

Pillars of Evolution: Fundamental principles of the eco-evolutionary process, 2011, 280 pages, Douglas W. Morris, Per Lundberg, 0191626589, 9780191626586, 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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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.

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.

The Ecology of Adaptive Radiation , Dolph Schluter, Aug 31, 2000, , 296 pages. Adaptive radiation is the evolution of diversity within a rapidly multiplying lineage. It can cause a single ancestral species to differentiate into an impressively vast array.

Thrive in Ecology and Evolution , Alan Beeby, Ralph Beeby, Feb 14, 2013, Science, 232 pages. The Thrive in Bioscience revision guides are written to help undergraduate students achieve exam success in all core areas of bioscience. They communicate all the key concepts.

Theory of population genetics and evolutionary ecology an introduction, Joan Roughgarden, Jonathan Roughgarden, Aug 2, 1979, Science, 634 pages. This is a reprint of a classic which synthesizes population, genetics, and population genetics to form one of the first books on evolutionary ecology. Written by one of the.

The Evolution of Life Histories , Stephen C. Stearns, May 28, 1992, Science, 249 pages. This book introduces life history evolution to postgraduate students just beginning their research in population biology, ecology, or evolutionary biology. It discusses major.

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.

Conservation Biology: Evolution in Action , Scott P. Carroll, Charles W. Fox, Aug 15, 2008, Science, 392 pages. The main goal of this book is to encourage and formalize the infusion of evolutionary thinking into mainstream conservation biology. It reviews the evolutionary foundations of.

Macroecology , James H. Brown, Jun 1, 1995, Science, 269 pages. In Macroecology, James H. Brown proposes a radical new research agenda designed to broaden the scope of ecology to encompass vast geographical areas and very long time spans.

Phenotypic Plasticity : Functional and Conceptual Approaches Functional and Conceptual Approaches, Thomas J. DeWitt Department of Biology Texas A&M University, Department of Biology Arizona State University Samuel M. Scheiner Adjunct Professor, Dec 26, 2003, Science, 272 pages. Phenotypic plasticity is the range and process of variation in body plan and physiology. This book pulls together recent theoretical advances in phenotypic plasticity, as.

Evolutionary Conservation Biology , RΓ©gis FerriÈre, Ulf Dieckmann, Denis Couvet, Jun 10, 2004, Science, . As anthropogenic environmental changes spread and intensify across the planet, conservation biologists have to analyze dynamics at large spatial and temporal scales. Ecological.

Have Her Over for Dinner , Matt Moore, 2010, Biography & Autobiography, 85 pages. Let's face it, today we are inundated with articles about cooking, food, and wine in almost every part of our lives. From The Wall Street Journal to Playboy Magazine, you'd beSelected Hindi Short Stories , Rajendra Awasthi, 2003, Short stories, Hindi, 200 pages Dudley Probate Inventories (second Series) January 1605-April 1685; as Listed by E. A. Fry in the 'Index to Worcester Wills' (Worcester Historical Society, 1904), John Stephen Roper, 1966, Inventories of decedents' estates, 49 pages An indispensable writing guide for students in any of the social sciences-including sociology, anthropology, political science, women's studies, and history-the third edition.

Historico-naturalis Et Archaeologica Ex Dale Street The Natural History and Antiquities of Dale Street in the County of Lancashire, Robert Williams, Jack Aylward-Williams, Apr 27, 2010, Natural history, 24 pages. Inspired by Gilbert White's famous book The Natural History and Antiquities of Selborne of 1789, Robert Williams & Jack Aylward-Williams set out to explore, collect and present Church Hymnary , Oxford, 1984, Hymns, English, 720 pages

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Linear systems time domain and transform analysis, Michael O'Flynn, Eugene Moriarty, 1987, Science, 500 pages. This easily accessible text combines mathematical precision, technical detail, and sound pedagogy to give complete coverage of linear systems. Its parallel discussion of Executive Attraction , Barbara Goodwin, Nov 8, 2007, Fiction, . Executive Attraction Barbara Goodwin Who would have thought a freak spring snowstorm in New York would bring twice divorced flight attendant Jillian Stanton the man of her dreams Evolutionary Dynamics Exploring the Interplay of Selection, Accident, Neutrality, and Function, James Patrick Crutchfield, Peter Schuster, 2003, Science, 452 pages. This book presents a wide range of research on these cross-cutting topics. The workshop out of which they came brought together physicists and computer scientists, on the one In the major league playoffs, two former Rosemont teammates come head-to-head--Dave Green, Boston's new power hitter, and Magic Ramirez, Los Angeles' new pitching ace. Manning Hanline. Author of two directly related books: HUMAN BELIEF, RATIONALITY & SOCIAL ORGANIZATION: A CRITIQUE OF ORGANIZATION THEORY (728p., hardcover, 6 X 9, \$52.50, pub.

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