

Exploring The Diversity Of Life

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Biology

Exploring the Diversity of Life

Biology

Exploring the Diversity of Life

Biology: Exploring the Diversity of Life is uniquely designed for today's Canadian biology student. The intention of this introductory biology text is to capture students' imaginations and evoke a sense of curiosity about the vast world of biology. To facilitate immediately immersing students in biology, the text puts the review of chemistry and biochemistry in a distinct section called the Purple Pages, to be easily referenced when needed. The authors have taken great care to encourage critical thinking and learning with engaging visuals and by integrating the material across the book's chapters. With a focus on the Canadian biology student, the text approaches the material with a readable style that instills a sense of wonder by using examples from across the spectrum of biodiversity, showcasing Canadian research and innovation, and highlighting an array of career options that stem from biology. The text engages students in the science and future of biological science with effective pedagogy, streamlined content, a comprehensive MindTap, and a focus on research and experimentation that creates a complete biology learning solution.

Biology

Exploring the Diversity of Life

Biology: Exploring the Diversity of Life covers all the core concepts professors need their students to master before going on to upper level courses in a concise and accessible fashion. It also gives the historical precedent for all that we know now, as well as providing information on current research and modern molecular tools that have allowed us to ask and answer questions we never thought possible 10 years ago. The final piece of the puzzle and also the most unique feature is that, through the "Unanswered Questions" box, the text gives students a perspective on what researchers are working on for the future and what the impact will be to the world when these discoveries are made. Biology: Exploring the Diversity of Life goes beyond what normal Biology textbooks have done. Not only has it been designed with the Canadian student in mind but it has been built with the help of Canadian students. With new features such as "Molecule Behind Biology", "People Behind Biology" and "Life on the Edge", Canadian students will enjoy learning Biology and instructors will enjoy teaching it.

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BIOLOGY: EXPLORING THE DIVERSITY OF LIFE VOLUME 2, 3rd ed. (Canadian ed.) Nelson Education

Loosleaf

Biology: Exploring the Diversity of Life 4e

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Exploring the Diversity of Life

Biodiversity

Exploring Values and Priorities in Conservation *John Wiley & Sons*

Biodiversity has become a buzzword in the environmental movement and in science, and is increasingly being taught in university degree courses. This new text is designed as a primer, giving non-specialists an introduction to the historical context, current debates, and ongoing research in this subject.

Hybrid Governance, Organization and Society

Exploring Diversity of Institutional Life *Routledge*

Intuitively, organisations can easily be categorised as ‘public’ or ‘private’. However, this book questions such a black and white dichotomy between public and private, and seeks a deeper understanding of hybrid organisations. These organisations can be found at micro, meso and macro levels of societal activity, consisting of networks between companies, public agencies and other entities. The line between these two realms is increasingly blurred — giving rise to hybrid organisations. Governing Hybrid Organisations presents an engaging discussion around hybrid organisations, highlighting them as important and fascinating examples of modern institutional diversity. Chapters examine the changing landscape of service delivery and the nature and governance of hybrid organisations, using international examples and cases from different service contexts. The authors put forward a clear analytical framework for understanding hybrid governance, looking at strategy and performance management. This text will be valuable for students of public management, public administration, business management and organisational studies, and will also be illuminating for practising managers.

The Diversity of Life *W. W. Norton & Company*

This classic by the distinguished Harvard entomologist tells how life on earth evolved and became diverse, and now, how diversity and life are endangered by us, truly. While Wilson contributed a great deal to environmental ethics by calling for the preservation of whole ecosystems rather than individual species, his environmentalism appears too anthropocentric: "We should judge every scrap of biodiversity as priceless while we learn to use it and come to understand what it means to humanity." And: "Signals abound that the loss of life's diversity endangers not just the body but the spirit." This reprint of the 1992 Belknap Press publication contains a new foreword. Annotation copyrighted by Book News, Inc., Portland, OR

Many

The Diversity of Life on Earth *Candlewick Press*

The more we study the world around us, the more living things we discover every day. The planet is full of millions of species of plants, birds, animals, and microbes, and every single one including us is part of a big, beautiful, complicated pattern. When humans interfere with parts of the pattern, by polluting the air and oceans, taking too much from the sea, and cutting down too many forests, animals and plants begin to disappear. What sort of world would it be if it went from having many types of living things to having just one?--

Loss of Biodiversity *Rowman & Littlefield*

Loss of Biodiversity introduces readers to the important concepts for understanding the environmental challenges and consequences of the declining diversity of life on the planet. Contributions from scientists, and academics in the social sciences and humanities provide readers with an initial "tool kit" for understanding the concepts central to their disciplinary perspective and the multi-dimensional aspects of the loss of biodiversity.

