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The Behavior of Animals-Johan J. Bolhuis 2004-12-17 This wide-ranging textbook provides a broad overview of the current state of animal behavior studies. An ideal textbook for undergraduate and graduate courses in biology, experimental psychology and neuroscience. Comprises a series of contributions from international experts. Represents a diverse set of approaches to animal behavior. Ranges across the subject all levels, from molecules and neurons to individuals and populations. Draws on the work of the pioneering Dutch ethologist, Niko Tinbergen. Addresses all four of Tinbergen's key questions: causation, development, function, and evolution. Deals with contemporary subjects, such as animal welfare, conservation, neurobiology, and animal cognition.

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Animal Behaviour: Evolution and Mechanisms-Nils Anthes 2010-04-03 This up-to-date review examines key areas of animal behaviour, including communication, cognition, conflict, cooperation, sexual selection and behavioural variation. Various tests are covered, including recent empirical examples.

Animal Behavior-Lee C. Drickamer 1996

Animal Behavior-Michael D. Breed 2015-05-16 Animal Behavior, Second Edition, covers the broad sweep of animal behavior from its neurological underpinnings to the importance of behavior in conservation. The authors, Michael Breed and Janice Moore, bring almost 60 years of combined experience as university professors to this textbook, much of that teaching animal behavior. An entire chapter is devoted to the vibrant new field of behavior and conservation, including topics such as social behavior and the relationship between parasites, pathogens, and behavior. Thoughtful coverage has also been given to foraging behavior, mating and parenting behavior, anti-predator behavior, and learning. This text addresses the physiological foundations of behavior in a way that is both accessible and inviting, with each chapter beginning with learning objectives and ending with thought-provoking questions. Additionally, special terms and definitions are highlighted throughout. Animal Behavior provides a rich resource for students (and professors) from a wide range of life science disciplines. Provides a rich resource for students and professors from a wide range of life science disciplines Updated and revised chapters, with at least 50% new case studies and the addition of contemporary in-text examples Expanded and updated coverage of animal welfare topics Includes behavior and homeostatic mechanisms, behavior and conservation, and behavioral aspects of disease Available lab manual with fully developed and tested laboratory exercises Companion website includes newly developed slide sets/templates (PowerPoints) coordinated with the book

Animal Behavior-Mark Ridley 1995-02-27 This classic textbook is a concise introductory guide to the subject of animal behavior. The book is organized by first building the four-cornered foundations of the subject, then moving higher. In an extremely well-organized progression, the student is lead to an understanding of the essential topics, explained in logical self-contained units. Each chapter ends with suggestions for further reading. In this second edition, the coverage of mechanisms of behavior is much expanded, as is the material on evolution and natural selection. The chapter on development includes much of the new work on learning and memory, especially song-learning in birds. Indeed throughout the book, examples are drawn from recent ground-breaking research. The latest edition of the textbook of choice in animal behaviour Extremely well illustrated and including many classic photos by Niko Tinbergen Uniquely well suited as an introductory text - designed for student use with a clear and logical organization founded on self-contained units

Animal Behavior: Mechanisms, Ecology, Evolution-Lee Drickamer 2001-07-17 Designed for a one-semester introductory course in Animal Behavior. Animal behavior is a broad discipline with investigators and contributions from diverse perspectives, including anthropology, comparative psychology, ecology, ethology, physiology, and zoology. The authors goal in this textbook is to use evolutionary principles as a unifying theme to provide students exposure to a number of approaches to the field of animal behavior. They also demonstrate that the varied perspectives used to study behavior are complementary and often integrated; they are not mutually exclusive. The subtitle, "Mechanisms, Ecology, and Evolution," reflects the broad themes that dominate the book.

