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of the fascinating Big Ideas series, this book tackles tricky topics and themes in a simple and easy to follow format. Learn about Biology in this overview guide to the subject, brilliant for novices looking to find out more and experts wishing to refresh their knowledge alike! The Biology Book brings a fresh and vibrant take on the topic through eye-catching graphics and diagrams to immerse yourself in. This captivating book will broaden your understanding of Biology, with: - More than 95 ideas and events key to the development of biology and the life sciences - Packed with facts, charts, timelines and graphs to help explain core concepts - A visual approach to big subjects with striking illustrations and graphics throughout - Easy to follow text makes topics accessible for people at any level of understanding The Biology Book is a captivating introduction to understanding the living world and explaining how its organisms work and interact - whether microbes, mushrooms, or mammals. Here you'll

discover key areas of the life sciences, including ecology, zoology, and biotechnology, through exciting text and bold graphics. Your Biology Questions, Simply Explained This book will outline big biological ideas, like the mysteries of DNA and genetic inheritance; and how we learnt to develop vaccines that control diseases. If you thought it was difficult to learn about the living world, The Biology Book presents key information in a clear layout. Here you'll learn about cloning, neuroscience, human evolution, and gene editing, and be introduced to the scientists who shaped these subjects, such as Carl Linnaeus, Jean-Baptiste Lamarck, Charles Darwin, and Gregor Mendel. The Big Ideas Series With millions of copies sold worldwide, The Biology Book is part of the award-winning Big Ideas series from DK. The series uses striking graphics along with engaging writing, making big topics easy to understand. Biology in Profile: A Guide to the Many Branches of Biology is a 20-chapter text that describes the profile

and biological phenomena of selected branches of biology. Each chapter discusses the scope, growth areas, and specialties of the specific branch of biology. This book includes 20 branches of biology, such as zoology, botany, microbiology, physiology, ecology, ethology, psychology, parasitology, pharmacy, and pharmacology. Other branches covered include toxicology, nutrition, food science, endocrinology, immunology, genetics, virology, biophysics, biochemistry, and molecular biology. This book will be of value to students and other scientists who are not practicing biologists. Contains 1,034 alphabetically arranged entries that provide information about some of the most significant topics, principles, and discoveries in biology and its allied disciplines, including brief biographies of key individuals in the field. Philosophers of science frequently bemoan (or cheer) the fact that today, with the supposed collapse of logical empiricism, there are now ;;10 grand systems. However, although this

mayor may not be true, and if true mayor may not be a cause for delight, no one should conclude that the philosophy of science has ground to a halt, its problems exhausted and its practitioners dispirited. In fact, in this post Kuhnian age the subject has never been more alive, as we work with enthusiasm on special topics, historical and conceptual. And no topic has grown and thrived quite like the philosophy of biology, which now has many students in the field producing high-quality articles and monographs. The success of this subject is due above all to the work and influence of one man: David Hull. In his own writings and in the support he has given to others, he has shown true leadership, in the best Platonic sense. It is now twenty years since Hull first gave his seminal paper 'What the philosophy of biology is not', and to mark that point and to show our respect, gratitude and affection to its author, a number of us who owe much to Hull decided to produce a volume of essays on and around themes to which

Hull has spoken. A Synopsis of Biology summarizes the entire field of biology using a telegraphic style. The discussions are organized around seven themes: form and structure (morphology); functions (physiology); organism and environment (ecology); evolution and heredity (genetics); plant classification (systematic botany); animal classification (systematic zoology); and applications of biology (applied biology). Comprised of seven sections, this book begins with a detailed account of the morphology of living and non-living things, followed by an assessment of the origin of life. The reader is then introduced to reproduction (vegetative, sexual, and asexual); plant and animal tissues; seeds and seedlings; and metamerism and segmentation. Subsequent chapters explore matter and energy; organic and inorganic compounds; dermal excretion and thermo-regulation; periodicity and seasonal phenomena; and the life of rivers and lakes. The book also examines parasitism; mating and

courtship; natural, artificial, and sexual selection; cultivation of plants; and domestication of animals. This monograph will be useful to research workers, degree students, and others interested in biology. 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. Chiefly reprints from various scientific journals, *Biology of Life: Biochemistry, Physiology and Philosophy* provides foundational coverage of the field of biochemistry for a different angle to the traditional biochemistry text by focusing on human biochemistry and incorporating related elements of evolution to help further contextualize this dynamic space. This unique approach includes sections on early human development, what constitutes human life, and what makes it special. Additional coverage on the differences between the biochemistry of prokaryotes and eukaryotes is also included. The center of life in prokaryotes is

