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**Decades of research have
demonstrated that the parent-child
dyad and the environment of the**

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familyâ€™"which includes all primary caregiversâ€™"are at the foundation of children's well-being and healthy development. From birth, children are learning and rely on parents and the other caregivers in their lives to protect and care for them. The impact of parents may never be

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greater than during the earliest years of life, when a child's brain is rapidly developing and when nearly all of her or his experiences are created and shaped by parents and the family environment. Parents help children build and refine their knowledge and skills, charting a

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trajectory for their health and well-being during childhood and beyond. The experience of parenting also impacts parents themselves. For instance, parenting can enrich and give focus to parents' lives; generate stress or calm; and create any number of

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emotions, including feelings of happiness, sadness, fulfillment, and anger. Parenting of young children today takes place in the context of significant ongoing developments. These include: a rapidly growing body of science on early childhood, increases in funding for programs

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and services for families, changing demographics of the U.S. population, and greater diversity of family structure. Additionally, parenting is increasingly being shaped by technology and increased access to information about parenting. Parenting Matters

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identifies parenting knowledge, attitudes, and practices associated with positive developmental outcomes in children ages 0-8; universal/preventive and targeted strategies used in a variety of settings that have been effective with parents of young children and

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that support the identified knowledge, attitudes, and practices; and barriers to and facilitators for parents' use of practices that lead to healthy child outcomes as well as their participation in effective programs and services. This report makes recommendations directed

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at an array of stakeholders, for promoting the wide-scale adoption of effective programs and services for parents and on areas that warrant further research to inform policy and practice. It is meant to serve as a roadmap for the future of parenting policy, research, and

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**practice in the United States.
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- Biology of the Cell
- Principles of Genetics
- DNA and Gene Expression
- Principles of Evolution
- The Origin of Life and Simple Life Forms
- Biology of

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**Plants • Biology of Animals •
Human Biology • Reproduction and
Development in Humans •
Principles of Ecology
This Time Is Different
Algebraic and Discrete
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Scores of talented and
dedicated people serve the

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forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements,

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both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent

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application. Strengthening Forensic Science in the United States: A Path Forward provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National

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Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law

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enforcement officials,
enhancing homeland security,
and reducing the risk of
wrongful conviction and
exoneration. Strengthening
Forensic Science in the
United States gives a full
account of what is needed to

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advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification

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and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys,

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and forensic science
educators.

Modern Computer Arithmetic
focuses on arbitrary-
precision algorithms for
efficiently performing
arithmetic operations such
as addition, multiplication

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and division, and their connections to topics such as modular arithmetic, greatest common divisors, the Fast Fourier Transform (FFT), and the computation of elementary and special functions. Brent and

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Zimmermann present algorithms that are ready to implement in your favourite language, while keeping a high-level description and avoiding too low-level or machine-dependent details. The book is intended for

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anyone interested in the design and implementation of efficient high-precision algorithms for computer arithmetic, and more generally efficient multiple-precision numerical algorithms. It may also be

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used in a graduate course in mathematics or computer science, for which exercises are included. These vary considerably in difficulty, from easy to small research projects, and expand on topics discussed in the

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text. Solutions to selected exercises are available from the authors.

Thorough and accessible, this book presents the design principles of biological systems, and highlights the recurring

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circuit elements that make up biological networks. It provides a simple mathematical framework which can be used to understand and even design biological circuits. The text avoids specialist terms, focusing

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instead on several well-studied biological systems that concisely demonstrate key principles. An Introduction to Systems Biology: Design Principles of Biological Circuits builds a solid foundation

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for the intuitive understanding of general principles. It encourages the reader to ask why a system is designed in a particular way and then proceeds to answer with simplified models.

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Le Deuxième Sexe

Modern Nature

Nexus New York

Holt Anthology of Science
Fiction

The Catholic Youth Bible,

Nabre, New American Bible

The Foundations of Modern

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Biology

Includes: an introduction to the genre of science fiction -- stories relating to the various areas of science by leading authors in the field --

Bibliographical information on

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authors -- References for
additional reading -- Critical
thinking questions.

Examines financial crises of
the past and discusses
similarities between these
events and the current crisis,

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presenting and comparing historical patterns in bank failures, inflation, debt, currency, housing, employment, and government spending.

Spotlights small and pivotal

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experiments that changed the course of science, including information on the study of guinea pigs, passion flowers, zebra fish, and viruses.