A Look at Life

Exploring the Diversity of Organisms *Kendall/Hunt Publishing Company*

Ghost Bears

Exploring The Biodiversity Crisis *Island Press*

Looks beyond individual endangered species to examine the relationship between our actions and complex ecosystems, focusing on species loss and habitat destruction

Concepts of Biology

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand.We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Negotiating Families and Personal Lives in the 21st Century

Exploring Diversity, Social Change and Inequalities *Routledge*

This book is a vital new resource in the sociological study of family life in the 21st century. The chapters in this volume explore a diverse range of family and intimate life experiences, such as personal choices about reproduction and how life choices and family forms are mediated by factors including geographical location, race, ethnicity, sexuality, gender, income and government policy. Through a series of evidence-based chapters, leading sociologists explore a diverse range of family and intimate life experiences and the contexts within which they are lived and experienced. Each chapter delves into the lives and experiences of people whose choices in some way seem to disrupt normative and traditional ideas of family, parenting and childhood. Family patterns and experiences of living apart together, troubled families, children in care, culture, coupledom, same-sex families and digital technology are covered and examined innovatively through theoretical engagement. Chapters also incorporate innovative technologies and their use within family spaces that shape the nature of human relationships and interactions. These negotiations within the family are globally contextualised within the political and ideological frameworks of societies at any given moment in time. The work recognises the sensitivity of family and personal lives and incorporates the increasing need of the impact of emotionality that forms part of knowledge production. Additionally, innovative methods are showcased in chapters on researching the family through socially just methods, researcher emotionality and visual data. By bringing together thought-provoking research findings and innovative methodological and theoretical approaches, this collection of essays raises and articulates relevant, timely and future thinking for its readers. This book will therefore be indispensable for students and researchers as well as professionals and policymakers interested in understanding family life in the 21st century.

Exploring Gender Diversity in the Ancient World *Edinburgh University Press*

Explores how binary gender and behaviours of gender were actively challenged in classical antiquityProvides a focus on gender on its own terms and outside the context of sex and sexuality Offers an interdisciplinary approach, appealing to Classicists, Ancient Historians, and Archaeologists, as well as audiences working outside the ancient world, in Gender Studies, Transgender Studies, LGBTQ+ Studies, Anthropology, and Women's StudiesCovers a broad time period (6th c. BCE - 3rd c. CE) and addresses both textual evidence and material culture (vases, sculpture, wall painting)Provides history of gender identities and behaviours previously ignored or suppressed by disciplinary practicesGender identity and expression in ancient cultures are questioned in these 15 essays in light of our new understandings of sex and gender. Using contemporary theory and methodologies this book opens up a new history of gender diversity from the ancient world to our own, encouraging us to reconsider those very understandings of sex and gender identity. New analyses of ancient Greek and Roman culture that reveal a history of gender diverse individuals that has not been recognised until recently.Taking an interdisciplinary approach these essays will appeal to classicists, ancient historians, archaeologists as well as those working in gender studies, transgender studies, LGBTQ+ studies, anthropology and women's studies.

