

Evolution of social insect colonies: sex allocation and kin selection, 1996, 306 pages, Rossiter Henry Crozier, Pekka Pamilo, 0198549431, 9780198549437, Oxford University Press, 1996

This book is about the genetics and behaviour of individuals within colonies of social insects - bees, wasps, ants, and termites. Colonial living is characterized by division of labour and finely coordinated organization, by reproductive function being limited to certain individuals, by cooperative brood care, and by the presence of non-reproductive workers. Within a colony, however, many events are the result of conflicts between individuals seeking to maximize their own interests. Ever since Darwin, this interplay of cooperation and conflict has raised many important questions in evolutionary biology, especially about how cooperative behaviour is maintained in the absence of direct reproduction by workers. How is the heritable component of this behaviour passed on? Crozier and Pamilo's contribution is to analyse the genetic basis of the patterns of reproduction and resource allocation found in social insect colonies. This is done more comprehensively and with greater depth and insight than in any previous study, and is a significant step forward in the fields of population genetics and social evolution.

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Chemistry and biology of social insects , International Union for the Study of Social Insects. Congress, 1987, Insect biochemistry, 757 pages. .

Advances in Myrmecology , James C. Trager, 1988, Ants, 551 pages. .

Behavioural Ecology An Evolutionary Approach, J. R Krebs, N. B Davies, Jul 17, 2009, Science, 464 pages. Intended for graduate and upper level undergraduate courses in behavioural ecology where students are already familiar with the basic ideas, this book continues to define the.

The Evolution of Social Wasps , St. Louis James H. Hunt Professor of Biology University of Missouri, Mar 1, 2007, Science, 280 pages. Social behavior occurs in some of the smallest animals as well as some the largest, and the transition from solitary life to sociality is an unsolved evolutionary mystery. In.

Social Evolution in Ants , Andrew F. G. Bourke, 1995, Science, 529 pages. Biologists have long been intrigued and confounded by the complex issues in the evolution and ecology of the social behaviour of insects. The self-sacrifice of sterile workers.

The Superorganism The Beauty, Elegance, and Strangeness of Insect Societies, Bert Hölldobler, Edward O. Wilson, 2009, Nature, 522 pages. The Pulitzer Prize-winning authors of Ants present a lavishly detailed account of the extraordinary lives of social insects that draws on more than two decades of research and.

Interindividual behavioral variability in social insects , Robert L. Jeanne, Entomological Society of America, International Union for the Study of Social Insects. North American Section, 1988, Science, 456 pages. .

Evolution of social behavior hypotheses and empirical tests : report, Hubert Markl, Marcus W.

Feldman, Dahlem Konferenzen, 1980, Social Science, 253 pages. .

Social Insects, Volume 4 , Henry Hermani, Dec 2, 2012, Science, 400 pages. Social Insects V4.

Information Processing in Social Insects , Claire Detrain, J. L. Deneubourg, Jacques M. Pasteels, Jan 1, 1999, Science, 415 pages. The book provides a first comprehensive overview of both experimental and theoretical research on information processing in insect societies. Its purpose is to make the reader.

Selected readings in sociobiology , James H. Hunt, Jan 1, 1980, Social Science, 447 pages. .

Experimental behavioral ecology and sociobiology In memoriam Karl von Frisch, 1886-1982 : International Symposium of the Akademie der Wissenschaften und der Literatur, Mainz, October 17th-19th, 1983 at Mainz, Akademie der Wissenschaften und der Literatur (Germany), 1985, Sociobiology, 488 pages. .

The Evolution of Social Behaviour in Insects and Arachnids , Jae C. Choe, Bernard J. Crespi, Mar 27, 1997, Psychology, 541 pages. Comprehensive and unbeatable guide to the evolution of cooperation in insects and arachnids..

Parasites in Social Insects , Paul Schmid-Hempel, 1998, Science, 409 pages. This book analyzes for the first time how parasites shape the biology of social insects: the ants, wasps, bees, and termites. Paul Schmid-Hempel provides an overview of the.

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