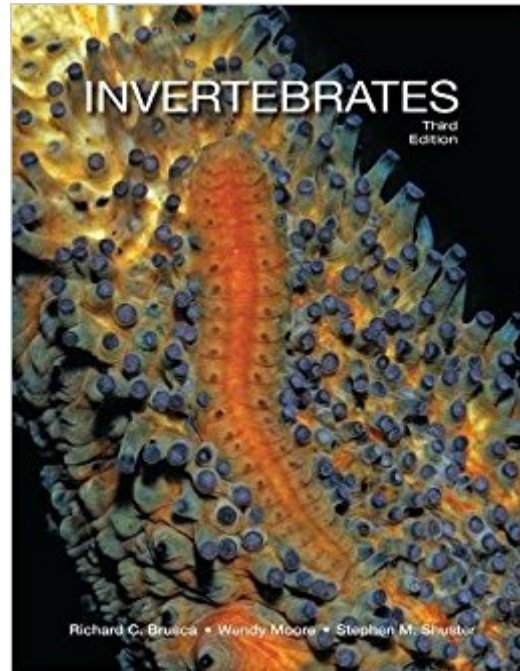


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# Invertebrates



## Synopsis

In the twelve years since publication of *Invertebrates, Second Edition*, fundamental shifts have occurred in our understanding of the origins and evolutionary relationships among protists and animals. These changes are largely due to the explosion of molecular phylogenetics and evo-devo research, emergence of the new field of animal genomics, major fossil discoveries in China, Australia, and elsewhere, and important new embryological and ultrastructural studies. As a result:- New phyla have been described (e.g., Micrognathozoa, Xenacoelomorpha).- Old phyla have been collapsed into others (e.g., Sipuncula and Echiura are now placed within Annelida; acanthocephalans are now known to be highly modified, parasitic rotifers).- Phyla once thought to be deuterostomes are now part of the protostome clade (e.g., Chaetognatha, Phoronida, Bryozoa, Brachiopoda).- The Protostomia has been reorganized into two major clades known as Ecdysozoa and Spiralia. For each of the thirty-two currently recognized phyla, *Invertebrates, Third Edition*, presents detailed classifications, revised taxonomic synopses, updated information on general biology and anatomy, and current phylogenetic hypotheses, organized with boxes and tables, and illustrated with abundant line drawings and new color photos. The chapters are organized around the "new animal phylogeny," while introductory chapters provide basic background information on the general biology of invertebrates. Two new coauthors have been added to the writing team, and twenty-two additional invertebrate zoologists have contributed to chapter revisions. This benchmark volume on our modern views of invertebrate biology should be in every zoologist's library. For Instructors Instructor's Resource Library: Available to qualified adopters, the Instructor's Resource Library for *Invertebrates, Third Edition*, contains an extensive collection of images for use in teaching the course:- Textbook Figures and Tables: All of the textbook's figures and tables are included as both high- and low-resolution JPEGs, for easy use in presentation software, learning management systems, and assessments. New for the Third Edition, this now includes all of the textbook's photographs.- Supplemental Photo Collection: This collection of over 900 photographs depicts organisms that span the entire range of phyla covered in the textbook.- PowerPoint Presentations: Two ready-to-use PowerPoint presentations are provided for each chapter of the textbook: one that contains all of the textbook figures and tables, and one that contains all of the relevant photos from the supplemental photo collection.

## Book Information

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## Customer Reviews

"A wonderful book, and one remains amazed at the perfection of this edition, full color, and the precision and detail of the figures. A masterpiece that will dominate the phylogeny for many, many years."--Pierre Jolivet, *L'Entomologiste* (from the original French) "I am so thrilled that we finally getting a third edition of *Invertebrates*! I've been teaching invertebrate zoology for over fifteen years and this text is superior to any other on the market!"--Tamara J. Cook, Sam Houston State University

Richard C. Brusca is Executive Director, Emeritus of the Arizona-Sonora Desert Museum and a Research Scientist at the University of Arizona. Rick is the author of nearly 200 research publications and 13 books, including the popular field guides *Common Intertidal Invertebrates of the Gulf of California*, *A Seashore Guide to the Northern Gulf of California*, and *A Natural History the Santa Catalina Mountains, with an Introduction to the Madrean Sky Islands*. He has been the recipient of more than 100 research grants from the National Science Foundation, NOAA, the National Geographic Society, the David and Lucile Packard Foundation, and many other agencies and foundations. He has served on panels for the National Science Board, National Science Foundation, Smithsonian Institution, PEW Program in Conservation and the Environment, Public Broadcasting Service, IUCN Species Survival Commission, and many others. Rick has also served on many environmental non-profit boards, in the U.S. and abroad, and he has organized and conducted field expeditions throughout the world, on every continent. He is an elected Fellow in the American Association for the Advancement of Science (AAAS), the Linnean Society of London (FLS), and the California Academy of Sciences. Wendy Moore is Assistant Professor in the Department of Entomology at the University of Arizona and Curator of the University of Arizona

Insect Collection. Her degrees were earned at Vanderbilt University (B.S., General Biology), the College of Charleston (M.S., Marine Biology), and the University of Arizona (Ph.D., Entomology/Ecology and Evolutionary Biology). Dr. Moore's long-term research interest is the evolution of biotic diversity--especially the evolution of symbiotic lifestyles and how major biotic, climatic, and tectonic events may have influenced the timing and patterns of diversification. Much of her current research is on the carabid beetle subfamily Paussinae, many species of which are obligate symbionts with ants. She is also deeply committed to collections care and enhancement, and the use of bioinformatics to make collections-based data widely available to diverse user communities. Stephen M. Shuster is Professor of Invertebrate Zoology and Curator of Marine Invertebrates and Molluscs at Northern Arizona University. He earned a B.S. in Zoology from the University of Michigan, an M.S. in Biology from the University of New Mexico, and a Ph.D. in Zoology from the University of California, Berkeley. The author or coauthor of over seventy-five journal articles, encyclopedia entries, book reviews, and contributed book chapters, Dr. Shuster collaborated with Michael J. Wade on the book *Mating Systems and Strategies* (2003). His research broadly concerns mating system evolution, male and female reproductive behavior, community and ecosystem genetics, and the population biology of marine organisms. His recent work focuses on the measurement of selection within and among species, and the maintenance of genetic variation in natural populations of marine crustaceans and terrestrial arthropods.

