



Social Evolution in Ants

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

Download now

Read Online →

Social Evolution in Ants By Andrew F.G. Bourke, Nigel R. Franks

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.

↓ [Download Social Evolution in Ants ...pdf](#)

📄 [Read Online Social Evolution in Ants ...pdf](#)

Social Evolution in Ants

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

Social Evolution in Ants By Andrew F.G. Bourke, Nigel R. Franks

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.

Social Evolution in Ants By Andrew F.G. Bourke, Nigel R. Franks Bibliography

- Sales Rank: #2121050 in Books
- Brand: Brand: Princeton University Press
- Published on: 1995-10-16
- Released on: 1995-11-05
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.23" w x 6.14" l, 1.63 pounds
- Binding: Paperback
- 550 pages

 [Download Social Evolution in Ants ...pdf](#)

 [Read Online Social Evolution in Ants ...pdf](#)

Editorial Review

Review

"I cannot praise their book too highly.... [It] will surely become essential reading for any student interested in the evolution of insect sociality and will be a standard reference source for teachers and researchers alike."--*The Times Higher Education Supplement*

"*Social Evolution in Ants* is recommended not only to people enthusiastic about social insects but also to those with a broad interest in evolution in general."--*Nature*

From the Back Cover

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.

Users Review

From reader reviews:

Kenneth Tillman:

The particular book *Social Evolution in Ants* will bring you to the new experience of reading any book. The author style to elucidate the idea is very unique. Should you try to find new book to study, this book very acceptable to you. The book *Social Evolution in Ants* is much recommended to you to see. You can also get the e-book from official web site, so you can easier to read the book.

Janie Ross:

Reading can called imagination hangout, why? Because when you are reading a book especially book entitled *Social Evolution in Ants* your head will drift away trough every dimension, wandering in each aspect that maybe unidentified for but surely might be your mind friends. Imaging each and every word written in a book then become one web form conclusion and explanation which maybe you never get prior to. The *Social Evolution in Ants* giving you an additional experience more than blown away your head but also giving you useful facts for your better life on this era. So now let us present to you the relaxing pattern is your body and mind will likely be pleased when you are finished examining it, like winning a. Do you want to try this extraordinary spending spare time activity?

Juan Reynolds:

Do you have something that you enjoy such as book? The guide lovers usually prefer to choose book like comic, brief story and the biggest one is novel. Now, why not hoping Social Evolution in Ants that give your pleasure preference will be satisfied by simply reading this book. Reading practice all over the world can be said as the opportunity for people to know world much better then how they react toward the world. It can't be said constantly that reading behavior only for the geeky man but for all of you who wants to possibly be success person. So , for all you who want to start reading through as your good habit, you may pick Social Evolution in Ants become your starter.

Mitchell Smith:

Beside this kind of Social Evolution in Ants in your phone, it might give you a way to get more close to the new knowledge or info. The information and the knowledge you will got here is fresh from the oven so don't always be worry if you feel like an outdated people live in narrow community. It is good thing to have Social Evolution in Ants because this book offers for you readable information. Do you at times have book but you don't get what it's all about. Oh come on, that won't happen if you have this in your hand. The Enjoyable blend here cannot be questionable, including treasuring beautiful island. Techniques you still want to miss the idea? Find this book as well as read it from currently!

Download and Read Online Social Evolution in Ants By Andrew F.G. Bourke, Nigel R. Franks #U23YTEOBJWS

Read Social Evolution in Ants By Andrew F.G. Bourke, Nigel R. Franks for online ebook

Social Evolution in Ants By Andrew F.G. Bourke, Nigel R. Franks Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Social Evolution in Ants By Andrew F.G. Bourke, Nigel R. Franks books to read online.

Online Social Evolution in Ants By Andrew F.G. Bourke, Nigel R. Franks ebook PDF download

Social Evolution in Ants By Andrew F.G. Bourke, Nigel R. Franks Doc

Social Evolution in Ants By Andrew F.G. Bourke, Nigel R. Franks Mobipocket

Social Evolution in Ants By Andrew F.G. Bourke, Nigel R. Franks EPub

U23YTEOBJWS: Social Evolution in Ants By Andrew F.G. Bourke, Nigel R. Franks