

"This book is a compound-eye view of the crustacean world, with each facet looking at one subset of forms and functions; the integration provides a unique advance in understanding of one animal group through the collective eyes of its most insightful students."

—Pete Jumars, Professor of Oceanography and Marine Science, University of Maine

"This timely volume offers a modern, well-illustrated, synthetic overview of functional anatomy in Crustacea, providing an important benchmark for the group; an invaluable source of information for both crustacean aficionados and general biologists."

—Rick Brusca, Executive Director Emeritus, Arizona-Sonora Desert Museum

"Indispensable to all biologists, ecologists, and environmentalists who seek to understand the how and why of the form and function of one of the most prominent groups of animals."

—Jim Carlton, Professor of Marine Sciences, Williams College

The Crustacea is one of the dominant invertebrate groups, displaying staggering diversity in form and function, and spanning the full spectrum of earth's environments. Crustaceans are increasingly used as model organisms in all fields of biology, as few other taxa exhibit such a variety of body shapes and adaptations to particular habitats and environmental conditions. *Functional Morphology and Diversity* is the first volume in *The Natural History of the Crustacea* series, and the first book in over twenty-five years to provide an overview of the functional morphology of crustaceans. An understanding of functional morphology is crucial to understanding the biology of this fascinating invertebrate group. Written by a group of internationally recognized experts studying a wide range of crustacean taxa and topics, this volume synthesizes current research in a format that is accessible to a wide scientific audience.

Les Watling is a biological oceanographer with strong interests in the biology of invertebrates, especially crustaceans and cnidarians. He currently works on deep-sea octocorals and their invertebrate symbionts, the taxonomy and evolution of cumaceans, and the functional morphology of feeding and digestion.

Martin Thiel is a marine biologist with strong interests in animal behavior and natural history. During the past 20 years, he has conducted studies on crustacean behavior ranging from evolution of parental care behaviors to mating interactions and anti-predator behaviors. He is also interested in dispersal ecology and biogeography, and in promoting the participation of citizen scientists in marine research (www.cientificosdelabasura.cl).

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