considered to be photosynthesis and sugar generation, while the center of life in eukaryotes is sugar use and oxidative phosphorylation. This unique reference will inform specialized biochemistry courses and researchers in their understanding of the role biochemistry has in human life. Contextualizes the field of biochemistry and its role in human life Includes dedicated sections on human reproduction and human brain development Provides extensive coverage on biochemical energetics, oxidative phosphorylation, photosynthesis, and carbon monoxide-acetate pathways An essential introduction to the philosophy of biology This is a concise, comprehensive, and accessible introduction to the philosophy of biology written by a leading authority on the subject. Geared to philosophers, biologists, and students of both, the book provides sophisticated and innovative coverage of the central topics and many of the latest developments in the field. Emphasizing connections between biological theories and

other areas of philosophy, and carefully explaining both philosophical and biological terms, Peter Godfrey-Smith discusses the relation between philosophy and science; examines the role of laws, mechanistic explanation, and idealized models in biological theories; describes evolution by natural selection; and assesses attempts to extend Darwin's mechanism to explain changes in ideas, culture, and other phenomena. Further topics include functions and teleology, individuality and organisms, species, the tree of life, and human nature. The book closes with detailed, cutting-edge treatments of the evolution of cooperation, of information in biology, and of the role of communication in living systems at all scales. Authoritative and up-to-date, this is an essential guide for anyone interested in the important philosophical issues raised by the biological sciences. Includes bibliographical references and index. This collection of specially commissioned essays puts top scholars head to

head to debate the central issues in the lively and fastgrowing field of philosophy of biology Brings together original essays on ten of the most hotlydebated questions in philosophy of biology Lively head-to-head debate format sharply defines the issuesand paves the way for further discussion Includes coverage of the new and vital area of evolutionarydevelopmental biology, as well as the concept of a unified species,the role of genes in selection, the differences between micro- andmacro-evolution, and much more Each section features an introduction to the topic as well assuggestions for further reading Offers an accessible overview of this fast-growing and dynamicfield, whilst also capturing the imagination of professionalphilosophers and biologists This new eighth edition has been fully revised and updated to reflect recent progress in the fields of biology, biophysics, and biochemistry, with particular expansion to the areas of research design and plant and animal development. Over

120 new entries include "de-extinction," "ecological footprint," "rewilding," and "Zika virus," now totalling over 5,600 authoritative and up-to-date entries. Numerous appendices include classifications of the animal and plant kingdoms, SI units, Nobel prizewinners, and a new appendix on anatomical terms. With new diagrams and updated web links, this remains the market-leading dictionary for students of biology, both at high school and college level. The Principles of Biology sequence (BI 211, 212 and 213) introduces biology as a scientific discipline for students planning to major in biology and other science disciplines. Laboratories and classroom activities introduce techniques used to study biological processes and provide opportunities for students to develop their ability to conduct research. Twelve renowned scientists and theologians offer penetrating insights into the evolution dialogue in The Deep Structure of Biology. Each considers whether the orthodox model of

evolution is sufficient and offers his/her own perspective on evolution and biology. Essays include: •Chance and Necessity in Evolution •Green Plants as Intelligent Organisms •Canny Corvids and Political Primates: A Case for Convergent Evolution in Intelligence •Social and Cultural Evolution in the Ocean: Convergences and Contrasts with Terrestrial Systems •Purpose in Nature: On the Possibility of a Theology of Evolution Editor Simon Conway Morris provides the introduction and an overview of the issues as well as an essay on evolution and convergence. Other contributors are: Richard Lenski, George McGhee, Karl Niklas, Anthony Trewavas, Nigel Franks, Nicola Clayton, Nathan Emery, HalWhitehead, Robert Foley, Michael Ruse, Celia Deane-Drummond, and John Haught. The discussion of biology and evolution in these essays broadens the scope of the traditional evolution discussion as it aims to stimulate the development of further research programs. Scholars in the science and religion field will

