

Evolutionary Analysis 5th Edition Torrent

The emergence of the World Wide Web, smartphones, and Computer-Mediated Communications (CMCs) profoundly affect the way in which people interact online and offline. Individuals who engage in socially unacceptable or outright criminal acts increasingly utilize technology to connect with one another in ways that are not otherwise possible in the real world due to shame, social stigma, or risk of detection. As a consequence, there are now myriad opportunities for wrongdoing and abuse through technology. This book offers a comprehensive and integrative introduction to cybercrime. It is the first to connect the disparate literature on the various types of cybercrime, the investigation and detection of cybercrime and the role of digital information, and the wider role of technology as a facilitator for social relationships between deviants and criminals. It includes coverage of: key theoretical and methodological perspectives, computer hacking and digital piracy, economic crime and online fraud, pornography and online sex crime, cyber-bullying and cyber-stalking, cyber-terrorism and extremism, digital forensic investigation and its legal context, cybercrime policy. This book includes lively and engaging features, such as discussion questions, boxed examples of unique events and key figures in offending, quotes from interviews with active offenders and a full glossary of terms. It is supplemented by a companion website that

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includes further students exercises and instructor resources. This text is essential reading for courses on cybercrime, cyber-deviancy, digital forensics, cybercrime investigation and the sociology of technology.

This new edition of a groundbreaking book is now in two volumes, on 'Fundamentals, Symptoms, and Conditions' on 'Reconstructive and Fertility Preserving Surgery and Procedures. From a distinguished editorial team and internationally recognized contributors the text educates surgeons on the techniques and procedures now needed in gynecology, with a special focus on reconstructive vaginal, hysteroscopic, laparoscopic, and laparotomic surgery, including that designed to preserve or enhance fertility. The reader can now more readily understand pathogenesis, appropriate investigation, and application of both surgical and nonsurgical strategies and techniques. The two volumes contain over 20 new chapters and in the integral ebook, over 140 instructional videos; each chapter has Key Points summarized.

This book represents the first comprehensive compilation of deliberations on botany; genetic resources; genetic diversity analysis; classical genetics & traditional breeding; in vitro culture & genetic transformation; detailed information on molecular maps & mapping of economic genes and QTLs; whole genome sequencing of the nuclear genome and sequencing of chloroplast genome; and elucidation of functional genomics. It also addresses alternate flowering, a unique problem in mango, and discusses currently available genomic resources and databases. Gathering contributions by globally reputed experts, the book will benefit the

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students, teachers, and scientists in academia and at private companies interested in horticulture, genetics, breeding, pathology, entomology, physiology, molecular genetics and breeding, in vitro culture & genetic engineering, and structural and functional genomics. The renowned biologist and thinker Richard Dawkins presents his most expansive work yet: a comprehensive look at evolution, ranging from the latest developments in the field to his own provocative views. Loosely based on the form of Chaucer's Canterbury Tales, Dawkins's Tale takes us modern humans back through four billion years of life on our planet. As the pilgrimage progresses, we join with other organisms at the forty "rendezvous points" where we find a common ancestor. The band of pilgrims swells into a vast crowd as we join first with other primates, then with other mammals, and so on back to the first primordial organism. Dawkins's brilliant, inventive approach allows us to view the connections between ourselves and all other life in a bracingly novel way. It also lets him shed bright new light on the most compelling aspects of evolutionary history and theory: sexual selection, speciation, convergent evolution, extinction, genetics, plate tectonics, geographical dispersal, and more. The Ancestor's Tale is at once a far-reaching survey of the latest, best thinking on biology and a fascinating history of life on Earth. Here Dawkins shows us how remarkable we are, how astonishing our history, and how intimate our relationship with the rest of the living world.

Can we trust our senses to tell us the truth? Challenging leading scientific theories that claim that our senses

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report back objective reality, cognitive scientist Donald Hoffman argues that while we should take our perceptions seriously, we should not take them literally. How can it be possible that the world we see is not objective reality? And how can our senses be useful if they are not communicating the truth? Hoffman grapples with these questions and more over the course of this eye-opening work. Ever since Homo sapiens has walked the earth, natural selection has favored perception that hides the truth and guides us toward useful action, shaping our senses to keep us alive and reproducing. We observe a speeding car and do not walk in front of it; we see mold growing on bread and do not eat it. These impressions, though, are not objective reality. Just like a file icon on a desktop screen is a useful symbol rather than a genuine representation of what a computer file looks like, the objects we see every day are merely icons, allowing us to navigate the world safely and with ease. The real-world implications for this discovery are huge. From examining why fashion designers create clothes that give the illusion of a more “attractive” body shape to studying how companies use color to elicit specific emotions in consumers, and even dismantling the very notion that spacetime is objective reality, *The Case Against Reality* dares us to question everything we thought we knew about the world we see.