Amazing!

I have been teaching invertebrate zoology for over 20 years. At first I used the text by Kozloff to support my course, then when he retired I used the book by Barnes, et al. for many years. When that book slipped out of date I tried the text by Pechenik. Pechenik's book is very good, but his overall approach and treatment of taxa does not match the way I approach invertebrates as well as this edition of Brusca's book. BTW, through all my years of full-time teaching (starting in 1992) I consistently had a copy of the most recent text by Brusca on my shelf as a reference book, but this edition, IMO, finally nailed it as a teaching text. Editions 1 and 2 were probably better suited to advanced undergraduate students or graduate students than students taking their first serious look at invertebrates. This text, now co-authored by Richard Brusca, Wendy Moore, and Stephen Shuster, is much more readable and student friendly than past editions. In fact it's downright fantastic. I've been reviewing and reading it since my review copy arrived about a week and a half ago. The overall approach is comparative anatomy. This matches the way I prefer to teach my

course. Before I decided whether to adopt this textbook I took a careful look at its treatment of several taxa that have been problematic in the past...e.g., protozoans, Xenocoelomorpha, Myxozoa, Microsporidia, Sipincula, Echiura, and Chaetognatha. In every case this book's treatment of these and all taxa I have reviewed includes up-to-date systematics. I am also pleased to see the updated treatment and taxonomy of all eukarya in Chapter 3. This treatment provides an overview of the recently proposed five major groupings of Eukarya: Amoebozoa, Chromavleolata, Rhizaria, Excavata, and Opisthokonta (which includes all animals, fungi, vascular plants, and related groups). Way to go! This change eliminates the old Kingdom Protista, a sadly dysfunctional polyphyletic taxon. This change also makes this book particularly useful in providing an overview of the place of animals in the larger scope of the diversity of life on earth. I am impressed by the layout of each chapter. In most invert textbooks taxonomic information is relegated to the back of a chapter where students may or may not give it only a cursory glance. Brusca's team, however, puts the taxonomy right up front and does something particularly interesting and useful - they provide a brief history of the taxonomy of each major group. This provides an interesting context that allows students to see how science works as we uncover new observations and apply new methods, in this case improving the taxonomy and systematics of animal life. The chapter layout should also make this an easy text to teach from and learn from. For example, here are the major sections in the chapter on Phylum Mollusca: 1) Taxonomic History and Classification, 2) Box info listing characteristics of the phylum, 3) Abbreviated classification of the phylum, 4) Synopsis Molluscan groups, 5) The molluscan body plan (body wall, mantle and mantle cavity, shell, torsion, locomotion, feeding, digestion, circulation and gas exchange, excretion and osmoregulation, nervous system, sense organs, reproduction, development) and 6) Evolution and Taxonomy including a cladogram for the phylum. The addition of color photos to supplement the excellent stipple line drawings is also a hallmark of this title. I can't wait to get started using this textbook in the classroom. Luckily I teach invert zoology in the Spring term! Lastly, I have written my own laboratory manual to support the hands-on portion of my course, and I am currently embarking on producing a 2nd edition of that set of exercises. I am so impressed by Brusca's new textbook that I plan develop my lab manual so that it employs the same taxonomy and approach as this book so that the lecture and lab materials for my course will be as seamless as possible. 5 solid stars for what I believe is the gold standard of textbooks in this field of study

The book arrived on the time. It's great!

good

I am no fan of the lead author, I thought the previous edition of this book was about as bad as they come, and my review in 2003 lead the way at , where I said as much.

[https://smile..com/gp/customer-reviews/R11JJ45L74DFMH/ref=cm\\_cr\\_dp\\_d\\_rvw\\_ttl?ie=UTF8&ASIN=0878930973](https://smile..com/gp/customer-reviews/R11JJ45L74DFMH/ref=cm_cr_dp_d_rvw_ttl?ie=UTF8&ASIN=0878930973) I also didn't care much for the first edition, so you will probably realize I purchased the 3rd edition with more than a little trepidation. Anyway, I will be brief, other reviewers have discussed it in detail. The book arrived yesterday afternoon and I spent an enjoyable afternoon looking through it and snacking on a paragraph or two. One main comments: Comment 1). YOWZA!!!! - they hit it out of the park, and that's really hard to do when you're playing marbles! This book is what an invert text book should be, and it appears to be a good general reference on the subject as well; current up to last fall in most groups, I think. The change from the 2nd edition is absolutely marvelous, wonderful, surprising, and very, very welcome. To the authors, as an old invertebrate zoologist all can say is, "Thanks!!!" The only problem that I see is the price. Yea Gawds!!! \$150 for an Invert Text!!! And they don't even throw in a guided trip to the tropics to see some good inverts.

Great latest edition of the best invert zoo text in the field. Updated info on the rapidly evolving classification of all taxa as well as excellent coverage of all groups including new figures and text. Must have volume for invertebrate biologists.

Mhm

A little expensive...

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