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Investigates and sets out the common principles of social evolution operating across all taxa and levels of biological organisation. This book provides a perspective on adaptive evolution. Darwin's nineteenth-century writings laid the foundations for modern studies of evolution, and theoretical developments in the mid-twentieth century fostered the Modern Synthesis. Since that time, a great deal of new biological knowledge has been generated, including details of the genetic code, lateral gene transfer, and developmental constraints. Our improved understanding of these and many other phenomena have been working their way into evolutionary theory, changing it and improving its correspondence with evolution in nature. And while the study of evolution is thriving both as a basic science to understand the world and in its applications in agriculture, medicine, and public health, the broad scope of evolution—operating across genes, whole organisms, clades, and ecosystems—presents a significant challenge for researchers seeking to integrate abundant new data and content into a general theory of evolution. This book gives us that framework and synthesis for the twenty-first century. The Theory of Evolution presents a series of chapters by experts seeking this integration by addressing the current state of affairs across numerous fields within evolutionary biology, ranging from biogeography to multilevel selection, speciation, and macroevolutionary theory. By presenting current syntheses of evolution's theoretical foundations and their growth in light of new datasets and analyses, this collection will enhance future research and understanding. Aimed at advanced undergraduate and graduate students, this textbook describes some of the basic principles affecting brain evolution. The author refers to data from a wide array of vertebrates while minimizing technical jargon. Particular attention has been paid to the ways in which changes in brain structure impact function and behavior. The volume concludes with a discussion on how mammal brains diverged from other brains and how Homo sapiens evolved a very large and special brain. Cabej (biology, U. of Tirana, Albania) explains the epigenetic principles of evolution (as opposed to the theory of evolution as determined by changes in genes) and reconstructs the developmental mechanisms of evolutionary changes in metazoans, based on empirical evidence. He focuses on the mechanisms of the generation of the evolutionary innovations from the influence of environment on heredity rather than the role of natural selection. He discusses control systems and determination of phenotypic traits in metazoans, neural manipulation of gene expression, epigenetic control of reproduction and early development, neural control of postphylogenic development, and the epigenetic system of inheritance. He follows with description of neural-developmental premises of evolutionary adaptation, including evolution and stress responses and behavioral adaptation to changes in environment, ontogeny, and intragenerational developmental plasticity; epigenetics of circumevolutionary phenomena and the mechanism of evolutionary change, including transgenerational developmental plasticity and the evolution of metazoans and their control system; and the origins of evolutionary novelty, evolution by loss or by reverting to ancestral characters, neural crest-determined evolutionary novelties, evolutionary convergences, species and allopatric speciation, and sympatric speciation. He presents the available evidence for his theory, rather than illustrating an established theory, and includes a comparative presentation of the neo-Darwinian view to his epigenetic explanation. There is no index. Annotation ©2012 Book News, Inc., Portland, OR (booknews.com). Written for those with a minimal science background, Evolution: Principles and Processes provides a concise introduction of evolutionary topics for the one-term course. Using an engaging writing style and a wealth of full-color illustrations, Hall covers all topics from the origin of universe, Earth, the origin of life, and on to how humans influence the evolution of other species. He brings together the principles and processes that explain evolutionary change and discusses the patterns of life that have resulted from the operation of evolution over the past 3.5 billion years. This overview, coupled with numerous case studies and examples, helps readers understand and truly appreciate the origin and diversity of life. Important Notice: The digital edition of this book is missing some of the images or content found in the physical edition. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. To ensure a quality reading experience, this work has been proofread and republished using a format that seamlessly blends the original graphical elements with text in an easy-to-read typeface. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant. Donald D. Clayton's Principles of Stellar Evolution and Nucleosynthesis remains the standard work on the subject, a popular textbook for students in astronomy and astrophysics and a rich sourcebook for researchers. The basic principles of physics as they apply to the origin and evolution of stars and physical processes of the stellar interior are thoroughly and systematically set out. Clayton's new preface, which includes commentary and selected references to the recent literature, reviews the most important research carried out since the book's original publication in 1968. This long awaited core textbook in the study of evolution takes a similar approach to the subject as Roger Lewin's classic HUMAN EVOLUTION text, but incorporates important discoveries and new evidence that have come to light since publication of the earlier versions. 