

Acces PDF Chapter 23 The  
Evolution Of Populations

# **Chapter 23 The Evolution Of Populations**

*This classic introductory text offers  
a balanced survey of ecology. It is  
best known for its vivid examples*

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***from natural history, comprehensive coverage of evolution and quantitative approach. Due to popular demand, this Fifth Edition Data Analysis Update brings twelve new data analysis modules that introduce students to ecological data and***

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***quantitative methods used by ecologists.***

***General Immunology provides a general overview of the immune system. It presents topics in immunology from all living groups, treating cells, tissues, organs, and organismal levels of biological***

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***organization. The book contains 23 chapters organized into eight sections. Section I serves as an introduction to immunology—a science, a sketch of its history, some of its more recent contributors, something about gathering facts, immunology***

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***journals, and the entire biomedical enterprise of which immunology is just a part. Section II is devoted to antigens while Section III examines the immune system in chordates and the ontogeny of the immune system. Section IV on cells of the immune system covers monocytes,***

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***macrophages, the three granulocytic types, and mast cells. Section V deals with phagocytosis and the interaction of lymphocytes. Section VI is devoted to antigens in relation to antibody synthesis, antigen-antibody interactions, immunoglobulin structure, and***

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***immunoglobulin assembly. Section VII on organs of the immune system examines bone marrow, thymus, spleen, lymph nodes, and lymphoid aggregations. Section VIII discusses the evolution of the immune system. This text was written for advanced***

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***undergraduates. However, its comprehensiveness makes it useful to immunologists and biologists at all levels as well as medical students and clinicians.***

***Custom the Evolution of Management Thought Fourth Edition Genome The Autobiography***



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***of a Species in 23 Chapters Harper Collins***

***It was perceived that there was scarcity of a good book on Vertebrate Zoology and Evolution for the students of Hons. and Post-Graduate classes of Indian Universities. This book has been***

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***written in such a way that in addition to the fundamentals, other important aspects have also been covered so far. Descriptions from Cyclostomes to Mammals in the vertebrate series, and, selected Topics in Evolution have been incorporated in this book, which are***

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***very useful for the students reading Zoology in Degree Colleges and Universities all over India.***

***Contents: Chapter 1: The Chordata, Chapter 2: Class - Cyclostomata, Chapter 3: Pisces (Fishes), Chapter 4: Class - Amphibia, Chapter 5: Class - Reptilia, Chapter 6: Class -***

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***Aves, Chapter 7: Class - Mammalia, Chapter 8: Darwinism and Neo-Darwinism, Chapter 9: Speciation and Species Concept, Chapter 10: Modern Synthetic Theory, Chapter 11: Isolation and Its Role in Evolution, Chapter 12: Lamarckism and Neo-Lamarckism, Chapter 13:***

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***Variations, Recapitulation Theory, Genetic Equilibrium and Hardy Weinberg Law of Equilibrium, Chapter 14: Adaptations, Chapter 15: Fossils and Geological Time Scale, Chapter 16: Animal Distribution, Chapter 17: Evolution of Horse, Chapter 18: Evolution of***

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***Elephant, Chapter 19: Evolution of Camel, Chapter 20: Evolution of Man, Chapter 21: Micro-, Macro- and Mega-Evolution, Chapter 22: Mutations, Chapter 23: Zoogeographical Regions. Custom the Evolution of Management Thought Fourth***

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***Edition***

***Rhythms of Insect Evolution***

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***Ssg- Human Biology 6E Student Study Guide***

***Biology***

***A New Revelation***

A first step in any drought management

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system is to monitor the state and the evolution of the drought. This study addresses the problem of nonexistent operational drought monitoring systems and presents a new methodology for monitoring the evolution and severity of drought with the new, Combined Drought Index (CDI). It is based on the fact that



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drought is a natural phenomenon created by a combination of several factors, such as deficiency in rainfall amount, persistence of below average rainfall, temperature excess and soil moisture characteristics. By combining the factors in the preceding text, the CDI compares present conditions with multiyear average

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(normal) conditions for the same time period. The methodology was applied at selected locations of different climate zones in Kenya. The results were compared with available official records of drought events (impacts), showing a very good positive relationship between the two. An attempt to detect the long-

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term trends of drought events using the CDI indicates that there is an increasing trend of drought events in the country, while the drought severity is not necessarily getting worse in all stations. The CDI method also revealed the possibility of drought early warning and drought-related climate change analysis in

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Kenya.