Mechanisms of Animal Behavior-Peter Marler 1967

Behavioral Mechanisms in Evolutionary Ecology-Leslie Real 1994-11-30 The first book-length exploration of behavioral mechanisms in evolutionary ecology, this ambitious volume illuminates long-standing questions about cause-and-effect relations between an animal's behavior and its environment. By focusing on biological mechanisms—the sum of an animal's cognitive, neural, developmental, and hormonal processes—leading researchers demonstrate how the integrated study of animal physiology, cognitive processes, and social interaction can yield an enriched understanding of behavior. With studies of species ranging from insects to primates, the contributors examine how various animals identify and use environmental resources and deal with ecological constraints, as well as the roles of learning, communication, and cognitive aspects of social interaction in behavioral evolution. Taken together, the chapters demonstrate how the study of internal mechanistic foundations of behavior in relation to their ecological and evolutionary contexts and outcomes provides valuable insight into such behaviors as predation, mating, and dispersal. Behavioral Mechanisms in Evolutionary Ecology shows how a mechanistic approach unites various levels of biological organization to provide a broader understanding of the biological bases of behavioral evolution.

Animal Behaviour-Christopher J. Barnard 2004 Animal behaviour has been one of the fastest-growing scientific disciplines of recent years. Its impact on the way we think about biology has spawned lucid 'best sellers' like The Selfish Gene and widespread scientific and public debate about our view of the natural world and our place in it. This book provides a comprehensive introduction to the study of behaviour, from its basis in the animal's anatomy and physiology to its adaptive value in the environment. It is aimed at undergraduate students in the biological sciences and psychology and is designed to serve as both a detailed introduction and an extensive, up-to-date source of reference enabling students to pursue topics in the primary literature.

Behavioral Mechanisms in Ecology-Douglass H. Morse 1980 This readable text represents a much needed synthesis of ecological insight into animal behavior. Exploring the theme of resource acquisitions, Morse combines the comparative approach to biology with models based on evolutionary theory. This book will meet the teaching and reference needs of an extremely broad audience of professional biologists.

Neural Networks and Animal Behavior-Magnus Enquist 2013-12-03 How can we make better sense of animal behavior by using what we know about the brain? This is the first book that attempts to answer this important question by applying neural network theory. Scientists create Artificial Neural Networks (ANNs) to make models of the brain. These networks mimic the architecture of a nervous system by connecting elementary neuron-like units into networks in which they stimulate or inhibit each other's activity in much the same way neurons do. This book shows how scientists can employ ANNs to analyze animal behavior, explore the general principles of the nervous systems, and test

potential generalizations among species. The authors focus on simple neural networks to show how ANNs can be investigated by math and by computers. They demonstrate intuitive concepts that make the operation of neural networks more accessible to nonspecialists. The first chapter introduces various approaches to animal behavior and provides an informal introduction to neural networks, their history, and their potential advantages. The second chapter reviews artificial neural networks, including biological foundations, techniques, and applications. The following three chapters apply neural networks to such topics as learning and development, classical instrumental condition, and the role of genes in building brain networks. The book concludes by comparing neural networks to other approaches. It will appeal to students of animal behavior in many disciplines. It will also interest neurobiologists, cognitive scientists, and those from other fields who wish to learn more about animal behavior.

Hormones and Animal Social Behavior-Elizabeth Adkins-Regan 2013-12-03 Research into the lives of animals in their natural environments has revealed a rich tapestry of complex social relationships and previously unsuspected social and mating systems. The evolution of this behavior is increasingly well understood. At the same time, laboratory scientists have made significant discoveries about how steroid and peptide hormones act on the nervous system to shape behavior. An exciting and rapidly progressing hybrid zone has developed in which these two fields are integrated, providing a fuller understanding of social behavior and the adaptive functions of hormones. This book is a guide to these fascinating connections between animal social behavior and steroid and peptide hormones--a synthesis designed to make it easier for graduate students and researchers to appreciate the excitement, engage in such integrative thinking, and understand the primary literature. Throughout, Elizabeth Adkins-Regan emphasizes concepts and principles, hypothesis testing, and critical thinking. She raises unanswered questions, providing an unparalleled source of ideas for future research. The chapter sequence is by levels of biological organization, beginning with the behavior and hormones of individuals, proceeding to social relationships and systems, and from there to development, behavioral evolution over relatively short time scales, life histories and their evolution, and finally evolution over longer time scales. The book features studies of a wide variety of wild and domestic vertebrates along with some of the most important invertebrate discoveries.

