

Pillars of Evolution: Fundamental Principles of the Eco-evolutionary Process, 2011, 272 pages, Douglas W. Morris, Per Lundberg, 0198568800, 9780198568803, Oxford University Press, 2011

Pillars of Evolution provides a fresh and provocative perspective on adaptive evolution. Readers new to the study of evolution will find a refreshing new insight that establishes evolutionary biology as a rigorous and predictive science, whilst practicing biologists will discover a provocative book that challenges traditional approaches. The book begins by leading readers through the mechanics of heredity, reproduction, movement, survival, and development. With that framework in place, it then explores the numerous ways that traits emerge from the interactions between genetics, development, and the environment. The key message is that adaptive changes in traits (and their underlying allelic frequencies) evolve through the traits' functions and their connection with fitness. The complex mappings from genes-to-traits-to-fitness are characterized in the structure of evolution. A single "structure matrix" describes why individuals vary in the values of adaptive traits, their ability to perform the function of those traits, and in the fitness they accrue. Fitness depends on how organisms interact with and perceive their environment in time and space. These relationships are made explicit in spatial, temporal, and organizational scale that also sets the stage for the crucially important role that ecology always plays in evolution. The ecological hallmarks of density- and frequency-dependent interactions allow the authors to explore new and exciting insights into evolution's dynamics. The theories and principles are then brought together in a final synthesis on adaptation. The book's unique approach unites genetic, development, and environmental influences into a single comprehensive treatment of the eco-evolutionary process.

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The Adaptive Landscape in Evolutionary Biology , Erik Svensson, Ryan Calsbeek, May 17, 2012, Science, 336 pages. The 'Adaptive Landscape' has been a central concept in population genetics and evolutionary biology since this powerful metaphor was first formulated by Sewall Wright in 1932.

Dispersal , Jean Clobert, 2001, Science, 452 pages. Habitat fragmentation and global climate change are the two major environmental threats to the persistence of species and ecosystems. The probability of a species surviving.

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Ecology of Populations , Esa Ranta, Per Lundberg, Veijo Kaitala, Feb 6, 2005, Nature, . The theme of the book is the distribution and abundance of organisms in space and time. The core of the book lies in how local births and deaths are tied to emigration and.

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Year in Evolutionary Biology, 2008, Volume 1133 , Carl D. Schlichting, Timothy A. Mousseau, Jul 15, 2008, Science, 452 pages. This volume features an important collection of review articles highlighting the top science and developments in the field of evolutionary biology. NOTE: Annals volumes are.

Discovering Evolutionary Ecology Bringing together ecology and evolution, Peter J. Mayhew, Jan 5, 2006, Science, 228 pages. Why are some kinds of organism species-rich and others species-poor? How do new species arise and why do some go extinct? Why do organisms grow and behave the way they do? This.

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Ecological Morphology Integrative Organismal Biology, Peter C. Wainwright, Stephen M. Reilly, Aug 15, 1994, Science, 375 pages. Ecological morphology examines the relation between an animal's anatomy and physiology“its form and function”and how the animal has evolved in and can inhabit a particular.

Evolutionary Ecology : Concepts and Case Studies Concepts and Case Studies, Charles W. Fox Associate Professor of Entomology University of Kentucky, Derek A. Roff Professor of Biology University of Kentucky, Riverside Daphne J. Fairbairn Professor of Biology both at The University of California, Sep 24, 2001, Science, 448 pages. Evolutionary Ecology simultaneously unifies conceptual and empirical advances in evolutionary ecology and provides a volume that can be used as either a primary textbook or a.

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Adaptation and Fitness in Animal Populations Evolutionary and Breeding Perspectives on Genetic Resource Management, Julius Van der Werf, Oct 17, 2008, Science, 272 pages. Fitness and adaptation are fundamental characteristics of plant and animal species, enabling them to survive in their environment and to adapt to the inevitable changes in this.

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