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CLEP Biology

Study Guide

Eight Centuries of Financial
Folly

The Rise of the Biological
Perspective in Germany

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the potential to contribute practical
solutions to many of the major
challenges confronting the United

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States and the world. A New Biology for the 21st Century recommends that a "New Biology" approach--one that depends on greater integration within biology, and closer collaboration with physical, computational, and earth

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scientists, mathematicians and engineers--be used to find solutions to four key societal needs: sustainable food production, ecosystem restoration, optimized biofuel production, and improvement in human health. The

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approach calls for a coordinated effort to leverage resources across the federal, private, and academic sectors to help meet challenges and improve the return on life science research in general.

Molecular Biology of the Cell

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The Science of Biology
U.S. Health in International
Perspective
Supporting Parents of Children Ages
0-8
Science as a Way of Knowing

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Modern Biology Holt Rinehart &
Winston
*Annelids in Modern
Biology* John Wiley & Sons

*An ethologist shows man to be a gene
machine whose world is one of savage
competition and deceit*

*The Book of Five Rings is a text on
kenjutsu and the martial arts in general,*

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written by the Japanese swordsman Miyamoto Musashi around 1643. Written over three centuries ago by a Samurai warrior, the book has been hailed as a limitless source of psychological insight for businessmen-or anyone who relies on strategy and tactics for outwitting the competition.

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Pathways to Health Equity

An Introduction to Systems Biology

A Path Forward

Holy Bible

Genetics, Cells, and Systems

Modern Statistics for Modern Biology

Annelids offer a diversity of
experimentally accessible features

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making them a rich experimental subject across the biological sciences, including evolutionary development, neurosciences and stem cell research. This volume introduces the Annelids and their utility in evolutionary

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developmental biology,
neurobiology, and
environmental/ecological studies,
including extreme environments.
The book demonstrates the variety
of fields in which Annelids are
already proving to be a useful

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experimental system. Describing the utility of Annelids as a research model, this book is an invaluable resource for all researchers in the field.

This book makes Moore's wisdom available to students in a lively,

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richly illustrated account of the history and workings of life. Employing rhetoric strategies including case histories, hypotheses and deductions, and chronological narrative, it provides both a cultural history of biology

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and an introduction to the procedures and values of science. Breakthroughs in genetics present us with a promise and a predicament. The promise is that we will soon be able to treat and prevent a host of debilitating

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diseases. The predicament is that our newfound genetic knowledge may enable us to manipulate our nature—to enhance our genetic traits and those of our children. Although most people find at least some forms of genetic engineering

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disquieting, it is not easy to articulate why. What is wrong with re-engineering our nature? The Case against Perfection explores these and other moral quandaries connected with the quest to perfect ourselves and our children.

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Michael Sandel argues that the pursuit of perfection is flawed for reasons that go beyond safety and fairness. The drive to enhance human nature through genetic technologies is objectionable because it represents a bid for

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mastery and dominion that fails to appreciate the gifted character of human powers and achievements. Carrying us beyond familiar terms of political discourse, this book contends that the genetic revolution will change the way

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philosophers discuss ethics and will force spiritual questions back onto the political agenda. In order to grapple with the ethics of enhancement, we need to confront questions largely lost from view in the modern world.

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Since these questions verge on theology, modern philosophers and political theorists tend to shrink from them. But our new powers of biotechnology make these questions unavoidable. Addressing them is the task of this

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book, by one of America ' s
preeminent moral and political
thinkers.

Annelids in Modern Biology
A New Biology for the 21st Century
The Book of Five Rings (Annotated)
Biology 2e

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Shorter Lives, Poorer Health
Realizing Opportunity for All Youth
*An exploration of why we
play video games despite
the fact that we are
almost certain to feel
unhappy when we fail at*

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them. We may think of video games as being "fun," but in The Art of Failure, Jesper Juul claims that this is almost entirely mistaken. When we play video games, our

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facial expressions are rarely those of happiness or bliss. Instead, we frown, grimace, and shout in frustration as we lose, or die, or fail to advance to the next level. Humans

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*may have a fundamental
desire to succeed and feel
competent, but game
players choose to engage
in an activity in which
they are nearly certain to
fail and feel incompetent.*

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So why do we play video games even though they make us unhappy? Juul examines this paradox. In video games, as in tragic works of art, literature, theater, and cinema, it

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seems that we want to experience unpleasantness even if we also dislike it. Reader or audience reaction to tragedy is often explained as catharsis, as a purging of