Governance in the Middle East is topic of interest to scholars, activists and policy makers. The currently proposed book is intended to present the first comprehensive framework of the question of governance in the Middle East in its various forms and manifestations:

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political, economic, and government performance. This study will supply the context that is missing in the existing literature on, perhaps, the last bastion of authoritarianism in the world. Proposed Contents This book will be structured into two parts: Part I (Chapters 1-11) provides some theoretical background and analyzes

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the patterns and challenges of governance in the Middle East, providing some global context; Part II (12-Conclusion) will examine specific cases in selected countries and regions in the Middle East. Part I: Theory and Context Chapter 1 will be an introduction describing the main aspects of the book and highlighting the

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main points made by the contributors. Chapter 2 will present the theoretical dimensions of governance and review the "state of the discipline" and the latest trends in the literature on governance. The author of this chapter will be an authority in the subject of governance, but does not have to be necessarily a Middle East

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scholar. Chapter 3 will examine the general political trends in the Middle East and provide a historical background: nation-state formation, colonial and postcolonial experiences in the Middle East and the nature of the Middle Eastern political environment at the present time. Chapter 4 will look into the economic



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aspects of governance in the Middle East and contextualize the economic challenges and deficiencies affecting the region.

Chapter 5 will examine the areas of success and failure in government performance in the region and the aspects of human development. Chapter 6 will look into the role of religion in shaping the

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governance in the Middle East. After all, most Middle Eastern governments declare Islam as the State religion, while a few consider Islam the source of governance and legislation (e.g. Saudi Arabia and Iran). Chapter 7 will shed light on the sectarian division among Muslims (Shi'a vs. Sunnis) and the significance of this

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division for the governance, particularly in countries where the ruling groups belong to a different sect than the governed, such as Bahrain, Saudi, Kuwait and Lebanon. Chapter 8 will examine relation between the state of governance in the Middle East and the progress of human rights, or lack thereof. The Middle East remains one of

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the most troubling regions on human rights and the respect for human dignity. All of the region's governments are heavily implicated in very serious violations of the most basic in human rights. Chapter 9 will focus on the status of women in the Middle East and the governmental performance in the region in

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relevance to women rights and status. The recent years have witnessed many positive changes in this regard, but there remains a lot of work to be done, which is going to be outlined in this chapter. Chapter 10 will look into the role of oil and other natural sources in shaping the economic and political performance of Middle Eastern

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governments. Also, it will shed light on the various ways these governments distribute the revenues (rents) from these resources and how they use them, or don't, in the development of their countries or, in most cases, on the military and state oppressive machine. Chapter 11 will examine the role of international

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organizations and trade agreements on the performance of governments and whether or not such factors influence or shape governance in the region. It is well-known that Turkey has changed many of its laws and social policies in response to the demands of EU members and in hopes of being admitted into the EU. The chapter

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will elaborate on this and similar cases throughout the region. Part II: Case Studies Chapter 12 will examine the case of Iraq. The country is experiencing perhaps the most dramatic scenarios of governance in the region. This chapter will shed light on the unfolding political process and the struggle of Iraqis to forge



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a path toward democracy in a region determined to resist any political change within its boundaries. Key issues: Power-sharing, pluralism, federalism, ethnic and sectarian conflict, trust-building, corruption and political violence. Chapter 13 will examine the case of Iran. Thirty years after the Islamic Revolution, Iran is

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entering into a soul-searching phase in its history. The ongoing battle between the reformers and the hardliners is only a sign on the larger problem of governance. A majority of Iranians have no personal recollection of the problems that led to the Revolution. It is vitally important that the government changes its claims to

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legitimacy from being the force that toppled the Shah to being the provider of prosperity and development of the country and its young population. Key issues: Political reform, human rights, reconciliation with the West, allocation of resources and services. Chapter 14 will examine the case of Egypt. The country is

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facing an unknown future with President Mubarak reaching advanced age. The debate over his succession is dividing the country in a dramatic way. Egypt is also a country with depleted infrastructure and an ever-shrinking middle class. If the country falls into a violent cycle after the looming departure of Mubarak, the entire

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region could fall into the abyss. Key issues: Succession of Mubarak, economic performance, services, religious extremism (Muslim Brotherhood) and Nationalism. Chapter 15 will examine the case of Israel. While politically different from its neighbors, Israel is sinking fast into the same problems that plague the

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Middle East. The country suffers political corruption and many leadership crises. The government is trying to redefine the identity of the state, which is going to create a showdown with the fast-growing non-Jewish Israeli population, and there is the problem of the government's inability to conclude peace with Israel's neighbors.