find this book a valuable resource. Sperm Biology represents the first analysis of the evolutionary significance of sperm phenotypes and derived sperm traits and the possible selection pressures responsible for sperm-egg coevolution. An understanding of sperm evolution is fast developing and promises to shed light on many topics from basic reproductive biology to the evolutionary process itself as well as the sperm proteome, the sperm genome and the quantitative genetics of sperm. The Editors have identified 15 topics of current interest and biological significance to cover all aspects of this bizarre, fascinating and important subject. It comprises the most comprehensive and up-to-date review of the evolution of sperm and pointers for future research, written by experts in both sperm biology and evolutionary biology. The combination of evolution and sperm is a potent mix, and this is the definitive account. The first review survey of this emerging field Written by experts from a broad array of

disciplines from the physiological and biomedical to the ecological and evolutionary. Sheds light on the intricacies of reproduction and the coevolution of sperm, egg and reproductive behavior. A Top 25 CHOICE 2016 Title, and recipient of the CHOICE Outstanding Academic Title (OAT) Award. How much energy is released in ATP hydrolysis? How many mRNAs are in a cell? How genetically similar are two random people? What is faster, transcription or translation? *Cell Biology by the Numbers* explores these questions and dozens of others. *Handbook of the Biology of Aging, Eighth Edition*, provides readers with an update on the rapid progress in the research of aging. It is a comprehensive synthesis and review of the latest and most important advances and themes in modern biogerontology, and focuses on the trend of 'big data' approaches in the biological sciences, presenting new strategies to analyze, interpret, and understand the enormous amounts of information being generated through

DNA sequencing, transcriptomic, proteomic, and the metabolomics methodologies applied to aging related problems. The book includes discussions on longevity pathways and interventions that modulate aging, innovative new tools that facilitate systems-level approaches to aging research, the mTOR pathway and its importance in age-related phenotypes, new strategies to pharmacologically modulate the mTOR pathway to delay aging, the importance of sirtuins and the hypoxic response in aging, and how various pathways interact within the context of aging as a complex genetic trait, amongst others. Covers the key areas in biological gerontology research in one volume, with an 80% update from the previous edition. Edited by Matt Kaeberlein and George Martin, highly respected voices and researchers within the biology of aging discipline. Assists basic researchers in keeping abreast of research and clinical findings outside their subdiscipline. Presents information that will help medical,

behavioral, and social gerontologists in understanding what basic scientists and clinicians are discovering. New chapters on genetics, evolutionary biology, bone aging, and epigenetic control. Provides a close examination of the diverse research being conducted today in the study of the biology of aging, detailing recent breakthroughs and potential new directions. This text aims to establish biology as a discipline not just a collection of facts. Life develops students' understanding of biological processes with scholarship, a smooth narrative, experimental contexts, art and effective pedagogy. 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. History and Philosophy of Biology summarizes the major philosophical ideas that have attended the development of science in general and of biology in particular. The book then explores how the techniques and the concepts of the physical sciences have impacted biology. A reductionist approach to biology — anatomy, physiology, genetics — complements the study of evolution by natural selection and an ecological perspective. The final section of the book explores several examples of the influence of science on society, and of society on science. Each of 46 chapters of History and Philosophy of Biology has been or could be the topic of a major tome. The book is unique in that it explores the web of interactions among issues of philosophy, techniques and concepts of the physical sciences, fields of biology, and the diverse relationships between society and science. The book should appeal to readers of Scientific American or the New York Review of

Books even if they are not trained biologists. It is a good text, or additional reading, for an advanced undergraduate course treating history and/or philosophy of biology or of science in general. Introduces network inspired approaches for the analysis and integration of large, heterogeneous data sets in the life sciences. By combining excerpts from key historical writings with editors' introductions and further reading material, Philosophy of Biology: An Anthology offers a comprehensive, accessible, and up-to-date collection of the field's most significant works. Addresses central questions such as 'What is life?' and 'How did it begin?', and the most current research and arguments on evolution and developmental biology Editorial notes throughout the text define, clarify, and qualify ideas, concepts and arguments Includes material on evolutionary psychology and evolutionary developmental biology not found in other standard philosophy of biology anthologies Further reading material