154 illustrations. Principles of Evolution covers all aspects of the subject. Following an introductory section that provides necessary background, it has chapters on the evidence for evolution that cover the fossil record, DNA-sequence homologies, and protein homologies (evo-devo) It also includes a full history of life from the first universal common ancestor, through the rise of the eukaryote and on to the major groups of phyla. This section is followed by one on the mechanism of evolution with chapters on variation, selection and speciation. The main part of the book ends with a chapter on human evolution and this is followed by appendices that expand on the making of fossils, the history of the subject and creationism. Each behavioural science discipline focuses on distinct aspects of behaviour resulting in partial, conflicting, and incompatible models across the behavioural sciences. Interdisciplinary approaches seem to confuse rather than simplify the problem. Thus, we need to explore the integrating principles, which incorporate the primary area of interest from several behavioural science disciplines to resolve the crisis, achieve the explanatory goal and increase theoretical predictability. Power is pivotal in society and is key to understanding the inner dynamics of history and evolutionary behaviour. The concept of power is perhaps the most fundamental in the field of political science. I define; politics is the natural act of giving response to an external stimulus. The response is in the form of power; it is the stimulus to other individuals making a behavioural chain reaction. I generalized three interrelated principles of politics. Those principles describe how politics works, while simultaneously unifying the vertically and horizontally fragmented behavioural sciences from the power perspective, which is compatible with the evolutionary process. Based on a workshop held at the Santa Fe Institute in June, 1990, this book explores structure in organisms--both physical and dynamical--and presents the current status of the search for natural pathways, principles of organization, and the theory of design for organisms. Topics discussed include dynamical systems analysis; the pathways of evolution; development, physiology, and functional morphology; and the principles of dynamical change in connectivity within the networks of processes. This coursebook offers an exciting new approach to teaching criminal law to graduate and undergraduate students, and indeed to the general public. Each well-organized and student-friendly chapter offers historical context, tells the story of a principal historic case, provides a modern case that contrasts with the historic, explains the legal issue at the heart of both cases, includes a unique mapping feature describing the range of positions on the issue among the states today, examines a key policy question on the topic, and provides an aftermath that reports the final chapter to the historic and modern case stories. By embedding sophisticated legal doctrine and analysis in real-world storytelling, the book provides a uniquely effective approach to teaching American criminal law in programs on criminal justice, political science, public policy, history, philosophy, and a range of other fields. Pillars of Evolution provides a fresh and provocative perspective on adaptive evolution. Readers new to the study of evolution will find a refreshing new insight that establishes evolutionary biology as a rigorous and predictive science, whilst practicing biologists will discover a provocative book that challenges traditional approaches. The book begins by leading readers through the mechanics of heredity, reproduction, movement, survival, and development. With that framework in place, it then explores the numerous ways that traits emerge from the interactions between genetics, development, and the environment. The key message is that adaptive changes in traits (and their underlying allelic frequencies) evolve through the traits' functions and their connection with fitness. The complex mappings from genes-to-traits-to-fitness are characterized in the structure of evolution. A single "structure matrix" describes why individuals vary in the values of adaptive traits, their ability to perform the function of those traits, and in the fitness they accrue. Fitness depends on how organisms interact with and perceive their environment in time and space. These relationships are made explicit in spatial, temporal, and organizational scale that also sets the stage for the crucially important role that ecology always plays in evolution. The ecological hallmarks of density- and frequency-dependent interactions allow the authors to explore new and exciting insights into evolution's dynamics. The theories and principles are then brought together in a final synthesis on adaptation. The book's unique approach unites genetic, development, and environmental influences into a single comprehensive treatment of the eco-evolutionary process. This is the first and only book, so far, to deal with the causal basis of evolution from an epigenetic view. By revealing the epigenetic "user" of the "genetic