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Key issues: corruption, violence and security. Chapter 16 will examine the case of Saudi Arabia. The country is perhaps the most authoritarian regime in the world. The lack of individual liberties and abuses of human rights are the main problems. The government's treatment of its Shia subjects (approx. 12% of the population)

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as second-class residents is extremely troubling. The country does not have a meaningful public participation and the Royals who run the government have no accountability to anyone. Key issues: human rights, religious freedom, political reform, public participation. Chapter 17 will examine the case of Bahrain. This



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small country in the Persian Gulf is facing many challenges. Like Iraq before 2003, it is a country with a clear Shia majority ruled by a small Sunni minority. The Shia are excluded from the government (they were allowed to run for the parliament in the last election for the first time), the military and many other important arenas.

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The government uses the naturalization of Sunnis as a political tool to change the demographic balance in the country. Key issues: political reform, popular participation, naturalization, human rights. Chapter 18 will examine the case of Yemen. The current struggle over government performance and fairness

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toward the South has given rise to the calls for separation of the two parts of Yemen. Also, there is the issue of religious freedom, which cases the ongoing war with the Houthi faction that accuses the government of making alliance with the Saudi government and the Sunni extremists in the country to form an

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existential threat to Shi'ism. Yemen is also a country with many ungoverned spaces and the governance in the "governed" areas is abysmal. Key issues: political violence, human and religious rights, terrorism, tribalism and poverty. Chapter 19 will examine the case of Turkey and its impressive rise as a model

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for a strong Muslim nation which tries to reconcile Islam and democracy. Turkey's longstanding problems with social rights, especially of its 12 million Kurds, have always been a formidable challenge to the image of the nation. However, the country's bid to join the EU has forced many changes that inadvertently helped

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the government's international standing. Chapter 20 will examine the case of Syria and the influence of the Arab nationalist ideology on keeping the country as one of the most oppressive regimes in the region. Also examined will be the affect of Syrian-Israeli conflict on the country's governance. Chapter 21 examines the case

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of Lebanon. This country which witnessed more governance challenges than any other in the region makes a very interesting case study. The country's sectarian politics and the client-patron relations and loyalties among the various Muslim and Christian elements of society have undermined the country's potential

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to become a fully democratic state. Chapter 22 will focus on the case of Sudan. This country has been in the center of world attention because of the internal conflict and the accusations of serious violations of human rights and the rise of separatist movements that receive much foreign sympathy and support. The



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country has missed many opportunities to attain social and political reconciliation, but it should not be considered a lost cause. There is a lot of potential in the country, especially when we consider the vibrant politics of government and opposition. Chapter 23 will examine the case of Jordan and the role of the

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uniqueness of the regime in creating relative social and political stability.

Unlike the most of the governments in the region, the Jordanian Monarchy keeps the government as a convenient buffer between the Royals and the people. When popular sentiments turn very negative, the King, acting as the good cop, dismisses

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the government and orders the formation of a new one. Also, Jordan has achieved some good success in absorbing the Islamist groups into the political system, but not without challenges. The chapter will also focus on the Palestinian factor – Palestinians make more than half of the Jordanian population. Chapters 24, 25 &

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26 will examine the Maghreb states (Morocco, Algeria and Tunisia). These states face many challenges in their governance: separatism, terrorism and the government oppressive history in Morocco; the Islamism challenge, internal war in the tribal areas and ethnic conflict in Algeria; and the stifling of personal

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freedom and liberties in Tunisia in the name of secularism and the war on extremism are all challenges that need to be highlighted in a chapter about each country. Chapter 27 will focus on governance in Libya. Having ruled the country for forty-seven years, the Libyan president is the dean of Middle Eastern

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dictators. He has taken his country through all kinds of political adventures. The rule through popular committees is a unique system that gives Col. Mu'ammarr Qadhafi the opportunity to oppress through popular participation and acquiescence. Chapter 28 will focus on the governance in the United Arab Emirates. This confederation of

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seven emirates has witnessed some excellent success in the economic and infrastructural development, especially in Dubai, which competes with the richest cities in the world, thanks to the energy and vision of its Emir, Muhammad b. Rashid. While it is generally considered much better than its fellow Gulf States, the