assists novices in delving deeper into research in philosophy of biology. A comprehensive history of the biological sciences from antiquity to the modern era. This book presents a global history of the biological sciences from ancient times to today, providing needed perspective on the development of biological thought while shedding light on the field's upheavals and key breakthroughs through the ages. Michel Morange brings to life the dynamic interplay of science, society, and biology's many subdisciplines, enabling readers to better appreciate the interdisciplinary exchanges that have shaped the field over the centuries. Each chapter of this incisive book focuses on a specific period in the history of biology, describing the major transformations that occurred, the enduring scientific concerns behind these changes, and the implications of yesterday's science for today's. Morange covers everything from the first cell theory to the origins of the concept of ecosystems, and offers

perspectives on areas that are often neglected by historians of biology, such as ecology, ethology, and plant biology. Along the way, he highlights the contributions of technology, the important role of hypothesis and experimentation, and the cultural contexts in which some of the most breathtaking discoveries in biology were made. Unrivaled in scope and written by a world-renowned historian of science, *A History of Biology* is an ideal introduction for students and experts alike, and essential reading for anyone seeking to understand the present state of biological knowledge. Provides a philosophical analysis of such biological concepts as natural selection, adaptation, speciation, and evolution. Philosophy of Biology is a rapidly expanding field. It is concerned with explanatory concepts in evolution, genetics, and ecology. This collection of 25 essays by leading researchers provides an overview of the state of the field. These essays are wholly new; none of them could have been

written even ten years ago. They demonstrate how philosophical analysis has been able to contribute to sometimes contested areas of scientific theory making. -Written by internationally acknowledged leaders in the field - Entries make original contributions as well as summarizing state of the art discoveries in the field - Easy to read and understand This comprehensive handbook synthesizes the often-fractured relationship between the study of biology and the study of society. Bringing together a compelling array of interdisciplinary contributions, the authors demonstrate how nuanced attention to both the biological and social sciences opens up novel perspectives upon some of the most significant sociological, anthropological, philosophical and biological questions of our era. The six sections cover topics ranging from genomics and epigenetics, to neuroscience and psychology to social epidemiology and medicine. The authors collaboratively present state-of-the-art research

and perspectives in some of the most intriguing areas of what can be called biosocial and biocultural approaches, demonstrating how quickly we are moving beyond the acrimonious debates that characterized the border between biology and society for most of the twentieth century. This landmark volume will be an extremely valuable resource for scholars and practitioners in all areas of the social and biological sciences. The chapter 'Ten Theses on the Subject of Biology and Politics: Conceptual, Methodological, and Biopolitical Considerations' is open access under a CC BY 4.0 license via link.springer.com. Versions of the chapters 'The Transcendence of the Social', 'Scrutinizing the Epigenetics Revolution', 'Species of Biocapital, 2008, and Speciating Biocapital, 2017' and 'Experimental Entanglements: Social Science and Neuroscience Beyond Interdisciplinarity' are available open access via third parties. For further information please see license information in the chapters or on

link.springer.com. This book brings together for the first time philosophers of biology to write about some of the most central concepts and issues in their field from the perspective of biology education. The chapters of the book cover a variety of topics ranging from traditional ones, such as biological explanation, biology and religion or biology and ethics, to contemporary ones, such as genomics, systems biology or evolutionary developmental biology. Each of the 30 chapters covers the respective philosophical literature in detail and makes specific suggestions for biology education. The aim of this book is to inform biology educators, undergraduate and graduate students in biology and related fields, students in teacher training programs, and curriculum developers about the current state of discussion on the major topics in the philosophy of biology and its implications for teaching biology. In addition, the book can be valuable to philosophers of biology as an introductory text in undergraduate and graduate

courses. Fundamentals of Molecular Structural Biology reviews the mathematical and physical foundations of molecular structural biology. Based on these fundamental concepts, it then describes molecular structure and explains basic genetic mechanisms. Given the increasingly interdisciplinary nature of research, early career researchers and those shifting into an adjacent field often require a "fundamentals" book to get them up-to-speed on the foundations of a particular field. This book fills that niche. Provides a current and easily digestible resource on molecular structural biology, discussing both foundations and the latest advances Addresses critical issues surrounding macromolecular structures, such as structure-based drug discovery, single-particle analysis, computational molecular biology/molecular dynamic simulation, cell signaling and immune response, macromolecular assemblies, and systems biology Presents discussions that ultimately lead the reader toward a more detailed understanding of

the basis and origin of disease

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