In recognition of the fundamental control exerted by weathering on landscape evolution and topographic development, the 35th Binghamton Geomorphology Symposium was convened under the theme of Weathering and Landscape Evolution. The papers and

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posters presented at the conference imparted the state-of-the-art in weathering geomorphology, tackled the issue of scale linkage in geomorphic studies and offered a vehicle for interdisciplinary communication on research into weathering and landscape evolution. The papers included in this book are encapsulated here under the general themes of weathering mantles, weathering and relative dating, weathering and denudation, weathering processes and controls and the 'big picture'. * Contains 15 papers on the techniques and methodologies of research * Provides an up-to-date overview of various aspects of weathering and landscape evolution complemented by a number of excellent case studies * Contains a wealth of basic field data and relevant information

Blending the spirit of *Eats, Shoots & Leaves* with the science of *The Language Instinct*, an original inquiry into the development of that most essential-and mysterious-of human creations: Language Language is mankind's greatest invention-except, of course, that it was never invented." So begins linguist Guy Deutscher's enthralling investigation into the genesis and evolution of language. If we started off with rudimentary utterances on the level of "man throw spear," how did we end up with sophisticated grammars, enormous vocabularies, and intricately nuanced degrees of meaning? Drawing on recent groundbreaking discoveries in modern linguistics, Deutscher exposes the elusive forces of creation at work in human communication, giving us fresh insight into how language emerges, evolves, and decays. He traces the evolution of linguistic complexity from an early "Me

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Tarzan" stage to such elaborate single-word constructions as the Turkish *sehirlilestiremediklerimizdensiniz* ("you are one of those whom we couldn't turn into a town dweller"). Arguing that destruction and creation in language are intimately entwined, Deutscher shows how these processes are continuously in operation, generating new words, new structures, and new meanings. As entertaining as it is erudite, *The Unfolding of Language* moves nimbly from ancient Babylonian to American idiom, from the central role of metaphor to the staggering triumph of design that is the Semitic verb, to tell the dramatic story and explain the genius behind a uniquely human faculty.

This book provides a detailed overview on methods used for the dating of past torrential activity on fans and cones and fosters the discussion on the impact of past and potential future climate change on torrential processes.

The book has a clear focus on the practical applications of these methods, complemented by case studies. The limits of each dating method in case of excessive natural and human interventions on fans and cones are shown.

Shortlisted for the 2018 TWS Wildlife Publication Awards in the edited book category Decomposition and recycling of vertebrate remains have been understudied, hampered largely due to these processes being aesthetically challenging (e.g., smell and sight).

Technological innovations have provided the means to explore new and historically understood natural systems to give us a plethora of new information. *Carrion Ecology, Evolution, and Their Applications* covers a broad spectrum of topics including the molecular

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mechanistic foundations that provide the basis for intra- and interspecific interactions related to population biology, community ecology, and how this manifests into habitat- and ecosystem-level importance. The book connects the science of carrion decomposition from genes to ecosystems in multidisciplinary synthesis of the science. This book brings together a team of global experts involved with measuring and understanding the process and effects of carrion ecology in nature, with special application in such applied fields as forensic entomology, habitat management, animal production (e.g., livestock and aquaculture), and human and environmental health. It fills a large literature gap in ecology, providing a synthesis and future directions important for studies of carrion decomposition that improve the general understanding of decomposition in ecosystems. The book fuses multiple disciplines into a single message explaining the importance of vertebrate carrion ecology in nature. Illustrates Carrion Decomposition in a 16-Page Color Insert with 40 Photos

The authors illustrate how the study of carrion transcends the globe and expands systems of inquiry, broadening awareness of this important ecosystem process. Whether you are a student, academic, or professional, you will find this book insightful for the fields of molecular ecology, microbiology, entomology, forensics, population biology, community and ecosystem ecology, and human and environmental health.