Biology

Exploring Life

Handbook of Social Justice in Loss and Grief

Exploring Diversity, Equity, and Inclusion *Routledge*

The Handbook of Social Justice in Loss and Grief is a scholarly work of social criticism, richly grounded in personal experience, evocative case studies,

and current multicultural and sociocultural theories and research. It is also consistently practical and reflective, challenging readers to think through responses to ethically complex scenarios in which social justice is undermined by radically uneven opportunity structures, hierarchies of voice and privilege, personal and professional power, and unconscious assumptions, at the very junctures when people are most vulnerable—at points of serious illness, confrontation with end-of-life decision making, and in the throes of grief and bereavement. Harris and Bordere give the reader an active and engaged take on the field, enticing readers to interrogate their own assumptions and practices while increasing, chapter after chapter, their cultural literacy regarding important groups and contexts. The Handbook of Social Justice in Loss and Grief deeply and uniquely addresses a hot topic in the helping professions and social sciences and does so with uncommon readability.

Animal Earth

The Amazing Diversity of Living Creatures

The animal kingdom is staggeringly diverse, but the animals that most easily spring to mind the tigers, elephants, eagles and crocodiles, or perhaps amphibians, fish, insects and even humans account for only a tiny proportion of known species. Whats more, there are estimated to be many tens of millions still unknown to science. Animal Earth is an unbiased tour of this world, highlighting the bizarre appearances, hidden lives and mostly small scale of the creatures with whom we share our planet. The bewildering number of animal species are all offshoots from a relatively small number of lineages, all sharing a common body plan and evolutionary history. This book provides a broadly equal summary of each of these thirty-five lineages, and is structured according to the latest research on the evolutionary relationships of the animals. Every species is an integral component of the ecosystem we live in, and as intelligent beings it is our duty to protect and understand animal diversity not only for its own sake but also to maintain the natural systems that keep us and everything else alive.

Exploring the Genetic Diversity of Marine Organisms Based on the Analysis of Chromosome and Genomic DNA Markers *Frontiers Media SA*

Conserving Biodiversity

A Research Agenda for Development Agencies

National Academies Press

The loss of the earth's biological diversity is widely recognized as a critical environmental problem. That loss is most severe in developing countries, where the conditions of human existence are most difficult. Conserving Biodiversity presents an agenda for research that can provide information to formulate policy and design conservation programs in the Third World. The book includes discussions of research needs in the biological sciences as well as economics and anthropology, areas of critical importance to conservation and sustainable development. Although specifically directed toward development agencies, non-governmental organizations, and decisionmakers in developing nations, this volume should be of interest to all who are involved in the conservation of biological diversity.

Opportunities in Biology

National Academies

Biology has entered an era in which interdisciplinary cooperation is at an all-time high, practical applications follow basic discoveries more quickly than ever before, and new technologies--recombinant DNA, scanning tunneling microscopes, and more--are revolutionizing the way science is conducted. The potential for scientific breakthroughs with significant implications for society has never been greater. Opportunities in Biology reports on the state of the new biology, taking a detailed look at the disciplines of biology; examining the advances made in medicine, agriculture, and other fields; and pointing out promising research opportunities. Authored by an expert panel representing a variety of viewpoints, this volume also offers recommendations on how to meet the infrastructure needs--for funding, effective information systems, and other support--of future biology research. Exploring what has been accomplished and what is on the horizon, Opportunities in Biology is an indispensable resource for students, teachers, and researchers in all subdisciplines of biology as well as for research administrators and those in funding agencies.

Exploring Biological Diversity, Environment, and Local People's Perspectives in Forest Landscapes: Methods for a Multidisciplinary Landscape Assessment

CIFOR

Operational overview. Villages and communities. Field sample selection. Village-based activities. First community meeting. Community landscape mapping. Selecting local informants. Community-based data collections. Field-based activities. Site, vegetation and trees. Plants and site - ethnoecological data. Soil assessment. Data control and management. Plant taxonomy and verification. Database. Conclusiones.

