

The McGraw Hill Companies Animal Farm Study Guide

Animal Behavior Animal Diversity

Each book offers: The latest information on a field of interest Training and educational requirements for each career Salary statistics for different positions within each field Up-to-date professional and Internet resources

The third edition of Animal Diversity presents a survey of the animal kingdom with emphasis on diversity, evolutionary relationships, functional adaptations, and environmental interactions. It is tailored for a one-semester or one-quarter course and is appropriate for both non-science and science majors.

"Animal Diversity is tailored for the restrictive requirements of a one-semester or one-quarter course in zoology, and is appropriate for both nonscience and science majors of varying backgrounds. This Ninth edition of Animal Diversity presents a survey of the animal kingdom with emphasis on diversity, evolutionary relationships, functional adaptations, and environmental interactions"--

See what animals like to do in the park at night.

First paragraph of Preface: This work is designed to serve as a systematic textbook of animal behavior for courses in psychology and biology. Part I covers the behavior of animals below the mammals, a comparative

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treatment in which we have endeavored not only to characterize each important animal type but also to work out certain fundamental principles of animal adjustment. In Parts II and III these principles are developed further as the major problems of animal psychology are attacked in connection with the behavior of mammals.

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,

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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.

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.

First paragraph of preface: The fundamental propositions behind this text-the platform, so to speak, upon which it has been written-are as follows:

1. Life has a chemicophysical basis.
2. Life

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phenomena are the outgrowth of organization. 3. The central fact in life is metabolism. 4. Animals may be arranged in a progressive series with reference to organization. 5. The most complex animals are the most effective and also the most efficient from a metabolic standpoint. 6. Man, as the highest of animals, can learn by the study of animal life the principles of the most effective living. 7. He can also understand more fully his place in nature and can more justly judge the actions of his fellows; this in turn may contribute to his intellectual and spiritual development. 8. Every problem concerned with living is essentially a biological problem and capable of analysis and solution by the application of biological principles.

The world's acknowledged balloon artist par excellence once again dips into his menagerie to show readers how to create more than 100 balloon animals. Illustrations. Consumable.

An exploration of animal, human, and plant life covers such diverse topics as cell division, the origin of life, and habitats.

A top choice among students and instructors alike, *Animal Diversity* continues to earn the appreciation of both science majors and non-majors alike. The book uses the theme of evolution to develop a broad-scale view of animal diversity—students focus not only the organisms themselves, but also the processes that produce evolutionary diversity. The

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book is unique in its comprehensive survey of zoological diversity and its emphasis on evolutionary, systematic and ecological principles, all in one package.

Opportunities in Animal and Pet Careers offers job seekers essential information about a variety of careers for animal lovers. The book includes training and education requirements, salary statistics, and professional and Internet resources.

Laboratory Studies in Animal Diversity offers students hands-on experience in learning about the diversity of life. It provides students the opportunity to become acquainted with the principal groups of animals and to recognize the unique anatomical features that characterize each group as well as the patterns that link animal groups to each other.

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