Behavioural Mechanisms of Food Selection-Roger N. Hughes 2013-06-29 Behavioural Mechanisms of Food Selection examines animals belonging to diverse trophic groups, from carnivores, herbivores, micro-algal grazers, to filter-feeders and detritus-feeders. In the past Optimal Foraging Theory has been applied to all these groups, but in different ways and in disciplines that rarely overlap. Here concepts and developments hitherto scattered in the literature are drawn together. This uniquely broad synthesis captures the state of the art in the study of diet selection and prescribes new objectives in theoretical development and research.

Functional and Neural Mechanisms of Interval Timing-Warren H. Meck 2003-03-24 Understanding temporal integration by the brain is expected to be among the premier topics to unite systems, cellular, computational, and cognitive neuroscience over the next decade. The phenomenon has been studied in humans and animals, yet until now, there has been no publication to successfully bring together the latest information gathered from Neural Mechanisms of Startle Behavior-Robert C. Eaton 1984-10 In the past fifteen years there has been considerable interest in neural circuits that initiate behavior patterns. For many types of behaviors, this involves decision-making circuits whose primary elements are neither purely sensory nor motor, but represent a higher order of neural processing. Of the large number of studies on such systems, analyses of startle circuits compose a major portion, and have been carried out on systems found throughout the animal kingdom. Startle has been an important model because of the reliability of the behavioral act for laboratory study and the accessibility of the underlying neural circuitry. However, probably because of the breadth of the subject, this material has never been reviewed in a comprehensive way that presents the elements common to startle circuits in the different animal systems in which they occur. This book presents a diversity of approaches based on a broad background of animal groups ranging from the earliest nervous systems in cnidarians to the most recently evolved and advanced in mammals. The behaviors themselves are all short latency, fast motor acts, when considered on the time scale of the organism, and involve avoidance or evasion, although in some cases we do not yet completely understand their natural role. These behaviors occur in response to stimuli that have sudden or unexpected onset.

The Study of Behavior-Jerry A. Hogan 2017-10-31 This book provides a unique framework for understanding diverse issues across behavior studies, facilitating collaboration between sub-disciplines.

Genetics and the Behavior of Domestic Animals-Temple Grandin 2013-04-22 Over-selection for production traits has caused animal welfare problems such as feather pecking in hens, tail biting in pigs, and overly aggressive animals. In dogs, over-selection for appearance traits has caused neurological problems such as deafness. Both feather pecking and tail biting may be displaced foraging behaviors, because these behaviors are reduced by providing foraging materials such as straw. Another problem is hunger in broiler breeder hens and breeding sows. Animals that have been selected for rapid growth are also selected for a huge appetite. If breeder animals eat to satiation, they will become obese and have health problems. High-roughage feeds may improve welfare. Researchers suggest that new genetic breeding tools could be used to select against harmful behaviors and still have a productive animal. Breeders must avoid creating animals that will have poor welfare even when they are housed in the best environment.

Ethology-James L. Gould 1982 A history of ethology explains the neural and evolutionary mechanisms of behavior, the relationship of behavior to genetics, and the social and complex behavior of animals and humans

Adaptive Behavior and Learning-J. E. R. Staddon 2016-02-29 Summarizes the current state of both theoretical and experimental knowledge about learning in animals.

