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The study of genetic exchange resulting from natural hybridization, horizontal gene transfer, and viral recombination has long been marked

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by controversy between researchers holding different conceptual frameworks. Those subscribing to a doctrine of 'species purity' have traditionally been reluctant to recognise inferences suggesting anything other than a marginal role for non-allopatric divergence leading to gene transfer

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between different lineages. However, an increasing number of evolutionary biologists now accept that there is a growing body of evidence indicating the existence of non-allopatric diversification across many lineages and all domains of biological diversity.

Divergence with Genetic Exchange

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investigates the mechanisms associated with evolutionary divergence and diversification, focussing on the role played by the exchange of genes between divergent lineages, a process recently termed 'divergence-with-gene-flow'. Although the mechanisms by which such

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divergent forms of life exchange genomic material may differ widely, the outcomes of interest - adaptive evolution and the formation of new hybrid lineages - do not. Successive chapters cover the history of the field, detection methodologies, outcomes, implications for conservation

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programs, and the effects on the human lineage associated with the process of genetic transfer between divergent lineages. This research level text is suitable for senior undergraduate and graduate level students taking related courses in departments of genetics, ecology and

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and the book he had been reading, along with the entire idea of unending human progress. Mr. Malthus suggested that he write down his objections so that they could discuss them point-by-point. Not long after, Thomas returned with a rather long essay. His father was so impressed

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that he urged his son to have it published. And so, in 1798, appeared *An Essay on Population*, by British political economist and demographer THOMAS ROBERT MALTHUS (1766-1834). Though it was attacked at the time and ridiculed for many years afterward, it has remained one

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of the most influential works in the English language on the general checks and balances of the world's population and its necessary control. This is a replica of the 1826 sixth edition. Volume 1 includes: Book I: "Of the Checks to the Population in the Less Civilised Parts of the World and

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standards but indeed to enhance its coverage of Ecology. In the first edition, 34 years ago, it seemed acceptable for ecologists to hold a comfortable, objective, not to say aloof position, from which the ecological communities around us were simply material for which we sought a

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scientific understanding. Now, we must accept the immediacy of the many environmental problems that threaten us and the responsibility of ecologists to play their full part in addressing these problems. This fifth edition addresses this challenge, with several chapters devoted entirely to

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applied topics, and examples of how ecological principles have been applied to problems facing us highlighted throughout the remaining nineteen chapters. Nonetheless, the authors remain wedded to the belief that environmental action can only ever be as sound as the ecological

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principles on which it is based. Hence, while trying harder than ever to help improve preparedness for addressing the environmental problems of the years ahead, the book remains, in its essence, an exposition of the science of ecology. This new edition incorporates the results from more

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Hardy-Weinberg equilibrium, metapopulation dynamics, predator-prey interactions (Lotka-Volterra models), and many others. Building models using these exercises gives students "hands-on"

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includes standard mathematical formulae, and annotated step-by-step instructions for using this information to create a working model. Students then examine how changing the parameters

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Winner of the Los Angeles Times Book Prize On a desert island in the heart of the Galapagos archipelago, where Darwin received his first inklings of the theory of evolution, two scientists, Peter

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and Rosemary Grant, have spent twenty years proving that Darwin did not know the strength of his own theory. For among the finches of Daphne Major, natural selection is neither rare nor slow: it is

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taking place by the hour, and we can watch. In this dramatic story of groundbreaking scientific research, Jonathan Weiner follows these scientists as they watch Darwin's finches and come up with a new

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The Diversity of Fishes

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powerful blow against those who argued for the concept of group selection—the idea that evolution acts to select entire species rather than individuals.

Williams's famous work in favor of simple Darwinism over group

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selection has become a classic of science literature, valued for its thorough and convincing argument and its relevance to many fields outside of biology. Now with a new foreword by Richard Dawkins, *Adaptation*

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and Natural Selection is an essential text for understanding the nature of scientific debate. Global warming continues to gain importance on the international agenda and calls for action are heightening. Yet, there

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is still controversy over what must be done and what is needed to proceed. Policy Implications of Greenhouse Warming describes the information necessary to make decisions about global warming

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resulting from atmospheric releases of radiatively active trace gases. The conclusions and recommendations include some unexpected results. The distinguished authoring committee provides specific

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advice for U.S. policy and addresses the need for an international response to potential greenhouse warming. It offers a realistic view of gaps in the scientific understanding of greenhouse warming and how

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much effort and expense might be required to produce definitive answers. The book presents methods for assessing options to reduce emissions of greenhouse gases into the atmosphere, offset emissions, and assist

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humans and unmanaged systems of plants and animals to adjust to the consequences of global warming.

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