

Foundations Of Ecology Classic Papers With Commentaries

Foundations of Ecology II Foundations of Ecology Foundations of Ecology Classic Papers Foundations of Macroecology Ecology Bulletin of the Ecological Society of America A Green and Permanent Land Ecology & Field Biology Foundations of Biogeography Encyclopedia of Ecology The Population Ecology of Interest Representation Ecology Readings in Marine Ecology Recent Publications in Natural History Ecology, Potentials and Limitations Readings in Ecology New Zealand Journal of Ecology The American Naturalist Principles of Ecology Thomas E. Miller Leslie A. Real Leslie A. Real Felisa A. Smith Ecological Society of America Randal S. Beeman Robert Leo Smith Mark V. Lomolino Sven Erik Jørgensen Virginia Gray Manuel Carl Molles James Willard Nybakken Tom Fenchel Edward J. Kormondy Richard Brewer

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the classic papers that laid the foundations of modern ecology alongside commentaries by noted ecologists the period of 1970 to 1995 was a time of tremendous change in all areas of ecology from an increased rigor for experimental design and analysis to the reevaluation of paradigms new models for understanding and theoretical advances edited by ecologists thomas e miller and joseph travis 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 abundance and

conservation 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 like this book's 1991 predecessor foundations of ecology edited by leslie a real and james h brown foundations of ecology ii promises to be the essential primer for graduate students and practicing ecologists for decades to come

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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advances in ecological research was first published in 1962 and has become one of academic press most prestigious and successful series in 1999 the institute for scientific information released figures indicating this serial has an impact factor of 9.6 and a half life of 10.0 years ranking it first in the highly competitive category of ecology this volume continues to publish topical and important reviews and interprets ecology to include all material that contributes to our understanding of the field advances in ecological research presents a wide range of papers on all aspects of ecology topics include the physiology populations and communities of plants and animals as well as landscape and ecosystem ecology

macroecology is an approach to science that emphasizes the description and explanation of patterns and processes at large spatial and temporal scales some scientists liken it to seeing the forest through the trees giving the proverbial phrase an ecological twist the term itself was first introduced to the modern literature by James H. Brown and Brian A. Maurer in a 1989 paper and it is Brown's classic 1995 study macroecology that is credited with inspiring the broad scale subfield of ecology but as with all subfields many modern day elements of macroecology are implicit in earlier works dating back decades even centuries foundations of macroecology charts the evolutionary trajectory of these concepts from the species area relationship and the latitudinal gradient of species richness to the relationship between body size and metabolic rate through forty six landmark papers originally published between 1920 and 1998 divided into two parts macroecology before macroecology and dimensions of macroecology the collection also takes the long view with each paper accompanied by an original commentary from a contemporary expert in the field that places it in a broader context and explains its foundational role providing a solid coherent assessment of the history current state and potential future of the field foundations of macroecology will be an essential text for students and teachers of ecology alike

once patronized primarily by the counterculture and the health food establishment the organic food industry today is a multi billion dollar business driven by ever growing consumer demand for safe food and greater public awareness of ecological issues assumed by many to be a recent phenomenon that industry owes much to agricultural innovations that go back to the dust bowl era this book explores the roots and branches of alternative agricultural ideas in twentieth century america showing how ecological thought has challenged and changed agricultural

theory practice and policy from the 1930s to the present it introduces us to the people and institutions who forged alternatives to industrialized agriculture through a deep concern for the enduring fertility of the soil a passionate commitment to human health and a strong advocacy of economic justice for farmers randal beeman and james pritchard show that agricultural issues were central to the rise of the environmental movement in the united states as family farms failed during the depression a new kind of agriculture was championed based on the holistic approach taught by the emerging science of ecology ecology influenced the permanent agriculture movement that advocated such radical concepts as long term land use planning comprehensive soil conservation and organic farming then in the 1970s sustainable agriculture combined many of these ideas with new concerns about misguided technology and an over consumptive culture to preach a more sensible approach to farming in chronicling the overlooked history of alternative agriculture a green and permanent land records the significant contributions of individuals like rex tugwell hugh bennett louis bromfield edward faulkner russell and kate lord scott and helen nearing robert rodale wes jackson and groups like friends of the land and the practical farmers of iowa and by demonstrating how agriculture also remains central to the public interest especially in the face of climatic crises genetically altered crops and questionable uses of pesticides this book puts these issues in historical perspective and offers readers considerable food for thought

presenting an overview of all aspects of ecology this text includes information on evolution ecosystems theory plants animals biogeochemical cycles and global change the student package includes a free evolution lab from the biologylabs online series and a cd rom

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 compte 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 encyclopedia of ecology contains contributions from international experts on a diverse array of topics related to ecology it provides current and comprehensive information on many themes including behavioral ecology ecological processes ecological modeling ecological engineering ecological indicators ecological informatics ecosystems ecotoxicology evolutionary ecology general ecology global ecology human ecology and systems ecology the online version includes extensive internal cross referencing and dynamic linking to journal articles and abstract databases

an examination of how interest group communities are constructed and influence the functioning of democracy

this introductory general ecology text features a strong emphasis on helping students grasp the main concepts of ecology while keeping the presentation more applied than theoretical an evolutionary perspective forms the foundation of the entire discussion the book begins with the natural history of the planet considers portions of the whole in the middle chapters and ends with another perspective of the entire planet in the concluding chapter its unique organization of focusing only on several key concepts in each chapter sets it apart from the competition

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