Insect Defenses-David L. Evans 1990-01-01 This work takes a fresh, modern approach to investigate and explain the predator and prey relationships of insects and spiders, the major terrestrial fauna on earth. Devoted to broad and in-depth analysis of arthropod defenses against predators, the book's approach is both experimentally and theoretically based with major emphasis on evolution, predator strategies and tactics, and prey defensive adaptations and behaviors. The authors explain such topics as cryptic and aposematic coloration, the conflict between sexual and survival needs, web spider prey choice and evolution of prey counter defenses, predator-prey interactions and the origins of intelligence, bird predatory tactics, and caterpillar defense strategies. Also examined is the use of timing for fitness and survival, evolutionary gamesmanship in the predatory bat-moth relationship, colony defense by paper wasps, startle as a defense by moths, aggregation as a defense, chemicals as defenses, plant chemicals as defenses, and venoms as defenses. The authors illustrate each topic with numerous specific well-documented examples presented in a clear, readable style.

Psychological Mechanisms in Animal Communication-Mark A. Bee 2017-01-26 This book analyzes the psychological mechanisms critical to animal communication. The topics covered range from single neurons to broad-scale phylogenetic patterns, shedding new light on the sensory, perceptual, and cognitive processes that underlie the communicative behaviors of signalers and receivers alike. In so doing, the contributing authors collectively integrate research questions and methods from behavioral ecology, cognitive ethology, comparative psychology, evolutionary biology, sensory ecology, and neuroscience. No less broad is the volume's taxonomic coverage, which spans bees to blackbirds to baboons. The ultimate goal of the book is to stimulate additional research into the diversity and evolution of the psychological mechanisms that make animal communication possible.

Intelligent Behavior in Animals and Robots-David McFarland 1993 Intelligence takes many forms. This exciting study explores the novel insight, based on well-established ethological principles, that animals, humans, and autonomous robots can all be analyzed as multi-task autonomous control systems. Biological adaptive systems, the authors argue, can in fact provide a better understanding of intelligence and rationality than that provided by traditional AI. In this technically sophisticated, clearly written investigation of robot-animal analogies, McFarland and Bösner show that a bee's accuracy in navigating on a cloudy day and a moth's simple but effective hearing mechanisms have as much to teach us about intelligent behavior as human models. In defining intelligent behavior, what matters is the behavioral outcome, not the nature of the mechanism by which the outcome is achieved. Similarly, in designing robots capable of intelligent behavior, what matters is the behavioral outcome. McFarland and Bösner address the problem of how to assess the consequences of robot behavior in a way that is meaningful in terms of the robot's intended role, comparing animal and robot in relation to rational behavior, goal seeking, task accomplishment, learning, and other important theoretical issues. David McFarland is Reader in Animal Behaviour at the University of Oxford. Thomas Bösner is Head of the Man Machine Research Group at Westfälische Wilhelms Universität, in Münster, and a partner in the consulting firm Advanced Concepts.

Mechanisms of Animal Discrimination Learning-N. S. Sutherland 2016-01-22 Mechanisms of Animal Discrimination Learning provides a review of the field of animal discrimination learning, with discussions into other areas such as generalization, partial reinforcement, and some aspects of comparative psychology. This book elaborates the origins of continuity-noncontinuity controversy, analysis of attentional learning, Lashley and Wade's account of generalization, and evidence for a two-process analysis of the ORE. The reversal and nonreversal shifts, response unit hypothesis, inconsistent reinforcement and extinction of choice behavior, and aims and problems of comparative psychology are likewise described. This text likewise covers the Zeaman and House model, Lovejoy's Model III, determinants of generalization gradients, cognitive dissonance hypothesis, and theoretical relevance of comparative psychology. This publication is a good source for biologists and researchers concerned with animal discrimination learning.