toolkit", this book demonstrates the primacy of epigenetic mechanisms and epigenetic information in generating evolutionary novelties. The author convincingly supports his theory with a host of examples from the most varied fields of biology, by emphasizing changes in developmental pathways as the basic source of evolutionary change in metazoans. Original and thought provoking--a radically new theory that overcomes the present difficulties of the theory of evolution Is the first and only theory that uses epigenetic mechanisms and principles for explaining evolution of metazoans Takes an integrative approach and shows a wide range of learning Reproduction of the original: The Principles of Biology, Volume 1 by Herbert Spencer Principles of Evolution considers evolution in the context of systems biology, a contemporary approach for handling biological complexity. Evolution needs this systems perspective for three reasons. First, most activity in living organisms is driven by complex networks of proteins and this has direct implications, particularly for understanding evo-devo and for seeing how variation is initiated. Second, it provides the natural language for discussing phylogenetic trees. Third, evolutionary change involves events at levels ranging from the genome to the ecosystem

and systems biology provides a context for integrating material of this complexity. Understanding evolution means, on the one hand, describing the history of life and, on the other, making sense of the principles that drove that history. The solution adopted here is to make the science of evolution the primary focus of the book and place the various parts of the history of life in the context of the research that unpicks it. This means that the history is widely distributed across the text. This concise textbook assumes that the reader has a fair amount of biological knowledge and gives equal weight to all the major themes of evolution: the fossil record, phylogenetics, evodevo, and speciation. Principles of Evolution will therefore be an interesting and thought-provoking read for honors-level undergraduates, and graduates working in the biological sciences. Principles of Human Evolution presents an in-depth introduction to paleoanthropology and the study of human evolution. Focusing on the fundamentals of evolutionary theory and how these apply to ecological, molecular genetic, paleontological and archeological approaches to important questions in the field, this timely textbook will help students gain a perspective on human evolution in the context of modern biological thinking. The second edition of this successful text features the addition of Robert Foley, a leading researcher in Human Evolutionary Studies, to the writing team. Strong emphasis on evolutionary theory, ecology and behavior and scores of new examples reflect the latest evolutionary theories and recent archaeological finds. More than a simple update, the new edition is organized by issue rather than chronology, integrating behavior, adaptation and anatomy. A new design and new figure references make this edition more accessible for students and instructors. New author, Robert Foley – leading figure in Human Evolutionary Studies – joins the writing team. Dedicated website – www.blackwellpublishing.com/lewin – provides study resources and artwork downloadable for Powerpoint presentations. Beyond the Facts boxes – explore key scientific debates in greater depth. Margin Comments – indicate the key points in each section. Key Questions – review and test students' knowledge of central chapter concepts and help focus the way a student approaches reading the text. New emphasis on ecological and behavioral evolution – in keeping with modern research. Fully up to date with recent fossil finds and interpretations; integration of genetic and paleoanthropological approaches. A stunning new book by the most influential proponent of ecological and evolutionary explanations of human societies. The Principles of Biology - Vol. I is an unchanged, high-quality reprint of the original edition of 1881. Hanserbooks is editor of the literature on different topic areas such as research and science, travel and expeditions, cooking and nutrition, medicine, and other genres. As a publisher we focus on the preservation of historical literature. Many works of historical writers and scientists are available today as antiques only. Hanserbooks newly publishes these books and contributes to the preservation of literature which has become rare and historical knowledge for the future. The history of ecology. Populations. The community. Ecology and evolution. A theoretical study dealing chiefly with matters of definition and clarification of terms and concepts involved in using Darwinian notions to model social phenomena. This volume is the first of a series described in a prospectus originally distributed in March, 1860. Of that prospectus, the annexed is a reprint. A SYSTEM OF PHILOSOPHY. Mr. Herbert Spencer proposes to issue in periodical parts a connected series of works which he has for several years been preparing. Some conception of the general aim and scope of this series may be gathered from the following Programme. FIRST PRINCIPLES. PART I. The Unknowable.—Carrying a step further the doctrine put into shape by Hamilton and Mansel; pointing out the various directions in which Science leads to the same conclusions; and showing that in this united belief in an Absolute that transcends not only human knowledge but human conception, lies the only possible reconciliation of Science and Religion. PART II. Laws of the Knowable.