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negative emotions. But, Juul points out, this doesn't seem to be the case for video game players. Games do not purge us of unpleasant emotions; they produce

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*them in the first place.
What, then, does failure
in video game playing do?
Juul argues that failure
in a game is unique in
that when you fail in a
game, you (not a*

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character) are in some way inadequate. Yet games also motivate us to play more, in order to escape that inadequacy, and the feeling of escaping failure (often by

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improving skills) is a central enjoyment of games. Games, writes Juul, are the art of failure: the singular art form that sets us up for failure and allows us to experience it

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*and experiment with it.
The Art of Failure is
essential reading for
anyone interested in video
games, whether as
entertainment, art, or
education.*

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Adolescenceâ€"beginning with the onset of puberty and ending in the mid-20sâ€"is a critical period of development during which key areas of the brain mature and

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develop. These changes in brain structure, function, and connectivity mark adolescence as a period of opportunity to discover new vistas, to form relationships with peers

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and adults, and to explore one's developing identity. It is also a period of resilience that can ameliorate childhood setbacks and set the stage for a thriving trajectory

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*over the life course.
Because adolescents
comprise nearly one-fourth
of the entire U.S.
population, the nation
needs policies and
practices that will better*

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leverage these developmental opportunities to harness the promise of adolescenceâ€"rather than focusing myopically on containing its risks. This

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*report examines the
neurobiological and socio-
behavioral science of
adolescent development and
outlines how this
knowledge can be applied,
both to promote adolescent*

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*well-being, resilience,
and development, and to
rectify structural
barriers and inequalities
in opportunity, enabling
all adolescents to
flourish.*

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*An examination of the
pioneering Caribbean and
Latin American artists who
resided in New York prior
to WWII and shaped the
American avant-garde
Between 1900 and 1942, New*

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York City was the site of extraordinary creative exchange where artists could share ideas in a global context. The swiftly changing urban landscape before and

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*between the World Wars
inspired the erosion of
artistic boundaries and
fostered a new climate of
modernist experimentation.
Nexus New York focuses on
key artists from the*

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*Caribbean and Latin
America who entered into
dynamic cultural and
social dialogues with the
American-based avant-garde
and participated in the
development of a new*

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modern discourse.

*Featuring both celebrated
and little-known figures
of this period, including
Carlos Enríquez, Alice
Neel, Marius de Zayas,
Francis Picabia, Joaquín*

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*Torres-Garcia, José
Clemente Orozco, Matta,
and Robert Motherwell,
contributing authors also
discuss the specific
environments in which they
flourished, including the*

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Art Students League, the Siqueiros Experimental Workshop, and the New School for Social Research. A fascinating look at 20th-century modernism, this book

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*provides the first view of
the important encounters
between artists of the
Americas.*

*A Guide to Modern Biology
Concepts of Biology
Design Principles of*

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Biological Circuits

The Promise of Adolescence

Strengthening Forensic

Science in the United

States

The Selfish Gene

An encyclopedia designed especially to

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meet the needs of elementary, junior high, and senior high school students.

Written by experts in both mathematics and biology, Algebraic and Discrete Mathematical Methods for Modern Biology offers a bridge between math and biology, providing a framework for simulating, analyzing, predicting, and

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modulating the behavior of complex biological systems. Each chapter begins with a question from modern biology, followed by the description of certain mathematical methods and theory appropriate in the search of answers. Every topic provides a fast-track pathway through the problem by presenting the

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biological foundation, covering the relevant mathematical theory, and highlighting connections between them. Many of the projects and exercises embedded in each chapter utilize specialized software, providing students with much-needed familiarity and experience with computing applications,

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critical components of the "modern biology" skill set. This book is appropriate for mathematics courses such as finite mathematics, discrete structures, linear algebra, abstract/modern algebra, graph theory, probability, bioinformatics, statistics, biostatistics, and modeling, as well as for biology courses such as

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*genetics, cell and molecular biology,
biochemistry, ecology, and evolution.*

*Examines significant questions in modern
biology and their mathematical treatments
Presents important mathematical concepts
and tools in the context of essential
biology Features material of interest to
students in both mathematics and biology*

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Presents chapters in modular format so coverage need not follow the Table of Contents Introduces projects appropriate for undergraduate research Utilizes freely accessible software for visualization, simulation, and analysis in modern biology Requires no calculus as a prerequisite Provides a complete Solutions