Fluvial Geomorphology studies the biophysical processes acting in rivers, and the sediment patterns and landforms resulting from them. It is a discipline of

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synthesis, with roots in geology, geography, and river engineering, and with strong interactions with allied fields such as ecology, engineering and landscape architecture. This book comprehensively reviews tools used in fluvial geomorphology, at a level suitable to guide the selection of research methods for a given question. Presenting an integrated approach to the interdisciplinary nature of the subject, it provides guidance for researchers and professionals on the tools available to answer questions on river restoration and management. Thoroughly updated since the first edition in 2003 by experts in their subfields, the book presents state-of-the-art tools that have revolutionized fluvial geomorphology in recent decades, such as physical and numerical modelling, remote sensing and GIS, new field techniques, advances in dating, tracking and sourcing, statistical approaches as well as more traditional methods such as the systems framework, stratigraphic analysis, form and flow characterisation and historical analysis. This book: Covers five main types of geomorphological questions and their associated tools: historical framework; spatial framework; chemical, physical and biological methods; analysis of processes and forms; and future understanding framework. Provides guidance on advantages and limitations of different tools for different applications, data sources, equipment and supplies needed, and case studies illustrating their application in an integrated perspective. It is an essential resource for researchers and professional geomorphologists, hydrologists, geologists, engineers, planners, and ecologists concerned with river

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management, conservation and restoration. It is a useful supplementary textbook for upper level undergraduate and graduate courses in Geography, Geology, Environmental Science, Civil and Environmental Engineering, and interdisciplinary courses in river management and restoration.

Marcus and Feldman's Osteoporosis, Fifth Edition, is the most comprehensive, authoritative reference on this disease. Led by a new editorial team, this fifth edition offers critical information on reproductive and hormonal risk factors, new therapeutics, ethnicity, nutrition, therapeutics, management and economics, comprising a tremendous wealth of knowledge in a single source not found elsewhere. Written by renowned experts in the field, this two-volume reference is a must-have for biomedical researchers, research clinicians, fellows, academic and medical libraries, and any company involved in osteoporosis drug research and development. Summarizes the latest research in bone biology and translational applications in a range of new therapeutic agents, including essential updates on therapeutic uses of calcium, vitamin D, SERMS, bisphosphonates, parathyroid hormone, and new therapeutic agents Recognizes the critical importance of new signaling pathways for bone health, including Wnt, OPG and RANK, of interest to both researchers who study bone biology and clinicians who treat osteoporosis Offers new insights into osteoporosis associated with menopause, pre-menopause, chronic kidney disease, diabetes, HIV and other immune disorders Being a complex disease that affects millions of people

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world over, cancer research has assumed great significance. Translational cancer research transforms scientific discoveries in the laboratory into clinical application to reduce incidence of cancer, morbidity and mortality. On the other hand, personalized medicine in cancer is the concept that selection of a treatment should be tailored according to the individual patient's specific genomic characteristics, including mutations, chromosomal aberrations, protein interactions, and SNPs, and even more, taking into account the immune system, the metabolism and maybe in the next future also the microbiome.

Genomes 4 has been completely revised and updated. It is a thoroughly modern textbook about genomes and how they are investigated. As with Genomes 3, techniques come first, then genome anatomies, followed by genome function, and finally genome evolution. The genomes of all types of organism are covered: viruses, bacteria, fungi, plants, and animals including humans and other hominids. Genome sequencing and assembly methods have been thoroughly revised including a survey of four genome projects: human, Neanderthal, giant panda, and barley. Coverage of genome annotation emphasizes genome-wide RNA mapping, with CRISPR-Cas 9 and GWAS methods of determining gene function covered. The knowledge gained from these techniques forms the basis of the three chapters that describe the three main types of genomes: eukaryotic, prokaryotic (including eukaryotic organelles), and viral (including mobile genetic elements). Coverage of genome expression and replication is truly genomic,

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concentrating on the genome-wide implications of DNA packaging, epigenome modifications, DNA-binding proteins, non-coding RNAs, regulatory genome sequences, and protein-protein interactions. Also included are applications of transcriptome analysis, metabolomics, and systems biology. The final chapter is on genome evolution, focusing on the evolution of the epigenome, using genomics to study human evolution, and using population genomics to advance plant breeding. Established methods of molecular biology are included if they are still relevant today and there is always an explanation as to why the method is still important. Each chapter has a set of short-answer questions, in-depth problems, and annotated further reading. There is also an extensive glossary. Genomes 4 is the ideal text for upper level courses focused on genomes and genomics.

