

Conceptual Breakthroughs in Evolutionary Ecology

The first major historical overview of achievements and discoveries in this scientific field.

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Although biologists recognize evolutionary ecology by name, many only have a limited understanding of its conceptual roots and historical development. *Conceptual Breakthroughs in Evolutionary Ecology* fills that knowledge gap in a thought-provoking and readable format.

Written by a world-renowned evolutionary ecologist, this book embodies a unique blend of expertise in combining theory and experiment, population genetics, and ecology. Following an easily accessible structure, this book encapsulates and chronologizes the history behind evolutionary ecology. It also focuses on the integration of age structure and density-dependent selection into an understanding of life history evolution.

Key Features:

- Covers over 60 seminal breakthroughs and paradigm shifts in the field of evolutionary biology and ecology
- Modular format permits ready access to each described subject
- Historical overview of a field whose concepts are central to all of biology and relevant to a broad audience of biologists, science historians, and philosophers of science

Comments from the Series Editor, John C. Avise:

The *Conceptual Breakthroughs* (CB) series of books by Elsevier aims to provide panoramic overviews of various scientific fields by encapsulating and rating each discipline's major historical achievements in an illuminating chronological format. Each volume in the CB series is authored by a world-leading expert who offers his or her personal insights on the major conceptual breakthroughs that have propelled a field forward to its current state of understanding. Intended for advanced undergraduates, graduate students, professionals, and interested laypersons, the dozens of essays in each CB book recount how and when a recognizable discipline achieved major advances along its developmental pathway, thereby offering readers a pithy historical account of how that field came to be what it is today.

This is the third volume in the CB series—all written in the same concise style and format—and all intended for an intellectually curious audience ranging from laypersons and beginning students to advanced practitioners. The first two books in the CB series were as follows:

Conceptual Breakthroughs in Evolutionary Genetics by John C. Avise (2014).

Conceptual Breakthroughs in Ethology and Animal Behavior by Michael D. Breed (2017).



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