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*Manual Features a companion website
with supplementary resources*

*The United States is among the wealthiest
nations in the world, but it is far from the
healthiest. Although life expectancy and
survival rates in the United States have
improved dramatically over the past
century, Americans live shorter lives and*

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experience more injuries and illnesses than people in other high-income countries. The U.S. health disadvantage cannot be attributed solely to the adverse health status of racial or ethnic minorities or poor people: even highly advantaged Americans are in worse health than their counterparts in other, "peer" countries. In

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light of the new and growing evidence about the U.S. health disadvantage, the National Institutes of Health asked the National Research Council (NRC) and the Institute of Medicine (IOM) to convene a panel of experts to study the issue. The Panel on Understanding Cross-National Health Differences Among High-Income

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Countries examined whether the U.S. health disadvantage exists across the life span, considered potential explanations, and assessed the larger implications of the findings. U.S. Health in International Perspective presents detailed evidence on the issue, explores the possible explanations for the shorter and less

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healthy lives of Americans than those of people in comparable countries, and recommends actions by both government and nongovernment agencies and organizations to address the U.S. health disadvantage.

Communities in Action

Latin/American Artists in the Modern

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Metropolis

The Case against Perfection

Modern Computer Arithmetic

Life

An Essay on the Pain of Playing Video

Games

In *Modern Nature*, Lynn K. Nyhart
traces the emergence of a “biological

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perspective ” in late nineteenth-century Germany that emphasized the dynamic relationships among organisms, and between organisms and their environment. Examining this approach to nature in light of Germany ’ s fraught urbanization and industrialization, as well the

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opportunities presented by new and reforming institutions, she argues that rapid social change drew attention to the role of social relationships and physical environments in rendering a society—and nature—whole, functional, and healthy. This quintessentially modern view of

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nature, Nyhart shows, stood in stark contrast to the standard naturalist 's orientation toward classification. While this new biological perspective would eventually grow into the academic discipline of ecology, Modern Nature locates its roots outside the universities, in a vibrant realm of

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populist natural history inhabited by taxidermists and zookeepers, schoolteachers and museum reformers, amateur enthusiasts and nature protectionists. Probing the populist beginnings of animal ecology in Germany, Nyhart unites the history of popular natural history with that of

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elite science in a new way. In doing so, she brings to light a major orientation in late nineteenth-century biology that has long been eclipsed by Darwinism.

The classic manifesto of the liberated woman, this book explores every facet of a woman's life.

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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

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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

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them. Students will experience biology not just as a litany of facts or a highlight reel of experiments, but as a rich, coherent discipline.

The Politics of Difference in Medical Research

Modern Biology, California

Modern Biology

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The World Book Encyclopedia
Artificial Intelligence
Inclusion

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

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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

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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

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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

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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

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thinking and clicker questions to help students understand--and apply--key concepts.

In the United States, some populations suffer from far greater disparities in health than others. Those disparities are caused not only by fundamental differences in health status across

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segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education,

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inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not

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mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. Communities in Action: Pathways to Health Equity seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on

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what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.

As a society, we have learned to value

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diversity. But can some strategies to achieve diversity mask deeper problems, ones that might require a different approach and different solutions? With Inclusion, Steven Epstein argues that in the field of medical research, the answer is an emphatic yes. Formal concern with

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diversity in American medical research, Epstein shows, is a fairly recent phenomenon. Until the mid-1980s, few paid close attention to who was included in research subject pools. Not uncommonly, scientists studied groups of mostly white, middle-aged men—and assumed that conclusions

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drawn from studying them would apply to the rest of the population. But struggles involving advocacy groups, experts, and Congress led to reforms that forced researchers and pharmaceutical companies to diversify the population from which they drew for clinical research. That change has

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gone hand in hand with bold assertions that group differences in society are encoded in our biology—for example, that there are important biological differences in the ways that people of different races and sexes respond to drugs and other treatments. While the prominence of these inclusive

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practices has offered hope to traditionally underserved groups, Epstein argues forcefully that it has drawn attention away from the tremendous inequalities in health that are rooted not in biology but in society. There is, for instance, a direct relationship between social class and

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health status—and Epstein believes that a focus on bodily differences can obscure the importance of this factor. Only when connected to a broad-based effort to address health disparities, Epstein explains, can a medical policy of inclusion achieve its intended effects.

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The Eighth Day of Creation

Makers of the Revolution in Biology

The Art of Failure

Parenting Matters