The only reference available that synthesizes this vast subspecialty into a single trustworthy resource, Cornea, 5th Edition, provides state-of-the-art coverage of the expanding range of contemporary corneal surgery, new diagnostic and imaging technologies, and medical management of corneal and external disease as well as ocular surface disease. Drs. Mark J. Mannis, Edward J. Holland, and a team of more than 200 global experts keep you up to date with both common and more obscure diseases and disorders and the best route to effective treatment and management, making this two-volume text a must-have resource for residents and fellows, general ophthalmologists, and seasoned cornea specialists. Features more than 2,300 exceptionally clear

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illustrations, diagnostic images, and step-by-step surgical photographs that offer superb visual guidance. Contains 14 new chapters, including Nanothin DSAEK, Aqueous Deficiency Dry Eye Syndrome, Evaluation of Recurrent Corneal Erosions, Evaluation of the Corneal Ulcer, Contemporary Approaches to the Biosynthetic Cornea, and Topography Guided Photorefractive Keratectomy, and more. Includes more than 80 video clips of current corneal surgery techniques, including new clips of the application of amniotic membrane penetrating keratoplasty, Descemet rupture management in DALK, and endothelial keratoplasty among others. Covers the latest developments in ocular surface transplantation, including new chapters on Conjunctival Limbal Autograft (CLAU); Living Related Conjunctival Limbal Allograft (Lr-CLAL); Keratolimbal Allograft; Cultivated Limbal Epithelial Transplantation; Simple Limbal Epithelial Transplantation; and Outcomes of Ocular Surface Transplantation. Provides key point overviews in each chapter that offer easier access to crucial information. Enhanced eBook version included with purchase. Your enhanced eBook allows you to access all of the text, figures, and references from the book on a variety of devices.

The well-known astronomer and astrobiologist surveys current knowledge of the development of intelligence on Earth in various forms of life and explains his persuasion that intelligence must have developed along similar lines throughout the universe

Quantitative traits-be they morphological or physiological characters, aspects of behavior, or genome-level

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features such as the amount of RNA or protein expression for a specific gene-usually show considerable variation within and among populations. Quantitative genetics, also referred to as the genetics of complex traits, is the study of such characters and is based on mathematical models of evolution in which many genes influence the trait and in which non-genetic factors may also be important. *Evolution and Selection of Quantitative Traits* presents a holistic treatment of the subject, showing the interplay between theory and data with extensive discussions on statistical issues relating to the estimation of the biologically relevant parameters for these models. Quantitative genetics is viewed as the bridge between complex mathematical models of trait evolution and real-world data, and the authors have clearly framed their treatment as such. This is the second volume in a planned trilogy that summarizes the modern field of quantitative genetics, informed by empirical observations from wide-ranging fields (agriculture, evolution, ecology, and human biology) as well as population genetics, statistical theory, mathematical modeling, genetics, and genomics. Whilst volume 1 (1998) dealt with the genetics of such traits, the main focus of volume 2 is on their evolution, with a special emphasis on detecting selection (ranging from the use of genomic and historical data through to ecological field data) and examining its consequences. For all the discussion in the media about creationism and 'Intelligent Design', virtually nothing has been said about the evidence in question - the evidence for evolution by natural selection. Yet, as this succinct and important

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book shows, that evidence is vast, varied, and magnificent, and drawn from many disparate fields of science. The very latest research is uncovering a stream of evidence revealing evolution in action - from the actual observation of a species splitting into two, to new fossil discoveries, to the deciphering of the evidence stored in our genome. Why Evolution is True weaves together the many threads of modern work in genetics, palaeontology, geology, molecular biology, anatomy, and development to demonstrate the 'indelible stamp' of the processes first proposed by Darwin. It is a crisp, lucid, and accessible statement that will leave no one with an open mind in any doubt about the truth of evolution. Filled with many examples of topic issues and current events, this book develops a basic understanding of how the natural world works and of how humans interact with the planet's natural ecosystems. It covers the history of ecology and describes the general approaches of the scientific method, then takes a look at basic principles of population dynamics and applies them to everyday practical problems.