The Nature of Diversity

An Evolutionary Voyage of Discovery

University of Chicago Press

All living things on earth—from individual species to entire ecosystems—have evolved through time, and evolution is the acknowledged framework of modern biology. Yet many areas of biology have moved from a focus on evolution to much narrower perspectives. Daniel R. Brooks and Deborah A. McLennan argue that it is impossible to comprehend the nature of life on earth unless evolution—the history of organisms—is restored to a central position in research. They demonstrate how the phylogenetic approach can be integrated with ecological and behavioral studies to produce a richer and more complete picture of evolution. Clearly setting out the conceptual, methodological, and empirical foundations of their research program, Brooks and McLennan show how scientists can use it to unravel the evolutionary history of virtually any characteristic of any living thing, from

behaviors to ecosystems. They illustrate and test their approach with examples drawn from a wide variety of species and habitats. The Nature of Diversity provides a powerful new tool for understanding, documenting, and preserving the world's biodiversity. It is an essential book for biologists working in evolution, ecology, behavior, conservation, and systematics. The argument in The Nature of Diversity greatly expands upon and refines the arguments made in the authors' previous book Phylogeny, Ecology, and Behavior.

Exploring Diversity

A Video Case Approach

Prentice Hall

The accompanying CD-ROM, "Culturally responsive teaching and leading: studies to improve awareness and practice" by R. Carl Harris, et al., presents 4 cases that address cultural, ethnic, linguistic, and socioeconomic diversity. Primary grades, middle school, and secondary schools are represented.

Life

The Science of Biology

Macmillan

Authoritative, thorough, and engaging, Life: The Science of Biology achieves an optimal balance of scholarship and teachability, never losing sight of either the science or the student. The first introductory text to present biological concepts through the research that revealed them, Life covers the full range of topics with an integrated experimental focus that flows naturally from the narrative. This approach helps to bring the drama of classic and cutting-edge research to the classroom - but always in the context of reinforcing core ideas and the innovative scientific thinking behind them. Students will experience biology not just as a litany of facts or a highlight reel of experiments, but as a rich, coherent discipline.

Messages from Islands

A Global Biodiversity Tour

University of Chicago Press

Messages from Islands is a synthetic tour of the world of biodiversity species and their communitiesand the habitats in which they live. It looks at how biodiversity is generated in the course of evolution and how is it maintained over time. The itinerary of the tour is question based. What is causing the current biodiversity crisis ? What is extinction threshold and what is extinction debt? What is the biodiversity hypothesis about rapidly increasing allergies, asthma, and other chronic inflammatory disorders? What is the third-of-third rule, and could it be the solution to habitat conservation? Each chapter begins on an island, with reflections of his own studies and observations about biodiversity on islands, from a small islet in the Baltic Sea to the large tropical islands of Borneo and Madagascar to Greenland, the world s largest island. And then steeped in those locations he leads readers on tours of different themes in biodiversity research. Greenland, for example, is a starting point for the world of microbes, and how scientists are coming to understand their staggering biodiversity and how it impacts ecosystems, including the one that lives within our own guts. The result is a conceptually oriented narrative of research on biodiversity, infused with personal anecdotes to convey the excitement of doing aforementioned research. The book is an important introduction to current themes in ecological research to students, and is a highly engaging read for specialists, many of whom in ecology have been influenced by Mr. Hanski s work."

Oaks Physiological Ecology. Exploring the Functional Diversity of Genus Quercus L.

Springer

With more than 500 species distributed all around the Northern Hemisphere, the genus Quercus L. is a dominant element of a wide variety of habitats including temperate, tropical, subtropical and mediterranean forests and woodlands. As the fossil record reflects, oaks were usual from the Oligocene onwards, showing the high ability of the genus to colonize new and different habitats. Such diversity and ecological amplitude makes genus Quercus an excellent framework for comparative ecophysiological studies, allowing the analysis of many mechanisms that are found in different oaks at different level (leaf or stem). The combination of several morphological and physiological attributes defines the existence of different functional types within the genus, which are characteristic of specific phytoclimates. From a landscape perspective, oak forests and woodlands are threatened by many factors that can compromise their future: a limited regeneration, massive decline processes, mostly triggered by adverse climatic events or the competence with other broad-leaved trees and conifer species. The knowledge of all these facts can allow for a better management of the oak forests in the future.

