



# The Insects: Structure and Function

By R. F. Chapman

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The Insects takes a detailed look at how insects function as animals. This textbook brings together basic anatomy and physiology and relates them to behavior. Coverage emphasizes the roles of different functional systems in the context of the whole organism using studies of many different species as examples. Unlike other texts, The Insects does not dwell on classification, opting instead to take an in-depth look at physiology, providing any biologist with a better basic understanding of how insects work. A long-awaited update of a well established standard text and respected reference work for students and researchers in zoology, entomology and physiology, this fourth edition has been rewritten throughout, while retaining the successful structure of the earlier editions. Illustrations have been augmented with electron micrographs, and expanded reference sections will make this volume a valuable addition to all biologists' bookshelves.

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## **The Insects: Structure and Function** By R. F. Chapman Bibliography

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## **Editorial Review**

### **Review**

"Because it has been so thoroughly updated, it is almost misleading just to call this book a new edition...the book has many very valuable changes for students of entomology...The figures are clean and uncluttered, which shows an authoritative knowledge of the important concepts...The subjects covered in *The Insects* are as comprehensive as in the previous edition...This book should be on the shelf of every entomologist and student of insects. It is a splendid and much needed revision that brings insect structure and function up to date in the most accessible fashion." *Quarterly Review of Biology*

"This edition is a complete upgrade of the previous three. The book is intended for entomology courses and as a reference work for biologists in general and it covers all aspects of insect structure and function...profusely illustrated with line-drawings, diagrams, charts, tables, graphs and photographs. A taxonomic index and a subject index are provided." *Biosis*

"The book is superbly illustrated with line drawings, graphs, and occasional halftone photographs...The text itself is written very clearly and one can recommend this to either undergraduate or graduate students without any hesitation whatsoever. The abundant literature citations and excellent index add to the value of the textual discussions, making this book an invaluable resource for any biologist working with insects and aspects of their chemical ecology and physiology." *Journal of Chemical Ecology*

"Yet another fine improvement to this classical treatise that can be both used as a textbook and as a reference source...An essential book for all entomologists and comparative physiologists." *Northeastern Naturalist*

### **About the Author**

R. F. Chapman (1930-2003) was an eminent insect physiologist and Professor in the Division of Neurobiology at the University of Arizona. His first four editions of *The Insects* have formed the standard text in the field for more than forty years.

Stephen J. Simpson is ARC Laureate Fellow in the School of Biological Sciences and Academic Director of the Perkins Centre for the study of obesity, diabetes and cardiovascular disease at the University of Sydney. His core research aims are to understand swarming in locusts and to devise a new framework for studying nutrition. In 2012 he was awarded the Wigglesworth Medal from the Royal Entomological Society of London.

Angela E. Douglas is Daljit S. and Elaine Sarkaria Professor of Insect Physiology and Toxicology at Cornell University, New York. Her research and teaching is motivated by the mechanisms underlying insect function and her core research interests are the overlapping topics of insect nutrition and interactions between insects and beneficial microorganisms. She is a Fellow of the Royal Entomological Society and the Entomological Society of America.

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