



## Invertebrates - Second Edition [Hardcover]

By Richard C. Brusca, Gary J. Brusca

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Invertebrates, Second Edition presents a modern survey of the 34 animal phyla (plus the Protista) and serves as both a college course text and a reference on invertebrate biology. Thorough and up-to-date, it is organized around the themes of bauplans (body plans) and evolution (phylogenetics). Each phylum is organized in a standardized fashion, treating the systematics, bauplan (support and movement, feeding and digestion, circulation and gas exchange, excretion and osmoregulation, nervous system, reproduction and development), and phylogeny. Detailed classifications, phylogenetic trees, and references for all phyla are provided. Tables summarize each phylum's defining attributes. The text is accompanied by an abundance of detailed line drawings and new to this edition color photographs. Other key changes from the First Edition (1990) include:

- \* the incorporation of new developments in phylogenetics, developmental biology, and molecular genetics
- \* major changes at the highest levels among the invertebrates. Three phyla that appeared in the original book—Pentastomida, Pogonophora, and Vestimentifera—no longer exist, and a new phylum, Cycliophora, has been erected. Moreover, this edition discusses recent work in molecular systematics that has shaken classic views on animal classification.
- \* a large new section on "Kingdom Protista" (replacing "Protozoa") containing new contemporary views of these organisms (arranged in 18 phyla).

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- Sales Rank: #685013 in Books
- Published on: 2003-01-01
- Original language: English
- Number of items: 1
- Dimensions: 1.47" h x 8.74" w x 11.20" l, 1.10 pounds
- Binding: Hardcover
- 936 pages

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## **Editorial Review**

### **Review**

In terms of cost, completeness and scholarship, I find this text to be the best available. --Peter W. Glynn, Bulletin of Marine Science

The second edition of Invertebrates ... combines old and new with great success and makes a strong and useful contribution to modern perspectives on the invertebrates. ... this edition is strengthened by many attractive color photographs of diverse organisms or structures. ... This book's strengths lie in its phylogenetic approach, description and illustration of structural anatomy, and discussion of organism traits. ... I can highly ... recommend this book to all biologists and students interested in a modern perspective on invertebrate structure and evolutionary relationships." --Richard B. Emlet, Limnology and Oceanography Bulletin

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### **About the Author**

RICHARD C. BRUSCA is Director of Conservation and Research at the Arizona-Sonora Desert Museum, and also holds adjunct research positions at the University of Arizona and CIAD (Centro de Investigacion en Alimentacion y Desarrollo), Mexico. Dr. Brusca is a widely recognized invertebrate zoologist, marine biologist, and Sea of Cortez and Sonoran Desert naturalist. - The late GARY J. BRUSCA was Professor Emeritus at Humboldt State University. For 35 years he focused his research on the ecology and systematics of hyperiid amphipods, also writing on a variety of other subjects in journals and textbooks.

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