—A statement of the ultimate principles discernible throughout all manifestations of the Absolute—those highest generalizations now being disclosed by Science which are severally true not of one class of phenomena but of all classes of phenomena; and which are thus the keys to all classes of phenomena. Evolutionary science is critical to an understanding of integrated human biology and is increasingly recognised as a core discipline by medical and public health professionals. Advances in the field of genomics, epigenetics, developmental biology, and epidemiology have led to the growing realisation that incorporating evolutionary thinking is essential for medicine to achieve its full potential. This revised and updated second edition of the first comprehensive textbook of evolutionary medicine explains the principles of evolutionary biology from a medical perspective and focuses on how medicine and public health might utilise evolutionary thinking. It is written to be accessible to a broad range of readers, whether or not they have had formal exposure to evolutionary science. The general structure of the second edition remains unchanged, with the initial six chapters providing a summary of the evolutionary theory relevant to understanding human health and disease, using examples specifically relevant to medicine. The second part of the book describes the application of evolutionary principles to understanding particular aspects of human medicine: in addition to updated chapters on reproduction, metabolism, and behaviour, there is an expanded chapter on our coexistence with micro-organisms and an entirely new chapter on cancer. The two parts are bridged by a chapter that details pathways by which evolutionary processes affect disease risk and symptoms, and how hypotheses in evolutionary medicine can be tested. The final two chapters of the volume are considerably expanded; they illustrate the application of evolutionary biology to medicine and public health, and consider the ethical and societal issues of an evolutionary perspective. A number of new clinical examples and historical illustrations are included. This second edition of a novel and popular textbook provides an updated resource for doctors and other health professionals, medical students and biomedical scientists, as well as anthropologists interested in human health, to gain a better understanding of the evolutionary processes underlying human health and disease. First Principles is a philosophical work by Herbert Spencer. The author presents his synthetic philosophy, where truth is divided into the unknowable and knowable. The first edition of this text appeared in 1994. Shortly after the third printing, our editor suggested that we attempt a second edition because new developments in stellar structure and evolution had made our original work outdated. We (the original authors, CJH and SDK) reluctantly agreed but with reservations due to the effort involved. Our initial reluctance disappeared when we were able to convince (cajole, twist the arm of, etc.) our new coauthor/colleague Virginia Trimble to join us. (Welcome Virginia!) We (i.e., all three of us) hope that you agree that the present edition is a great improvement compared to the 1994 effort. Our objectives in this edition are the same ones we set forth in 1994: What you will find is a text designed for our target audience: the typical senior undergraduate or beginning graduate student in astronomy or astrophysics who wishes an overview of stellar structure and evolution with just enough detail to understand the general picture. She or he can go on from there to more specialized texts or directly to the research literature depending on talent and interests. To this end, this text presents the basic physical principles without chasing all the (interesting!) details. For those of you familiar with the first edition, you will find that some things have not been changed substantially ($F = ma$ is still $F = ma$), while others definitely have. For example, Chapter 2 has been completely rewritten. Biological and economical systems have many aspects in common because they follow the same basic principles of evolution. One of the most precious messages from the field of biology is to admire and value the diversity of our planet. 'The Principle of Diversity' is a scientific and philosophical analysis that combines theoretical and practical insights of the phenomena occurring in both, biology and economics. Accordingly, good business administration is only possible with full knowledge of The Magic Triangle of the Economy. Recent developments in molecular and computational methods have made it possible to identify the genetic basis of any biological trait, and have led to spectacular advances in the study of human disease. This book provides an overview of the concepts and methods needed to understand the genetic basis of biological traits, including disease, in humans. Using examples of qualitative and quantitative phenotypes, Professor Weiss shows how genetic variation may be quantified, and how relationships between genotype and phenotype may be inferred. This book will appeal to many biologists and biological anthropologists interested in the genetic basis of biological traits, as well as to epidemiologists, biomedical scientists, human geneticists and molecular biologists.

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