Comprised of the papers presented at the eighth, and latest, International Conference Simulation in Risk Analysis and Hazard Mitigation, this book covers a topic of increasing importance. Scientific knowledge is essential to our better understanding of risk. Natural hazards such as floods, earthquakes, landslides, fires and others, have always affected human societies. Man-made hazards, however, played a comparatively small role until the industrial revolution when the risk of catastrophic events started to increase due to the rapid

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growth of new technologies and the urbanisation of populations. The interaction of natural and anthropogenic risks adds to the complexity of the problem. Due to advances in computational methods and the ability to model systems more precisely we can now quantify hazards, simulate their effects and calculate risk with greater accuracy, enabling us to manage risk much more effectively. These developments are particularly relevant to environmental issues, where substantial risks are involved. Governments, and their publics, now place a high priority on effective risk management and the mitigation of possible hazards. Covering topics such as: Estimation of Risk; Risk Management; Vulnerability; Geomorphologic Risk; Network Systems; Climate Change Risks; Hazard Prevention; Management and Control; Security and Public Safety; Transportation Safety; Safe Ship Operations; Early Warning Systems; Food Safety; Risk Perception; Natural Hazards; Technological Risk, the book will be of interest to planners, emergency managers, environmentalists, engineers, policy makers and other government officials, researchers and academics involved in the field of risk and disaster management.

Thirty years ago, biologists could get by with a rudimentary grasp of mathematics and modeling. Not so today. In seeking to answer fundamental questions about how biological systems function and change over time, the modern biologist is as likely to rely on sophisticated mathematical and computer-based models as traditional fieldwork. In this book, Sarah Otto and Troy Day provide biology students with the tools necessary to both

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interpret models and to build their own. The book starts at an elementary level of mathematical modeling, assuming that the reader has had high school mathematics and first-year calculus. Otto and Day then gradually build in depth and complexity, from classic models in ecology and evolution to more intricate class-structured and probabilistic models. The authors provide primers with instructive exercises to introduce readers to the more advanced subjects of linear algebra and probability theory. Through examples, they describe how models have been used to understand such topics as the spread of HIV, chaos, the age structure of a country, speciation, and extinction. Ecologists and evolutionary biologists today need enough mathematical training to be able to assess the power and limits of biological models and to develop theories and models themselves. This innovative book will be an indispensable guide to the world of mathematical models for the next generation of biologists. A how-to guide for developing new mathematical models in biology Provides step-by-step recipes for constructing and analyzing models Interesting biological applications Explores classical models in ecology and evolution Questions at the end of every chapter Primers cover important mathematical topics Exercises with answers Appendixes summarize useful rules Labs and advanced material available Bio-inspired design (also called biomimetics or biomimicry) is a promising approach for the development of innovative technical products – not only in mechanical engineering, but also in areas such as material science and even computer engineering. Innovations such as

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humanoid robots or multifunctional materials have shown the potential of bio-inspired design. However, in industrial companies, bio-inspired design remains an “exotic” approach which is rarely used in innovation practice. One reason for this is a lack of knowledge on how to implement bio-inspired design in practice.

Therefore, this guide book was written to explain the application of bio-inspired design methods and tools. The target groups are professional engineers and biologists, as well as students of both disciplines. The book presents a selection of methods for specific activities in bio-inspired design, namely: planning a bio-inspired design project, abstraction, search, analysis and comparison, and transfer of analogies. Factsheets give an overview of each method, its advantages and challenges, and its suitability for different bio-inspired design approaches and scenarios. To facilitate understanding, all methods are explained with the help of the same example. In addition, ten best practice examples show the practical applicability of bio-inspired design.

First published in 1998, this volume, spanning a lifetime's research, is a highly innovative first attempt at a consistent theoretical approach to the elements, structures and dynamics of the geography of agents, settlements and trade. Cause and effect are replaced by chance within constraints. Populations are substituted for unreal representative individuals, variability for uniformity, probabilistic process for unique history. Ignorance is a major factor in interpersonal and inter-areal commercial relations so that the focus is on flows

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of information and their effects on the efficiency of the economy or, alternatively, on changes in its information content. Recent work on spatial arrangements in many physical and social sciences is incorporated but always interpreted from an overriding geographical viewpoint. Key concepts are locational potential, distance friction, mobility, diffusion, spatial pattern and texture, adaptability, efficiency, spatial interaction and dependence. Analytic methods include autocovariance and transfer functions, areal special densities and entropy. Various forms of self-organization of economic spatial patterns are examined.