Teaching About Evolution and the Nature of Science

National Academies Press

Today many school students are shielded from one of the most important concepts in modern science: evolution. In engaging and conversational style, Teaching About Evolution and the Nature of Science provides a well-structured framework for understanding and teaching evolution. Written for teachers, parents, and community officials as well as scientists and educators, this book describes how evolution reveals both the great diversity and similarity among the Earth's organisms; it explores how scientists approach the question of evolution; and it illustrates the nature of science as a way of knowing about the natural world. In addition, the book provides answers to frequently asked questions to help readers understand many of the issues and misconceptions about evolution. The book includes sample activities for teaching about evolution and the nature of science. For example, the book includes activities that investigate fossil footprints and population growth that teachers of science can use to introduce principles of evolution. Background information, materials, and step-by-step presentations are provided for each activity. In addition, this volume: Presents the evidence for evolution, including how evolution can be observed today. Explains the nature of science through a variety of examples. Describes how science differs from other human endeavors and why evolution is one of the best avenues for helping students understand this distinction. Answers

frequently asked questions about evolution. Teaching About Evolution and the Nature of Science builds on the 1996 National Science Education Standards released by the National Research Council--and offers detailed guidance on how to evaluate and choose instructional materials that support the standards. Comprehensive and practical, this book brings one of today's educational challenges into focus in a balanced and reasoned discussion. It will be of special interest to teachers of science, school administrators, and interested members of the community.

Exploring the Way Life Works

The Science of Biology *Jones & Bartlett Learning*
The perfect answer for any instructor seeking a more concise, meaningful, and flexible alternative to the standard introductory biology text.

Mechanisms of Life History Evolution

The Genetics and Physiology of Life History Traits and Trade-Offs *OUP Oxford*
Life history theory seeks to explain the evolution of the major features of life cycles by analyzing the ecological factors that shape age-specific schedules of growth, reproduction, and survival and by investigating the trade-offs that constrain the evolution of these traits. Although life history theory has made enormous progress in explaining the diversity of life history strategies among species, it traditionally ignores the underlying proximate mechanisms. This novel book argues that many fundamental problems in life history evolution, including the nature of trade-offs, can only be fully resolved if we begin to integrate information on developmental, physiological, and genetic mechanisms into the classical life history framework. Each chapter is written by an established or up-and-coming leader in their respective field; they not only represent the state of the art but also offer fresh perspectives for future research. The text is divided into 7 sections that cover basic concepts (Part 1), the mechanisms that affect different parts of the life cycle (growth, development, and maturation; reproduction; and aging and somatic maintenance) (Parts 2-4), life history plasticity (Part 5), life history integration and trade-offs (Part 6), and concludes with a synthesis chapter written by a prominent leader in the field and an editorial postscript (Part 7).

Making a Life in Multiethnic Miami

Immigration and the Rise of a Global City *Lynne Rienner Pub*
With some two million immigrants from Latin American and the Caribbean, Miami, Florida, boasts the highest proportion of foreign-born residents of any US city. Charting the rise of Miami as a global city, Elizabeth Aranda, Sallie Hughes, and Elena Sabogal provide a panoramic study of the changing dynamics of the immigration experience. The authors move easily between an analysis of global currents and personal narratives, examining the many factors that shape the decision to emigrate and the challenges faced in making a new home. Offering a wealth of new insights, their work demonstrates why Miami is such an exceptional laboratory for studying the social forces and local effects of globalization on the ground.

Letters from the Future

Linking Students and Teaching with the Diversity of Everyday Life *Stylus Publishing, LLC.*
If, fundamentally, education is about change and transformation, this is all the more true where teaching and learning about diversity is concerned. Yet teachers rarely know what influence their instruction has had on the lives of their students. Given the social importance of this enterprise, there is a compelling need to evaluate diversity education and student outcomes. This edited volume provides insights into the teaching and learning experiences of diversity educators and their students. College-level teachers from such disciplines as biology, social work, sex education, communication, political science, English literature, and criminology share their general philosophy of teaching and how teaching diversity offers insights and challenges in the classroom. This book uniquely integrates revealing letters from former students within each teacher's chapter. These letters offer observations and reflections upon key lessons learned or ideas that were challenged in the teacher's classroom and how these lessons are connected to or disconnected from their professional and/or personal lives. We also see how the teachers in turn have modified their practice in the light of their students' feedback. The editors revisit the chapters to find the emergent Best Practices as take-aways for the reader. This book will be useful to college teachers who currently teach courses with a diversity-focused content, and to instructors who plan to incorporate diversity content within an existing course. Directors of teaching and learning centers, coordinators of doctoral programs, and TA centers will also find helpful information and insights about pedagogy, process, and learning outcomes.

