gene theory Bourke and Franks show how these ideas underpin the evolution of both cooperation and conflict within ant societies In addition using simple algebra they provide detailed explanations of key mathematical models Finally the authors discuss two relatively little known topics in ant social biology life history strategy and mating systems This comprehensive up to date and well referenced work will appeal to all researchers in social insect biology and to scholars and students in the fields of entomology behavioral ecology and evolution      *Advances in the Study of Behavior*, 1984-02-01 *Advances in the Study of Behavior*      **The Ants** Bert Hölldobler, Edward O. Wilson, 1990 This landmark work is a thoroughgoing survey of one of the largest and most diverse groups of animals on the planet Hölldobler and Wilson review in exhaustive detail virtually all topics in the anatomy

physiology social organization ecology and natural history of the ants      Production Ecology of Ants and Termites Michael Vaughan Brian, 1978 This study concentrates on the production ecology of ants and termites. Ants and termites are highly socialised and their groupings in their most developed form enable them to function as large organisms comparable with the larger mammals in their influence in ecosystems      The Evolutionary Ecology of Ant-Plant Mutualisms Andrew James Beattie, 1985-11-29 This important work explores the natural history, experimental approach and integration of evolutionary and ecological literature of ant-plant mutualisms      *On the Move* Sue Boinski, Paul A. Garber, 2000-05-15 Getting from here to there may be simple for one individual. But as any parent scout leader or CEO knows, herding a whole troop in one direction is a lot more complicated. Who leads the group? Who decides where the group will travel and using what information? How do they accomplish these tasks? *On the Move* addresses these questions, examining the social, cognitive and ecological processes that underlie patterns and strategies of group travel. Chapters discuss how factors such as group size, resource distribution and availability, the costs of travel, predation, social cohesion and cognitive skills affect how individuals as well as social groups exploit their environment. Most chapters focus on field studies of a wide range of human and nonhuman primate groups, from squirrel monkeys to Turkana pastoralists, but chapters covering group travel in hyenas, birds, dolphins and bees provide a broad taxonomic perspective and offer new insights into comparative questions such as whether primates are unique in their ability to coordinate group level activities      *A Bibliography of Ant Systematics* Philip S. Ward, Barry Bolton, William L. Brown, Steven O. Shattuck, 1996-01-01 This bibliography is a comprehensive compilation of the literature on ant systematics. Covering the period 1758 to 1995, it contains entries for approximately 8 000 publications on the taxonomy, evolution and comparative biology of ants. Most of the literature citations have been carefully verified and precisely dated. An introductory chapter discusses the problems associated with dating a citation of taxonomic literature. A list of all serials cited more than 1 300 titles and their abbreviations accompanies the bibliography      Handbook of Human Computation Pietro Michelucci, 2013-12-04 This volume addresses the emerging area of human computation. The chapters, written by leading international researchers, explore existing and future opportunities to combine the respective strengths of both humans and machines in order to create powerful problem-solving capabilities. The book bridges scientific communities, capturing and integrating the unique perspective and achievements of each. It coalesces contributions from industry and across related disciplines in order to motivate, define and anticipate the future of this exciting new frontier in science and cultural evolution. Readers can expect to find valuable contributions covering Foundations, Application Domains, Techniques and Modalities, Infrastructure and Architecture, Algorithms, Participation, Analysis, Policy and Security, and the Impact of Human Computation. Researchers and professionals will find the *Handbook of Human Computation* a valuable reference tool. The breadth of content also provides a thorough foundation for students of the field      **The Complex World of Ants** Vonnie D.C. Shields, 2018-10-24 Ants play important roles in natural ecosystems. These eusocial insects are omnivorous feeders and live in

a wide variety of habitats They belong to the order Hymenoptera and family Formicidae There are more than 8800 described species that occur throughout the world They have large heads segmented antennae and powerful jaws and undergo complete metamorphosis In general ants live typically in structured nest communities forming nest sites in close proximity to moisture and food underground in ground level mounds or in trees Among ant species there is a wide range of interesting behaviors displayed Many species are mutualistic where they develop interactions with other insects and or plants Other species display parasitic relationships among each other Still other species exhibit predatory behaviors This book contains contributions written by experts in their respective fields and targets a wide audience It is highly recommended as a valuable resource for general biologists entomologists ecologists zoologists and students and teachers in training in this subject matter