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UAE has its own challenges, especially in light of the absence of unified system of governance, because each emirate has the autonomy to shape its internal affairs. Chapter 29 will examine the governance and, in certain cases, lack thereof in the countries that form the Horn of Africa, i.e. Somalia, Eritrea and Djibouti. These



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countries face some tremendous challenges in the areas of refugees, resources, stability and ethnic & conflict. The failure of these states, as seen in the case of Somalia, can make the problems of security in the whole region much worse than it is now. Famine and anarchy have already led to wars, piracy and the flood of

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refugees, not to say much about the humanitarian catastrophes in the region. This chapter will highlight the problems of governance in these often forgotten countries. Chapter 30 will be a conclusion and final remarks on the general framework of the regional governance and the way forward. This book is aimed at a

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wide variety of audience. Policy makers, policy analysts, as well as journalists will benefit from the history and analysis that will be presented in the book. Also, academics will find in the book important materials for research and class work. Professors teaching courses on US Foreign policy, Middle East, International

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Relations, Comparative Politics and many related fields will find the book a very suitable choice for their students to read. Given the media and general public's interest in the Middle East and the Middle East, the book will also appeal to a wide range of educated readers in the United States, the United Kingdom and many

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other countries world-wide.

This edited research monograph brings together contributions from computer scientists, biologists, and engineers who are engaged with the study of evolution and how it may be applied to solve real-world problems. It also serves as a Festschrift dedicated to Erik D. Goodman,

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the founding director of the BEACON Center for the Study of Evolution in Action, a pioneering NSF Science and Technology Center headquartered at Michigan State University. The contributing authors are leading experts associated with the center, and they serve in top research and industrial

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establishments across the US and worldwide. Part I summarizes the history of the BEACON Center, with refreshingly personal chapters that describe Erik's working and leadership style, and others that discuss the development and successes of the center in the context of research funding, projects, and careers.

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The chapters in Part II deal with the evolution of genomes and evolvability. The contributions in Part III discuss the evolution of behavior and intelligence. Those in Part IV concentrate on the evolution of communities and collective dynamics. The chapters in Part V discuss selected evolutionary computing



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applications in domains such as arts and science, automated program repair, cybersecurity, mechatronics, and genomic prediction. Part VI deals with evolution in the classroom, using creativity in research, and responsible conduct in research training. The book concludes with a special chapter from Erik Goodman, a

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The Experimental Analysis of Distribution and Abundance

***Viruses: From Understanding to Investigation provides***

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***work. Employs a comparative strategy to emphasize unique structural and molecular characteristics that inform transmission, disease processes, vaccine strategies and host responses Presents a review of host cell and***

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***molecular biology and the immune system Features topical areas of research, including genomics in virus discovery, the virome, and beneficial interactions between viruses and their hosts Includes text boxes***

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Covers learning objectives for each chapter, methods and advances, question sets, quizzes and a glossary  
Olson has prepared a comprehensive, annotated***

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***bibliography of the history of cancer. The emphasis of this work is not so much on the purely medical aspects of cancer as on the historical documentation of increasing knowledge about its etiology, pathology, epidemiology,***

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***forms and manifestations, and the men and women who have distinguished themselves in the study and treatment of the disease. The citations include books, articles in scholarly and general periodicals, medical and general***

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***the definition of a gene has evolved, the definition of organic evolution itself is in need of some modification, the number of known mechanisms of evolutionary change has increased dramatically, and the***

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***emphasis placed on opportunity and contingency has increased. This book synthesizes these changes and presents many of the novel topics in evolutionary theory in an accessible and thorough format. This book is an ideal,***

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***biology. Discusses many of the mechanisms responsible for evolutionary change Includes an appendix that provides a brief synopsis of these mechanisms with most discussed in greater detail in respective chapters Aids***

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***readers in their organization and understanding of the material by addressing the basic concepts and topics surrounding organic evolution Covers some topics not typically addressed, such as opportunity, contingency,***

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*27: Principles and Theories of Evolution Definitions Classical Theories of Evolution Applications of Classical Theory Evolutionary Factors Speciation Short Answer Questions for Review Chapter*

