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Currently, Talima works as a teacher at AF Crownheigts Elementary school. B.A. in Public Communication ... B.S. in Financial Economics, SUNY Binghamton; M.S. in Math Education, St. John's University.

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Biological sciences alum Mallika Kodavatiganti '21 shares how her

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Los Angeles Unified School District contains 785 schools and 495,255 students. The district's minority enrollment is 90%. Also, 79.0% of students are economically disadvantaged. The student body ...

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Though the Massachusetts Institute of Technology may be best known for its math, science and engineering ... as the College of Education and Human Ecology, Max M. Fisher College of Business ...

...

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Introduces the mathematics needed for mathematical ecology. Uses a class-tested, problem-solving approach.

Rave reviews for *Reconstructing Biology* "It is just the sort of book I would have expected from John Vandermeer who, for his entire professional life, has been a leading voice in trying to make people understand the true nature of the forces that are both inside and outside of human beings, and the correct relationship between human beings and the rest of nature." R. C. Lewontin Harvard

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University "For over a decade now we have been inundated by massive tomes on the nature of race by psychologists and sociologists poorly trained in genetics and biology. Now, at last, a preeminent biologist explains the true nature of race differences.... The combination of scientific clarity, political insight, and historical acumen makes this one of the most important books yet published on the subject of race and racism."—Barry Mehler Ferris State University "Given the frequency with which we meet simplistic claims today that social behaviors such as criminality, alcoholism, shyness, homosexuality, or infidelity are genetically determined...Reconstructing Biology should be required reading for all students in the social as well as natural sciences."—Garland E. Allen Washington University in St. Louis A biologist takes a probing look at some of the most important questions facing

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postmodern civilization In *Reconstructing Biology*, noted biologist and educator John Vandermeer explores the ways in which the science of biology has been and continues to be misinterpreted and misappropriated on behalf of some of the most pernicious doctrines and policies of the past 200 years. From the politics of genetics to the biology of IQ, *Reconstructing Biology* is must reading for anyone concerned about the role of science in the most important social and political issues of our time.

Ecology is capturing the popular imagination like never before, with issues such as climate change, species extinctions, and habitat destruction becoming ever more prominent. At the same time, the science of ecology has advanced dramatically, growing in mathematical and theoretical sophistication. Here, two leading

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experts present the fundamental quantitative principles of ecology in an accessible yet rigorous way, introducing students to the most basic of all ecological subjects, the structure and dynamics of populations. John Vandermeer and Deborah Goldberg show that populations are more than simply collections of individuals. Complex variables such as distribution and territory for expanding groups come into play when mathematical models are applied. Vandermeer and Goldberg build these models from the ground up, from first principles, using a broad range of empirical examples, from animals and viruses to plants and humans. They address a host of exciting topics along the way, including age-structured populations, spatially distributed populations, and metapopulations. This second edition of *Population Ecology* is fully updated and expanded, with additional exercises in virtually every chapter,

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making it the most up-to-date and comprehensive textbook of its kind. Provides an accessible mathematical foundation for the latest advances in ecology Features numerous exercises and examples throughout Introduces students to the key literature in the field The essential textbook for advanced undergraduates and graduate students An online illustration package is available to professors

This text reflects the immense current growth in interest in agroecology and changing approaches to it. While it is acknowledged that the science of ecology should be the basis of agroecological planning, many analysts have out-of-date ideas about contemporary ecology. Ecology has come a long way since the old days of "the balance of nature" and other romantic notions of how ecological systems function. In this context, the new science

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of complexity has become extremely important in the modern science of ecology. The problem is that it tends to be too mathematical and technical and thus off-putting for the average student of agroecology, especially those new to the subject. Therefore this book seeks to present ideas about ecological complexity with a minimum of formal mathematics. The book's organization consists of an introductory chapter, and a second chapter providing some of the background to basic ecological topics as they are relevant to agroecosystems (e.g., soil biology and pest control). The core of the book consists of seven chapters on key intersecting themes of ecological complexity, including issues such as spatial patterns, network theory and tipping points, illustrated by examples from agroecology and agricultural systems from around the world.

