

Evolutionary ecology



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Evolutionary Ecology

S. S. Shvarts



Evolutionary Ecology:

Mayhew, 2006-01-05 This text provides a concise and readable introduction to evolutionary ecology a field of questions united by the intermix of evolutionary and ecological knowledge **Discovering Evolutionary Ecology** Peter J. Mayhew, 2006-01-05 This text provides a concise and readable introduction to evolutionary ecology a field of questions united by the intermix of evolutionary and ecological knowledge **Evolutionary Ecology of Parasites** Robert Poulin, 2011-06-27 Parasites have evolved independently in numerous animal lineages and they now make up a considerable proportion of the biodiversity of life Not only do they impact humans and other animals in fundamental ways but in recent years they have become a powerful model system for the study of ecology and evolution with practical applications in disease prevention Here in a thoroughly revised and updated edition of his influential earlier work Robert Poulin provides an evolutionary ecologist s view of the biology of parasites He sets forth a comprehensive synthesis of parasite evolutionary ecology integrating information across scales from the features of individual parasites to the dynamics of parasite populations and the structuring of parasite communities Evolutionary Ecology of Parasites presents an evolutionary framework for the study of parasite biology combining theory with empirical examples for a broader understanding of why parasites are as they are and do what they do An up to date synthesis of the field the book is an ideal teaching tool for advanced courses on the subject Pointing toward promising directions and setting a research agenda it will also be an invaluable reference for researchers who seek to extend our knowledge of parasite ecology and evolution **Predator Ecology** John P. DeLong, 2021 Predator prey interactions are ubiquitous govern the flow of energy up trophic levels and strongly influence the structure of ecological systems They are typically quantified using the functional response the relationship between a predator s foraging rate and the availability of food As such the functional response is central to how all ecological communities function since all communities contain foragers and a principal driver of the abundance diversity and dynamics of ecological communities The functional response also reflects all the behaviors traits and strategies that predators use to hunt prey and that prey use to evade predation It is thus both a clear reflection of past evolution including predator prey arms races and a major force driving the future evolution of both predator and prey Despite their importance there have been remarkably few attempts to synthesize or even briefly review functional responses This novel and accessible book fills this gap clearly demonstrating their crucial role as the link between individuals evolution and community properties representing a highly integrated and measurable aspect of ecological function It provides a clear entry point for students a refresher for more advanced researchers and a motivator for future research Predator Ecology is an advanced textbook suitable for graduate students and researchers in ecology and evolutionary biology seeking a broad up to date and authoritative coverage of the field It will also be of relevance and use to mathematical ecologists wildlife biologists and anyone interested in predator prey interactions

Evolutionary Ecology and Human Behavior Eric Alden Smith, 2017-09-29 required reading for anyone interested in the economy ecology and demography of human societies American Journal of Human Biology This excellent book can serve

both as a textbook and as a scholarly reference American Scientist **Conceptual Breakthroughs in Evolutionary Ecology** Laurence Mueller, 2019-11-19 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 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 **The Evolutionary Ecology of Animals** S. S. Shvarts, 2013-03-09 While translating this book I was in close communication with the author S S Shvarts Schwarz who read and commented on the entire translated manuscript In particular any ambiguities as to the identity of organisms described only by common names in the original text were removed because the author kindly supplied the Latin names in all such cases Common names are retained in the translation but the Latin names are also added where needed Some of the terminology used in the Russian is a transliteration from English words employed now more by European workers than Americans I have defined these terms or noted their more common equivalents used in current American literature where it seemed useful in the text A final chapter Recent Work on the Evolutionary Ecology of Animals is presented as Appendix II to the translation of the original text I have written this chapter in order to update the material presented in the original edition published in 1969 The chapter discusses important recent contributions relevant to the subject matter presented by Shvarts I would like to thank W Z Lidicker Jr and Y B Linhart for reading this final chapter and providing very helpful suggestions and comments I am particularly grateful to the author S S Shvarts for his careful reading of the translated manuscript

Evolutionary Ecology Charles W. Fox, Derek A. Roff, Daphne J. Fairbairn, 2001 This text unifies conceptual and empirical advances in evolutionary ecology and the focus is on current concepts in evolutionary ecology and the empirical study of these concepts The book is divided into five sections an overview of the major topics in evolutionary biology for ecologists sections on life histories behavior coevolution and adaptation to anthropogenic change Midwest **Evolutionary Ecology** Charles W. Fox, Derek A. Roff, Daphne J. Fairbairn, 2001-10-19 *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 supplemental reading in an advanced undergraduate or graduate course The focus of the book is on current concepts in evolutionary ecology and the empirical study of these concepts The editors have assembled a group of prominent biologists who have made significant contributions to this field They both synthesize the current state of knowledge and identify areas

for future investigation Evolutionary Ecology will be of general interest to researchers and students in both ecology and evolutionary biology Researchers in evolutionary ecology that want an overview of the current state of the field and graduate students that want an introduction the field will find this book very valuable This volume can also be used as a primary textbook or supplemental reading in both upper division and graduate courses seminars in Evolutionary Ecology