Conceptual Breakthroughs in Ethology and Animal Behavior-Michael D. Breed 2017-01-25 Conceptual Breakthroughs in Ethology and Animal Behavior highlights, through concise summaries, the most important discoveries and scientific

revolutions in animal behavior. These are assessed for their relative impact on the field and their significance to the forward motion of the science of animal behavior. Eighty short essays capture the moment when a new concept emerged or a publication signaled a paradigm shift. How the new understanding came about is explained, and any continuing controversy or scientific conversation on the issue is highlighted. Behavior is a rich and varied field, drawing on genetics, evolution, physiology, and ecology to inform its principles, and this book embraces the wealth of knowledge that comes from the unification of these fields around the study of animals in motion. The chronological organization of the essays makes this an excellent overview of the history of animal behavior, ethology, and behavioral ecology. The work includes such topics as Darwin's role in shaping the study of animal behavior, the logic of animal contests, cognition, empathy in animals, and animal personalities. Succinct accounts of new revelations about behavior through scientific investigation and scrutiny reveal the fascinating story of this field. Similar to Dr. John Avise's *Contemporary Breakthroughs in Evolutionary Genetics*, the work is structured into vignettes that describe the conceptual revolution and assess the impact of the conceptual change, with a score, which ranges from 1-10, providing an assessment of the impact of the new findings on contemporary science. Features a lively, brisk writing style and brief entries to enable easy, enjoyable access to this essential information. Includes topics that cover the range of behavioral biology from mechanism to behavioral ecology. Can also be used as supplemental material for an undergraduate animal behavior course, or as the foundational text for an upper level or graduate discussion course in advanced animal behavior.

Behavior of Lizards-Vincent Bels 2019-02-06 Key features: Presents a contemporary snapshot of the mechanisms underlying the evolution and adaptation of behavior. Explores how genetics, epigenetics, development, and environment shape behavior. Discusses a broad range of behavioral repertoires and responses, including those related to thermoregulatory, foraging, predatory, displaying, social and escape strategies. Examines physiological and sensory mechanisms. Covers the effects of various aspects of global change on behavior, with chapters that focus on the impacts of climate change on hydroregulatory behavior and behavioral responses to the effects of habitat alteration resulting from human-mediated change and colonization by invasive species. Lizards serve as focal organisms for many of biological questions related to evolution, ecology, physiology, and morphology. They are studied at multiple spatial and temporal scales, from the individual to the community level. This book, authored by expert contributors from around the world, explores behaviors underlying the evolution and adaptation of these organisms. It covers conceptual, empirical, and methodological approaches to the understanding of the role that natural and sexual selection play in molding the behavioral traits of lizards. This thorough, illustrated reference should stimulate discussion of the conceptual and methodological approaches for studying the behavioral traits of these fascinating and highly diverse vertebrates.

Insect Behavior-Alex Córdoba-Aguilar 2018-07-19 Insects display a staggering diversity of behaviors. Studying these systems provides insights into a wide range of ecological, evolutionary, and behavioral questions including the genetics of behavior, phenotypic plasticity, chemical communication, and the evolution of life-history traits. This accessible text offers a new approach that provides the reader with the necessary theoretical and conceptual foundations, at different hierarchical levels, to understand insect behavior. The book is divided into three main sections: mechanisms, ecological and evolutionary consequences, and applied issues. The final section places the preceding chapters within a framework of current threats to human survival - climate change, disease, and food security - before providing suggestions and insights as to how we can utilize an understanding of insect behavior to control and/or ameliorate them. Each chapter provides a concise, authoritative review of the conceptual, theoretical, and methodological foundations of each topic.

Molecular Biology of the Cell-Bruce Alberts 2004

Geographic Variation in Behavior-Susan A. Foster 1999-03-04 Studies of animal behavior often assume that all members of a species exhibit the same behavior. *Geographic Variation in Behavior* shows that, on the contrary, there is substantial variation within species across a wide range of taxa. Including work from pioneers in the field, this volume provides a balanced overview of research on behavioral characteristics that vary geographically. The authors explore the mechanisms by which behavioral differences evolve and examine related methodological issues. Taken together, the work collected here demonstrates that genetically based geographic variation may be far more widespread than previously suspected. The book also shows how variation in behavior can illuminate both behavioral evolution and general evolutionary patterns. Unique among books on behavior in its emphasis on geographic variation, this volume is a valuable new resource for students and researchers in animal behavior and evolutionary biology.