In a book that is both groundbreaking and accessible, Daniel C. Dennett, whom Chet Raymo of *The Boston Globe* calls "one of the most provocative thinkers on the planet," focuses his unerringly logical mind on the theory of natural selection, showing how Darwin's great idea transforms and illuminates our traditional view of humanity's place in the universe. Dennett vividly describes the theory itself and then extends Darwin's vision with impeccable arguments to their often surprising conclusions, challenging the views of some of the most famous scientists of our day.

This book is a compilation of chapters written by leading researchers from all over the world. Those researchers' common characteristic is that they have investigated issues at the intersection of the fields of information systems (IS) and evolutionary psychology (EP). The main goal of this book is to serve as a reference for IS research building on EP concepts and theories (in short, IS-EP research). The book is organized in three main

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parts: Part I focuses on EP concepts and theories that can be used as a basis for IS-EP research; Part II provides several exemplars of IS-EP research in practice; and Part III summarizes emerging issues and debate that can inform IS-EP research, including debate regarding philosophical foundations and credibility of related findings. IS-EP research is generally concerned with the use of concepts and theories from EP in the study of IS, particularly regarding the impact of modern information and communication technologies on the behavior of individuals, groups, and organizations. From a practitioners' perspective, the most immediate consumers of IS-EP research are those who develop and use IS, of which a large contingent are in businesses that employ IS to support marketing, order-taking, production, and delivery of goods and services. In this context, IS-EP findings may be particularly useful due to the present need to design web-based interfaces that will be used by individuals from different cultures, and often different countries, and whose common denominator is their human nature.

A definitive guide to the depth and breadth of the ecological sciences, revised and updated The revised and updated fifth edition of *Ecology: From Individuals to Ecosystems* – now in full colour – offers students and practitioners a review of the ecological sciences. The previous editions of this book earned the authors the prestigious 'Exceptional Life-time Achievement Award' of the British Ecological Society – the aim for the fifth edition is not only to maintain standards but indeed to enhance its coverage of Ecology. In the first edition, 34

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years ago, it seemed acceptable for ecologists to hold a comfortable, objective, not to say aloof position, from which the ecological communities around us were simply material for which we sought a scientific understanding. Now, we must accept the immediacy of the many environmental problems that threaten us and the responsibility of ecologists to play their full part in addressing these problems. This fifth edition addresses this challenge, with several chapters devoted entirely to applied topics, and examples of how ecological principles have been applied to problems facing us highlighted throughout the remaining nineteen chapters. Nonetheless, the authors remain wedded to the belief that environmental action can only ever be as sound as the ecological principles on which it is based. Hence, while trying harder than ever to help improve preparedness for addressing the environmental problems of the years ahead, the book remains, in its essence, an exposition of the science of ecology. This new edition incorporates the results from more than a thousand recent studies into a fully up-to-date text. Written for students of ecology, researchers and practitioners, the fifth edition of *Ecology: From Individuals to Ecosystems* is an essential reference to all aspects of ecology and addresses environmental problems of the future.

This comprehensive introductory text integrates evolutionary, ecological, and demographic perspectives with new results from field studies and contemporary noninvasive molecular and hormonal techniques to understand how different primates behave and the

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significance of these insights for primate conservation. Each chapter is organized around the major research themes in the field, with Strier emphasizing the interplay between theory, observations, and conservation issues. Examples are drawn from the "classic" primate field studies as well as more recent studies, including many previously neglected species, to illustrate the vast behavioral variation that exists across the primate order. Primate Behavioral Ecology 6th Edition integrates the impacts of anthropogenic activities on primate populations, including zoonotic disease and climate change, and considers the importance of behavioral flexibility for primate conservation. This fully updated new edition brings exciting new methods, theoretical perspectives, and discoveries together to provide an incomparable overview of the field of primate behavioral ecology and its applications to primate conservation. It is considered to be a "must read" for all students interested in primates.