*Annals of the Entomological Society of America*, 1996      *Developmental Psychobiology* George F. Michel, Celia L. Moore, 1995 This text is the first to provide a coherent theoretical treatment of the flourishing new field of developmental psychobiology which has arisen in recent years on the crest of exciting advances in evolutionary biology developmental neuroscience and dynamic systems theory Michel and Moore two of the field's key pioneers and researchers integrate primary source information from research in both biological and psychological disciplines in a clear account of the frontier of biopsychological investigation and theorizing Explicitly conceptual and historical the first three chapters set the stage for a clear understanding of the field and its research with particular attention to the nature nurture question The next three chapters each provide information about a basic subfield in biology genetics evolution embryology that is particularly relevant for developmental studies of behavior These are followed by extended treatments of three spheres of inquiry behavioral embryology cognitive neuroscience animal behavior in terms of how a successful interdisciplinary approach to behavioral development might look A final chapter comments on some of the unique aspects of development study From this detailed and clearly organized text students will achieve a firm grasp of some of science's most fertile questions about the relation between evolution and development the relation between brain and cognitive development the value of a natural history approach to animal behavior and what it teaches us about humans and much more Each chapter contains material that questions the conventional wisdom held in many subdisciplines of biology and psychology Throughout the text challenges students to think creatively as it thoroughly grounds them in the field's approach to such topics as behavioral genetic analysis the concept of innateness molecular genetics and development neuroembryology behavioral embryology maturation cognition and ethology A Bradford Book

**Collective Animal Behavior** David J. T. Sumpter, 2010-10-17 The book combines traditional approaches to behavioral ecology with ideas about self organization and complex systems from physics and mathematics

*Sociobiology* Edward O. Wilson, 2000-03-24 When this classic was first published in 1975 it created a new discipline and started a tumultuous round in the nature versus nurture debate In the introduction to this edition Wilson shows how research in human genetics and neuroscience over the past quarter of a century has strengthened

the case for a biological understanding of human nature      *Organization of Insect Societies* Jürgen Gadau, Jennifer Fewell, 2009-02-28 In this landmark volume an international group of scientists has synthesized their collective expertise and insight into a newly unified vision of insect societies and what they can reveal about how sociality has arisen as an evolutionary strategy Jürgen Gadau and Jennifer Fewell have assembled leading researchers from the fields of molecular biology evolutionary genetics neurophysiology behavioral ecology and evolutionary theory to reexamine the question of sociality in insects Recent advances in social complexity theory and the sequencing of the honeybee genome ensure that this book will be valued by anyone working on sociality in insects At the same time the theoretical ideas presented will be of broad ranging significance to those interested in social evolution and complex systems      Over 40 Publications / Studies Combined: UAS / UAV / Drone Swarm Technology Research ,      **Behavioral Evolution and Integrative Levels** G. Greenberg, E. Tobach, 2014-05-22 First published in 1984 In this collection of essays Schneirla is identified as a scientist and citizen unafraid to hold and present unpopular ideas Schneirla had always been opposed to the hereditarian views that allowed for the politicalization of psychology and spoke out early against the idea of the genetic basis of behavior It is fitting that his ideas which still form the nexus of the major theoretical criticism of classical ethology now can be seen to stand in opposition to the hereditarian views of socio biology      Sperm Competition and the Evolution of Animal Mating systems Robert L. Smith, 2012-12-02 Sperm Competition and the Evolution of Animal Mating Systems describes the role of sperm competition in selection on a range of attributes from gamete morphology to species mating systems This book is organized into 19 chapters and begins with the conceptualization of sperm competition as a subset of sexual selection and its implications for the insects The following chapter describes the relationship between multiple mating and female fitness with an emphasis on determining the conditions under which selection on females is likely to counteract selection on males for avoiding sperm competition Other chapters consider the female perspective on sperm competition the evolutionary causation at the level of the individual male gamete and the correlation of high paternal investment and sperm precedence in the insects The remaining chapters are arranged phylogenetically and explore the sperm competition in diverse animal taxa such as the Drosophila Lepidoptera spiders amphibians and reptiles These chapters also cover the evolution of direct versus indirect sperm transfer among the arachnids or the problem for kinship theory presented by multiple mating and sperm competition in the Hymenoptera This book further discusses the remarkable potential for sperm competition among certain temperate bat species whose females store sperm through winter hibernation and the mixed strategies and male caused female genital trauma as possible sperm competition adaptations in poeciliid fishes The concluding chapter examines the predictions concerning testes size and mating systems in the primates and the possible role of sperm competition in human selection This book is of great value to reproductive biologists and researchers      *Behavioral Mechanisms in Evolutionary Ecology* Leslie Real, 1994-11-30 The first book length exploration of behavioral mechanisms in evolutionary ecology this

ambitious volume illuminates long standing questions about cause and effect relations between an animal's behavior and its environment. By focusing on biological mechanisms, the sum of an animal's cognitive, neural, developmental, and hormonal processes, leading researchers demonstrate how the integrated study of animal physiology, cognitive processes, and social interaction can yield an enriched understanding of behavior. With studies of species ranging from insects to primates, the contributors examine how various animals identify and use environmental resources and deal with ecological constraints as well as the roles of learning, communication, and cognitive aspects of social interaction in behavioral evolution. Taken together, the chapters demonstrate how the study of internal mechanistic foundations of behavior in relation to their ecological and evolutionary contexts and outcomes provides valuable insight into such behaviors as predation, mating, and dispersal. *Behavioral Mechanisms in Evolutionary Ecology* shows how a mechanistic approach unites various levels of biological organization to provide a broader understanding of the biological bases of behavioral evolution.

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