Social Learning-William Hoppitt 2013-07-21 Many animals, including humans, acquire valuable skills and knowledge by copying others. Scientists refer to this as social learning. It is one of the most exciting and rapidly developing areas of behavioral research and sits at the interface of many academic disciplines, including biology, experimental psychology, economics, and cognitive neuroscience. *Social Learning* provides a comprehensive, practical guide to the research methods of this important emerging field. William Hoppitt and Kevin Laland define the mechanisms thought to underlie social learning and demonstrate how to distinguish them experimentally in the laboratory. They present techniques for detecting and quantifying social learning in nature, including statistical modeling of the spatial distribution of behavior traits. They also describe the latest theory and empirical findings on social learning strategies, and introduce readers to mathematical methods and models used in the study of cultural evolution. This book is an indispensable tool for researchers and an essential primer for students. Provides a comprehensive, practical guide to social learning research. Combines theoretical and empirical approaches. Describes techniques for the laboratory and the field. Covers social learning mechanisms and strategies, statistical modeling techniques for field data, mathematical modeling of cultural evolution, and more.

The Behavioral Significance of Color-Edward H. Burt, Jr. 2018-02-19 Prior to publication the study of animal coloration was plagued by fanciful speculations, post hoc explanations and untestable hypotheses. This title, originally published in 1979, draws together widely scattered research into the coloration of animals; formulates predictive hypotheses to account for color; documents the accuracy of many of these hypotheses; and suggests directions for future research. The book grew out of a symposium, *The Behavioral Significance of Color* at the 1977 meeting of the Animal Behavior Society, and presents evidence concerning patterns of coloration and their influence on animal behaviour and interaction. Physical principles of radiation are discussed in Chapter 1, followed, in subsequent chapters, by an examination of the physiological functions of animal coloration (e.g. thermoregulation, hydroregulation, abrasion-resistance, extraretinal photoreception). Treatment of coloration that affects the animal's visibility to other animals opens with a masterful overview of theories of color vision and its occurrence throughout the animal kingdom. Chapter 6 explores the role of color vision and fruit color in the selection of food by wild primates with comments on the coevolution of fruiting trees and their primate customers. Dr Jack P. Hailman addresses the elusive concept of conspicuousness. He summarizes a strategy for calculating conspicuous coloration based on measurements in natural habitats. Experiments, naturalistic observations and anecdotes of optical communication are exceedingly numerous. Chapters 8 and 9 review these data and suggest general principles of inter- and intraspecific optical communication. Each chapter is enhanced by the critical evaluations of Drs. C. Richard Tracy and W. J. Hamilton III. In closing, the editor discusses coloration as it affects an animal's own vision (e.g., black eyelines to reduce glare). Most significantly the book emphasizes the need for a balanced, scientifically rigorous approach to the question of evolution of animal coloration. It is an important source for anyone contemplating or currently involved in research in this field of investigation.

Searching Behaviour-W.J. Bell 2012-12-06 This is a book about proximate mechanisms. Although some theoretical structure is used to introduce the subject, the intent is to offer a comprehensive view of the mechanistic side of searching (or foraging) so as to balance the current emphasis of books on mathematical and functional models. It seems to me that the pendulum needs to swing back to studies of how animals behave, and that maybe in so doing models will become valuable again in driving experimentation. I have probably included too many examples in this book, and some are even presented in great detail. Hopefully, they provide a complete picture of the kind of animals used, the experimental setup, the kinds of data yielded, and how the data were analysed. I have done this in response to frustrating experiences of reading chapters in behavioural ecology books that provide insufficient information with which to evaluate an author's conclusion.

Information Processing in Animals-N. E. Spear 2014-02-24 First published in 1982. Routledge is an imprint of Taylor & Francis, an informa company.

