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Assembled here for the first time in one volume are forty classic papers that have laid the foundations of modern ecology. Whether by posing new problems, demonstrating important effects, or stimulating new research, these papers have made substantial contributions to an understanding of ecological processes, and they continue to influence the field today. The papers span nearly nine decades of ecological research, from 1887 on, and are organized in six sections: foundational papers, theoretical advances, synthetic statements, methodological developments, field studies, and ecological experiments. Selections range from Connell's elegant account of experiments with barnacles to Watt's encyclopedic natural history, from a visionary exposition by Grinnell of the concept of niche to a seminal essay by Hutchinson on diversity. Six original essays by contemporary ecologists and a historian of ecology place the selections in context and discuss their continued relevance to current research. This combination of classic papers and fresh commentaries makes Foundations of Ecology both a convenient reference to papers often cited today and an essential guide to the intellectual and conceptual roots of the field. Published with the Ecological Society of America.

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The first book-length exploration of behavioral mechanisms in evolutionary ecology, this ambitious volume illuminates long-standing questions about cause-and-effect relations between an animal's behavior and its environment. By focusing on biological mechanisms—the sum of an animal's cognitive, neural, developmental, and hormonal processes—leading researchers demonstrate how the integrated study of animal physiology, cognitive processes, and social interaction can yield an enriched understanding of behavior. With studies of species ranging from insects to primates, the contributors examine how various animals identify and use environmental resources and deal with ecological constraints, as well as the roles of learning, communication, and cognitive aspects of social interaction in behavioral evolution. Taken together, the chapters demonstrate how the study of internal mechanistic foundations of behavior in relation to their

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ecological and evolutionary contexts and outcomes provides valuable insight into such behaviors as predation, mating, and dispersal. Behavioral Mechanisms in Evolutionary Ecology shows how a mechanistic approach unites various levels of biological organization to provide a broader understanding of the biological bases of behavioral evolution.

A sweeping overview of key advances in the field of ecology over the latter half of the twentieth century. For three decades, *Foundations of Ecology*, edited by Leslie A. Real and James H. Brown, has served as an essential primer for graduate students and practicing ecologists, giving them access to the classic papers that laid the foundations of modern ecology alongside commentaries by noted ecologists. Ecology has continued to evolve, and ecologists Joseph Travis and Thomas Miller offer here a freshly edited guide for a new generation of researchers. The period of 1970 to 1995 was a time of tremendous change in all areas of this discipline--from an increased rigor for experimental design and analysis and the reevaluation of paradigms to new models for understanding, to theoretical advances. *Foundations of Ecology II* includes facsimiles of forty-six papers from this period alongside expert commentaries that discuss a total of fifty-three key studies, addressing topics of diversity, predation, complexity, competition, coexistence, extinction, productivity, resources, distribution, and abundance. The result is more than a catalog of historic firsts; this book offers diverse perspectives on the foundational papers that led to today's ecological work.

*Foundations of Biogeography* provides facsimile reprints of seventy-two works that have proven fundamental to the development of the field. From classics by Georges-Louis LeClerc Comte de Buffon, Alexander von Humboldt, and Charles Darwin to equally seminal contributions by Ernst Mayr, Robert MacArthur, and E. O. Wilson, these papers and book excerpts not only reveal biogeography's historical roots but also trace its theoretical and empirical development. Selected and introduced by leading biogeographers, the articles cover a wide variety of taxonomic groups, habitat types, and geographic regions. *Foundations of Biogeography* will be an ideal introduction to the field for beginning students and an essential reference for established scholars of biogeography, ecology, and evolution. List of Contributors John C. Briggs, James H. Brown, Vicki A. Funk, Paul S. Giller, Nicholas J. Gotelli, Lawrence R. Heaney, Robert Hengeveld, Christopher J. Humphries, Mark V. Lomolino, Alan A. Myers, Brett R. Riddle, Dov F. Sax, Geerat J. Vermeij, Robert J. Whittaker

The first history of population ecology traces two generations of science and scientists from the opening of the twentieth century through 1970. Kingsland chronicles the careers of key figures and the field's theoretical, empirical, and institutional development, with special attention to tensions between the descriptive studies of field biologists and later mathematical models. This second edition includes a new afterword that brings the book up to date, with special attention to the rise of "the new natural history" and debates about ecology's future as a large-scale scientific enterprise.

Why do species live where they live? What determines the abundance and diversity of species in a given area? What role do species play in the functioning of entire ecosystems? All of these questions share a single core concept—the ecological niche. Although the niche concept has fallen into disfavor among ecologists in recent years, Jonathan M. Chase and Mathew A. Leibold argue that the niche is an ideal tool with which to unify disparate research and theoretical approaches in contemporary ecology. Chase and Leibold define the niche as including both what an organism needs from its environment and how that organism's activities shape its environment. Drawing on the theory of consumer-resource interactions, as well as its graphical analysis, they develop a framework for understanding niches that is flexible enough to include a variety of small- and large-scale processes, from resource competition, predation, and stress to community structure, biodiversity, and ecosystem function. Chase and Leibold's synthetic approach will interest ecologists from a wide range of subdisciplines.

"Physics and chemistry are distinguished from biology by the way generalizations are codified into theories

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tested by observation and experimentation. This work enumerates generalizations in ecology. It describes how the practice of science, in general, and ecology specifically, yields theories and laws." -- BOOK PUBLISHER WEBSITE.

Community ecology has undergone a transformation in recent years, from a discipline largely focused on processes occurring within a local area to a discipline encompassing a much richer domain of study, including the linkages between communities separated in space (metacommunity dynamics), niche and neutral theory, the interplay between ecology and evolution (eco-evolutionary dynamics), and the influence of historical and regional processes in shaping patterns of biodiversity. To fully understand these new developments, however, students continue to need a strong foundation in the study of species interactions and how these interactions are assembled into food webs and other ecological networks. This new edition fulfills the book's original aims, both as a much-needed up-to-date and accessible introduction to modern community ecology, and in identifying the important questions that are yet to be answered. This research-driven textbook introduces state-of-the-art community ecology to a new generation of students, adopting reasoned and balanced perspectives on as-yet-unresolved issues. Community Ecology is suitable for advanced undergraduates, graduate students, and researchers seeking a broad, up-to-date coverage of ecological concepts at the community level.

The result of a lifetime in the field and in the classroom, *Chance and Change* challenges many of the tenets of establishment ecology. Charging that most of the environmental movement has ignored or rejected the changes in thinking that have infiltrated ecological theory since the mid 70s, William Drury presents a convincing case that disorder is what makes the natural world work, and that clinging to romantic notions of nature's grand design only saps the strength of the conservation movement. Drury's training in botany, geology, and zoology as well as his life-long devotion to work in the field gave him a depth and range of knowledge that few ecologists possess. This book opens our eyes to a new way of looking at the environment and forces us to think more deeply about nature and our role in it. *Chance and Change* is intended for the serious amateur naturalist or professional conservationist. Drury argues that chance and change are the rule, that the future is as unpredictable to other organisms as it is to us, and that natural disturbance is too frequent for equilibrium models to be useful. He stresses the centrality of natural selection in explaining the meaning of biology and insists the book and the laboratory must be checked at all times against the real world. Written in an easy, personal style, Drury's narrative comes alive with the landscape—the salt marshes, dunes, seashores, and forests—that he believed served as the best classroom. His novel approach of correlating landscape evolution with ecological principles offers a welcome corrective to discordance between what we observe in nature and what theory tells us we should see.

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