Exploring the Role of Diversity in Sustainable Agriculture

Proceedings of a Symposium ... *Amer Society of Agronomy*
The symposium and the resulting book on "Exploring the Role of Diversity in Sustainable Agriculture" is one of the first efforts in attempting to summarize existing knowledge on the subject. The terms diversity and biodiversity have recently come into wide public use. Most typically, they are used in discussions about conservation issues, particularly the magnitude and importance of species loss. At other times, however, diversity and biodiversity are referred to a desirable property of natural systems and, perhaps in a different sense, of human society. It is this second use of the term that has inspired this publication
A World in One Cubic Foot

Portraits of Biodiversity *University of Chicago Press*
Twelve inches by twelve inches by twelve inches, the cubic foot is a relatively tiny unit of measure compared to the whole world. With every step, we disturb and move through cubic foot after cubic foot. But behold the cubic foot in nature—from coral reefs to cloud forests to tidal pools—even in that finite space you can see the multitude of creatures that make up a vibrant ecosystem. For A World in One Cubic Foot, esteemed nature photographer David Liittschwager took a bright green metal cube—measuring precisely one cubic foot—and set it in various ecosystems around the world, from Costa Rica to Central Park. Working with local scientists, he measured what moved through that small space in a period of twenty-four hours. He then photographed the cube's setting and the plant, animal, and insect life inside it—anything visible to the naked eye. The result is a stunning portrait of the amazing diversity that can be found in ecosystems around the globe. Many organisms captured in Liittschwager's photographs have rarely, if ever, been presented in their full splendor to the general reader, and the singular beauty of these images evocatively conveys the richness of life around us and the essential need for its conservation. The breathtaking images are accompanied by equally engaging essays that speak to both the landscapes and the worlds contained within them, from distinguished contributors such as Elizabeth Kolbert and Alan Huffman, in addition to an introduction by E. O. Wilson. After encountering this book, you will never look at the tiniest sliver of your own backyard or neighborhood park the same way; instead, you will be stunned by the unexpected variety of species found in an area so small. A World in One Cubic Foot puts the world accessibly in our hands and allows us to behold the magic of an ecosystem in miniature. Liittschwager's awe-inspiring photographs take us to places both familiar and exotic and instill new awareness of the life that abounds all around.

Learning Science in Informal Environments

People, Places, and Pursuits *National Academies Press*
Informal science is a burgeoning field that operates across a broad range of venues and envisages learning outcomes for individuals, schools, families, and society. The evidence base that describes informal science, its promise, and effects is informed by a range of disciplines and perspectives, including field-based research, visitor studies, and psychological and anthropological studies of learning. Learning Science in Informal Environments draws together disparate literatures, synthesizes the state of knowledge, and articulates a common framework for the next generation of research on learning science in informal environments across a life span. Contributors include recognized experts in a range of disciplines--research and evaluation, exhibit designers, program developers, and educators. They also have experience in a range of settings--museums, after-school programs, science and technology centers, media enterprises, aquariums, zoos, state parks, and botanical gardens. Learning Science in Informal Environments is an invaluable guide for program and exhibit designers, evaluators, staff of science-rich informal learning institutions and community-based organizations, scientists interested in educational outreach, federal science agency education staff, and K-12 science educators.

On Being Included

Racism and Diversity in Institutional Life *Duke University Press*
Ahmed argues that a commitment to diversity is frequently substituted for a commitment to actual change. She traces the work that diversity does, examining how the term is used and the way it serves to make questions about racism seem impertinent. Her study is based in universities and her research is primarily in the UK and Australia, but the argument is equally valid in North America and beyond.

The Way Life Works

The Science Lover's Illustrated Guide to how Life Grows, Develops, Reproduces, and Gets Along *Times Books*
An overview of biology outlines the sixteen key principles of life, the role of energy, the language of DNA, the theories of evolution, and the dynamics of growth