Evolutionary Ecology Anne E. Magurran, 2005 The Trinidadian guppy represents a uniquely tractable vertebrate system which has raised key questions in evolutionary ecology and supplied many of the answers This work discusses this study and incorporates significant new findings and insights **The Life of David Lack** Ted R. Anderson, 2013-06-01 Most people who have taken a biology course in the past 50 years are familiar with the work of David Lack but few remember his name Almost all general biology texts produced during that period have a figure showing the beak size differences among the finches of the Galapagos Islands from Lack's 1947 classic Darwin's Finches Lack's pioneering conclusions in Darwin's Finches mark the beginning of a new scientific discipline evolutionary ecology Tim Birkhead in his acclaimed book The Wisdom of Birds calls Lack the hero of modern ornithology Who was this influential yet relatively unknown man The Life of David Lack Father of Evolutionary Ecology provides an answer to that question based on Ted Anderson's personal interviews with colleagues family members and former students as well as material in the extensive Lack Archive at Oxford University

Eco-evolutionary Dynamics Andrew P. Hendry, 2016-12-06 In recent years scientists have realized that evolution can occur on timescales much shorter than the long lapse of ages emphasized by Darwin in fact evolutionary change is occurring all around us all the time This book provides an authoritative and accessible introduction to eco evolutionary dynamics a cutting edge new field that seeks to unify evolution and ecology into a common conceptual framework focusing on rapid and dynamic environmental and evolutionary change Andrew Hendry covers key aspects of evolution ecology and their interactions Topics range from natural selection adaptive divergence ecological speciation and gene flow to population and community dynamics ecosystem function plasticity and genomics Hendry evaluates conceptual and methodological approaches and draws on empirical data from natural populations including those in human disturbed environments to tackle a number of classic and emerging research questions He also discusses exciting new directions for future research at the intersection of ecology and evolution An invaluable guide for students and researchers alike Eco evolutionary Dynamics reveals how evolution and ecology interact strongly on short timescales to shape the world we see around us **An**

Introduction to Evolutionary Ecology, 1983 **The Evolutionary Ecology Of Plants** Jane H Bock, Yan B Linhart, G L Stebbins, Charles E Turner, 2019-06-25 This book presents a broad view of contemporary research in evolutionary plant ecology It illustrates the broad spectrum of life history stages which affect plant reproductive success in some fashion

Evolutionary Ecology Bernard Stonehouse, Christopher Perrins, 1979 [Evolutionary Community Ecology](#) Mark A. McPeck, 2017-08-29 Cover Title Copyright Dedication Contents Acknowledgments 1 Ecological Opportunities Communities

and Evolution 2 The Community of Ecological Opportunities 3 Evolving in the Community 4 New Species for the Community 5 Differentiating in the Community 6 Moving among Communities 7 Which Ways Forward Literature Cited Index *Theory of Population Genetics and Evolutionary Ecology* Joan Roughgarden, 1979 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 foremost authorities in the field it is designed as an introduction useful to readers at various levels from diverse backgrounds It features balanced readable coverage of both elementary and advanced topics that are essential to those interested in evolutionary biology ecology animal behavior sociobiology and paleobiology *Evolutionary Ecology and Human Behavior* Eric Alden Smith, 2017-09-29 required reading for anyone interested in the economy ecology and demography of human societies American Journal of Human Biology This excellent book can serve both as a text book and as a scholarly reference American Scientist **Microbial Ecology** J Vaun McArthur, 2006-02-01 Based on the thesis that insights into both evolution and ecology can be obtained through the study of microorganisms Microbial Ecology examines microbiology through the lens of evolutionary ecology Measured from a microbial perspective this text covers such topics as optimal foraging genome reduction novel evolutionary mechanisms bacterial speciation and r and K selection Numerous aspects of microbial existence are also discussed and include species competition predation parasitism mutualism microbial communication through quorum sensing and other The result is a context for understanding microbes in nature and a framework for microbiologists working in industry medicine and the environment Applies evolutionary ecological concepts to microbes Addresses individual population and community ecology Presents species concepts and offers insights on the origin of life and modern microbial ecology Examines topics such as species interactions nutrient cycling quorum sensing and cheating **Discovering Evolutionary Ecology** Peter J. Mayhew, 2006-01-05 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 book provides an introduction to evolutionary ecology the science that brings ecology and evolution together to help understand biological diversity In a concise readable format Peter Mayhew covers the entire breadth of the subject from life histories and the evolution of sex to speciation and macroecology Many emerging fields are also introduced such as metabolic ecology the evolution of population dynamics and the evolution of global ecology Discovering Evolutionary Ecology highlights the connections between these different subject areas and for the first time paints a picture of a truly integrated field It illustrates the research tools utilized and demonstrates how advances in one area can spur on developments elsewhere when scientists combine evolutionary and ecological knowledge To maximize accessibility the book assumes only a basic knowledge of biology includes a comprehensive glossary and contains almost no maths Each chapter provides suggestions for further reading and there is also an extensive reference list Ideal as an introduction to evolutionary ecology for undergraduates this book will also interest established researchers providing a broad and up to date context for their work

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