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This is the first introductory anthology on the philosophy of ecology edited by an ecologist and a philosopher. It illustrates the range of philosophical approaches available to ecologists and provides a basis for understanding the thinking on which many of today's environmental ideas are founded. Collectively, these seminal readings make a powerful statement on the value of ecological knowledge and thinking in alleviating the many problems of modern industrial civilization. Issues covered include: the challenges of defining scientific ecology, tracing its genealogy, and distinguishing the science from various forms of "ecological-like" thinking the ontology of ecological entities and processes selected concepts of community, stability, diversity, and niche the methodology of ecology (rationalism and empiricism, reductionism

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and holism) the significance of evolutionary law for ecological science

The continuing devastation of the world's tropical rain forest affects us all—spurring climate change, decimating biodiversity, and wrecking our environment's resiliency. Millions of worried people around the world want to do whatever it takes to save the forest that is left. But halting rain forest destruction means understanding what is driving it. In *Breakfast of Biodiversity*, John Vandermeer and Ivette Perfecto insightfully describe the ways in which such disparate factors as the international banking system, modern agricultural techniques, rain forest ecology, and the struggles of the poor interact to bring down the forest. They weave an alternative vision in which democracy, sustainable agriculture, and land

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security for the poor are at the center of the movement to save the tropical environment.

Community ecology: the study of the patterns and processes involving two or more species - has developed rapidly in the last two decades, driven by new and more sophisticated research techniques, advances in mathematical theory and modeling, and the increasing pressure on the environment wrought by humans. Once a purely descriptive science, it is now one of the most forward-looking areas of scientific inquiry. Morin skillfully guides the reader through the main tenets and central concepts of community ecology - competition, predation, food webs, indirect effects, habitat selection, diversity, and succession. In an attempt to introduce the reader to the most balanced coverage possible, Morin includes

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examples drawn from both the aquatic and terrestrial realm and from both plant and animal species. Balancing theory with experimentation and drawing on exciting new studies to complement the historical foundations of the discipline, he also stresses that both the empirical and theoretical approaches are necessary to drive ecology forward into the new millennium. The final chapter on applied community ecology ably demonstrates how community ecological processes have a wide environmental relevance. Although in its infancy, the application of community ecology to emerging problems in human-dominated ecosystems could mitigate problems as diverse as management strategies for important diseases transmitted by animals and the restoration and reconstruction of viable communities. Required reading for all students and practitioners interested in community phenomena,

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Community Ecology marks an important contribution to the development of this protean discipline. The first serious textbook for a decade on one of the keystone subdisciplines of ecology. Broad taxonomic and habitat coverage. Section on implications of community ecology for environmental issues.

The view of nature as 'red in tooth and claw', as a jungle in which competition and predation are the predominant themes, has long been important in both the scientific and popular literature. However, in the past decade another view has become widespread among ecologists: the idea that mutualisms--mutually beneficial interactions between species--are just as important as competition and predation. This book is one of the first to explore this theme. Ideas and theories applicable to all sorts of mutualisms are

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presented and, where appropriate, examined in the light of concrete data. Themes explored include: the organisms involved, both animal and plant; how specializations evolved once mutualisms formed; how mutualisms affect population dynamics and community structure; and the role of mutualisms in different environments. The book will be of special interest to ecologists and a wide range of biologists.

Based on principles of the conservation and optimization of biodiversity and of equity and sustainability, this book focuses on the ecology of the coffee agroecosystem as a model for a sustainable agricultural ecosystem. It draws on the authors' own research conducted over the last twenty years as well as incorporating the vast literature that has been generated on coffee

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agroecosystems from around the world. The book uses an integrated approach that weaves together various lines of research to understand the ecology of a very diverse tropical agroforestry system. Key concepts explored include biodiversity patterns, metapopulation dynamics and ecological networks. These are all set in a socioeconomic and political framework which relates them to the realities of farmers' livelihoods. The authors provide a novel synthesis that will generate new understanding and can be applied to other examples of sustainable agriculture and food production. This synthesis also explains the ecosystem services provided by the approach, including the economic, fair trade and political aspects surrounding this all-important global commodity.

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