Mental disorders arise from neural and psychological mechanisms that have been built and shaped by natural selection across our evolutionary history. Looking at psychopathology through the lens of evolution is the only way to understand the deeper nature of mental disorders and turn a mass of behavioral, genetic, and neurobiological findings into a coherent, theoretically grounded discipline. The rise of evolutionary psychopathology is part of an exciting scientific movement in psychology and medicine -- a movement that is fundamentally transforming the way we think about health and disease. Evolutionary Psychopathology

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takes steps toward a unified approach to psychopathology, using the concepts of life history theory -- a biological account of how individual differences in development, physiology and behavior arise from tradeoffs in survival and reproduction -- to build an integrative framework for mental disorders. This book reviews existing evolutionary models of specific conditions and connects them in a broader perspective, with the goal of explaining the large-scale patterns of risk and comorbidity that characterize psychopathology. Using the life history framework allows for a seamless integration of mental disorders with normative individual differences in personality and cognition, and offers new conceptual tools for the analysis of developmental, genetic, and neurobiological data. The concepts presented in Evolutionary Psychopathology are used to derive a new taxonomy of mental disorders, the Fast-Slow-Defense (FSD) model. The FSD model is the first classification system explicitly based on evolutionary concepts, a biologically grounded alternative to transdiagnostic models. The book reviews a wide range of common mental disorders, discusses their classification in the FSD model, and identifies functional subtypes within existing diagnostic categories. This book presents insights into the complex processes controlling sediment behavior in river basins and into state of the art integrated sediment management concepts. Main topics are: sediment transport, modelling sediment transfer in rivers, sediment quality, sediment monitoring and integrated sediment management at catchment scale. Interlinkages of sediment dynamics

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and quality with biogeochemistry, ecology, climate change and human activities are discussed. Drivers, boundary conditions and processes of erosion, sediment transport and sedimentation are presented with the aim to help the reader putting sediment quantity and quality issues into perspective.

This comprehensive three-volume text covers every aspect of the cornea and external eye: basic science, examination and imaging, eye banking, diagnosis, and medical and surgical management. It is edited by three leaders in corneal disease. Computer enhanced images and artists' drawings supplement the text. Most complete and largest reference published on the cornea. Every aspect of the cornea is covered in this three volume, contributed text: basic science, medical, and surgical, plus practical overviews of eye banking and examination techniques Edited by three nationally renowned corneal specialists who are deemed to be leaders in the ophthalmic community. Computer enhanced illustrations throughout the text. Only reference on the cornea to have a corresponding full-color atlas and slides. Extensive sections on eye banking and corneal manifestations of systemic disease. Extensive up to date reference lists accompany each chapter. Carefully reviewed and tightly edited by the editors

The morphology of Earth's surface reflects the interaction of climate, tectonics and denudational processes operating over a wide range of spatial and temporal scales. These processes can be considered catastrophic or continuous; depending on the timescale of observation or interest. Recent research had required integration of historically distinct subjects such as geomorphology, sedimentology, climatology and tectonics. Together, these have provided new insights into absolute and relative rates of denudation, and the factors that control the

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many dynamic processes involved. Specific subject areas covered are sediment transport processes and the timescales of competing processes, the role of the geological record and landscapes in constraining different processes, the nature of landscape evolution at different spatial scales and in contrasting geological environments.

The theory of evolution unites the past, present, and future of living things. It puts humanity's place in the universe into necessary perspective. Despite a history of controversy, the evidence for evolution continues to accumulate as a result of many separate strands of amazing scientific sleuthing. In *The Story of Evolution in 25 Discoveries*, Donald R. Prothero explores the most fascinating breakthroughs in piecing together the evidence for evolution. In twenty-five vignettes, he recounts the dramatic stories of the people who made crucial discoveries, placing each moment in the context of what it represented for the progress of science. He tackles topics like what it means to see evolution in action and what the many transitional fossils show us about evolution, following figures from Darwin to lesser-known researchers as they unlock the mysteries of the fossil record, the earth, and the universe. The book also features the stories of animal species strange and familiar, including humans—and our ties to some of our closest relatives and more distant cousins. Prothero's wide-ranging tales showcase awe-inspiring and bizarre aspects of nature and the powerful insights they give us into the way that life works. Brisk and entertaining while firmly grounded in fundamental science, *The Story of Evolution in 25 Discoveries* is a captivating read for anyone curious about the evidence for evolution and what it means for humanity.

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