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*28: Evidence for Evolution  
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*Fossils Distinguishing  
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*31: Animal Behavior Types of Behavioral Patterns  
Orientation Communication  
Hormonal Regulation of Behavior Adaptive Behavior  
Courtship Learning and Conditioning Circadian Rhythms Societal Behavior*

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*Short Answer Questions for Review Index WHAT THIS BOOK IS FOR* Students have generally found biology a difficult subject to understand and learn. Despite the publication of hundreds of textbooks in

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*this field, each one intended to provide an improvement over previous textbooks, students of biology continue to remain perplexed as a result of numerous subject areas that must be remembered and*

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*correlated when solving problems. Various interpretations of biology terms also contribute to the difficulties of mastering the subject. In a study of biology, REA found the following basic reasons*

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*underlying the inherent difficulties of biology: No systematic rules of analysis were ever developed to follow in a step-by-step manner to solve typically encountered problems. This results from numerous*

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*different conditions and principles involved in a problem that leads to many possible different solution methods. To prescribe a set of rules for each of the possible variations would involve an enormous number*

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*of additional steps, making this task more burdensome than solving the problem directly due to the expectation of much trial and error. Current textbooks normally explain a given principle in a few pages*

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*written by a biologist who has insight into the subject matter not shared by others. These explanations are often written in an abstract manner that causes confusion as to the principle's use and application.*



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*Explanations then are often not sufficiently detailed or extensive enough to make the reader aware of the wide range of applications and different aspects of the principle being studied. The numerous possible variations*

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*of principles and their applications are usually not discussed, and it is left to the reader to discover this while doing exercises.*

*Accordingly, the average student is expected to rediscover that which has*

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*long been established and practiced, but not always published or adequately explained. The examples typically following the explanation of a topic are too few in number and too simple to enable the student*

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*to obtain a thorough grasp of the involved principles. The explanations do not provide sufficient basis to solve problems that may be assigned for homework or given on examinations. Poorly solved examples such*

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*as these can be presented in abbreviated form which leaves out much explanatory material between steps, and as a result requires the reader to figure out the missing information. This leaves the reader with an*

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*impression that the problems and even the subject are hard to learn - completely the opposite of what an example is supposed to do. Poor examples are often worded in a confusing or obscure way. They might not*

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*state the nature of the problem or they present a solution, which appears to have no direct relation to the problem. These problems usually offer an overly general discussion - never revealing how or what is to*

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*be solved. Many examples do not include accompanying diagrams or graphs, denying the reader the exposure necessary for drawing good diagrams and graphs. Such practice only strengthens understanding by simplifying*



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*and organizing biology processes. Students can learn the subject only by doing the exercises themselves and reviewing them in class, obtaining experience in applying the principles with their*

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*different ramifications. In doing the exercises by themselves, students find that they are required to devote considerable more time to biology than to other subjects, because they are uncertain with regard to*

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*the selection and application of the theorems and principles involved. It is also often necessary for students to discover those "tricks" not revealed in their texts (or review books) that make it possible*

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*to solve problems easily. Students must usually resort to methods of trial and error to discover these "tricks," therefore finding out that they may sometimes spend several hours to solve a single problem. When*

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*reviewing the exercises in classrooms, instructors usually request students to take turns in writing solutions on the boards and explaining them to the class. Students often find it difficult to explain in a*

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*manner that holds the interest of the class, and enables the remaining students to follow the material written on the boards. The remaining students in the class are thus too occupied with*

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*copying the material off the boards to follow the professor's explanations. This book is intended to aid students in biology overcome the difficulties described by supplying detailed illustrations of the*

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*solution methods that are usually not apparent to students. Solution methods are illustrated by problems that have been selected from those most often assigned for class work and given on examinations. The problems*



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*are arranged in order of complexity to enable students to learn and understand a particular topic by reviewing the problems in sequence. The problems are illustrated with detailed, step-by-step*

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*explanations, to save the students large amounts of time that is often needed to fill in the gaps that are usually found between steps of illustrations in textbooks or review/outline books. The staff of REA*

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*considers biology a subject that is best learned by allowing students to view the methods of analysis and solution techniques. This learning approach is similar to that practiced in various scientific laboratories,*

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*particularly in the medical fields. In using this book, students may review and study the illustrated problems at their own pace; students are not limited to the time such problems receive in the classroom.*

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*progression, as well as to lecturers in evolutionary medicine Functions as both an introduction to cancer and evolution and a review of the current research on this burgeoning, exciting field, presented by an*

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