Cooperation in Primates and Humans-Peter M. Kappeler 2005-11-29 Cooperative behaviour has been one of the enigmas of evolutionary theory. This book examines the many facets of cooperative behaviour in primates and humans. It bridges the gap between parallel research in primatology and studies of humans, and highlights both common principles and aspects of human uniqueness, with respect to cooperative behaviour.

Behavioral Mechanisms in Evolutionary Ecology-Leslie A. Real 1994-12-15 The first book-length exploration of behavioral mechanisms in evolutionary ecology, this ambitious volume illuminates long-standing questions about cause-and-effect relations between an animal's behavior and its environment. By focusing on biological mechanisms—the sum of an animal's cognitive, neural, developmental, and hormonal processes—leading researchers demonstrate how the integrated study of animal physiology, cognitive processes, and social interaction can yield an enriched understanding of behavior. With studies of species ranging from insects to primates, the contributors examine how various animals identify and use environmental resources and deal with ecological constraints, as well as the roles of learning, communication, and cognitive aspects of social interaction in behavioral evolution. Taken together, the chapters demonstrate

how the study of internal mechanistic foundations of behavior in relation to their ecological and evolutionary contexts and outcomes provides valuable insight into such behaviors as predation, mating, and dispersal. Behavioral Mechanisms in Evolutionary Ecology shows how a mechanistic approach unites various levels of biological organization to provide a broader understanding of the biological bases of behavioral evolution.

The Parental Brain-Michael Numan 2020 The Parental Brain: Mechanisms, Development, and Evolution explores the neural circuits and development of the parental brain, and the view that these circuits formed a template for the evolution of other types of prosocial bonds. The book is unique in its multilevel approach and integration of animal and human research.

Neural Mechanisms of Goal-Directed Behavior and Learning-Richard B. Thompson 2012-12-02 Neural Mechanisms of Goal-Directed Behavior and Learning provides information pertinent to the neuronal mechanisms of motivation and learning. This book focuses on the theoretical frameworks within which researchers analyze specific problems. Organized into six parts encompassing 39 chapters, this book begins with an overview of the problem of goal-directed behavior that occupies a central position in psychology. This text then examines the behavioral investigations that are directed at delineating the role of contiguity and determining the possible mechanisms of reinforcement in classical defense and reward conditioning. Other chapters consider the homeostatic regulation of various functions, such as nutrition, temperature, respiration, blood pressure, and fluid and electrolyte balance. This book discusses as well the effects of experimental treatments on memory. The final chapter deals with the relationship between perception and memory. This book is a valuable resource for psychologists and scientists. Graduate students in behavioral neuroscience will also find this book useful.

Perspectives on Imitation: Mechanisms of imitation and imitation in animals-Susan L. Hurley 2005 A state-of-the-art view of imitation from leading researchers in neuroscience and brain imaging, animal and developmental psychology, primatology, ethology, philosophy, anthropology, media studies, economics, sociology, education, and law.

Head Direction Cells and the Neural Mechanisms of Spatial Orientation-Sidney I. Wiener 2005-07-29 A comprehensive examination of head-direction signals and their importance in explaining orienting and navigation behaviors.

Mechanisms of Memory-J. David Sweatt 2009-09-28 This fully revised second edition provides the only unified synthesis of available information concerning the mechanisms of higher-order memory formation. It spans the range from learning theory, to human and animal behavioral learning models, to cellular physiology and biochemistry. It is unique in its incorporation of chapters on memory disorders, tying in these clinically important syndromes with the basic science of synaptic plasticity and memory mechanisms. It also covers cutting-edge approaches such as the use of genetically engineered animals in studies of memory and memory diseases. Written in an engaging and easily readable style and extensively illustrated with many new, full-color figures to help explain key concepts, this book demystifies the complexities of memory and deepens the reader's understanding. More than 25% new content, particularly expanding the scope to include new findings in translational research. Unique in its depth of coverage of molecular and cellular mechanisms Extensive cross-referencing to Comprehensive Learning and Memory Discusses clinically relevant memory disorders in the context of modern molecular research and includes numerous practical examples

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