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He received his Ph.D. in Zoology from the University of Michigan. Apart from the multiple editions of Animal Physiology, Dr. Hill is a coauthor of Principles of Life, Second Edition, and has authored two other books on animal physiology, as well as numerous articles for scientific journals, encyclopedias, and edited volumes. Among the awards he has received are the Outstanding Faculty Award (Michigan State University Senior Class Council) and election as Fellow of the American Association ...

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**Physiology—Wikipedia**

Animal Physiology, Fourth Edition, Richard W. Hill, Gordon A. Wyse, and Margaret Anderson. Sinauer Associates is an imprint of Oxford University Press. Description. Animal Physiology, Fourth Edition, presents all the branches of modern animal physiology with a strong emphasis on integration of physiological knowledge, ecology, and evolutionary biology.

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Animal Physiology presents all the branches of modern animal physiology with a strong emphasis on integration of physiological knowledge, ecology, and evolutionary biology. Integration extends from molecules to organ systems and from one physiological discipline to another. The book takes an entirely fresh approach to each topic.

This textbook explores the structure and function of animals. Readers will gain knowledge on the diversity, as well as similarities of animal physiologies -- at the microscopic as well as macroscopic level. Topics include general physiology (tissues and organ systems, sensory reception, respiration, digestion etc.), genetics and reproduction, and evolution. Animal physiology is the study of how animals function. This volume is designed to survey molecular and cellular physiology as well as the major physiological systems and how these systems function to maintain homeostasis in various environments.

Published by Sinauer Associates, an imprint of Oxford University Press.

"Comprehensive, contemporary, and engaging, Animal Physiology provides evolutionary and ecological context to help students make connections across all levels of physiological scale"--

This text presents all the branches of modern animal physiology with a strong emphasis on integration among physiological disciplines, ecology, and evolutionary biology.

This classic animal physiology text focuses on comparative examples that illustrate the general principles of physiology at all levels of organisation—from molecular mechanisms to regulated physiological systems to whole organisms in their environment. This textbook is an authoritative and complete guide to the field of animal physiology which uses a threefold approach to teaching. The Comparative Approach emphasises basic mechanisms but allows patterns of physiological function in different species to demonstrate how evolution creates diversity. This approach encourages students to appreciate the underlying principles that govern physiological systems. The Experimental Emphasis helps students to understand the process of scientific discovery and shows how our knowledge of physiology continually increases and finally the Integrative Approach presents information about specific physiological systems at all levels of organisation, from molecular interactions to interactions between an organism and its environment.n included.

This truly comparative text takes a fundamental, biophysical approach toward animal physiology. Students majoring in zoology, biology, or premedicine will study animals ranging from simple invertebrates and protozoans to complex multicellular invertebrates and vertebrates. Emphasis on evolution shows the progressive changes, modifications, and developments of physiological systems from simple to complex animals. Comparisons show the similarities and differences in how animals function, but stress fundamentally similar adaptations in very different animals.

Introduction to Animal Physiology and Physiological Genetics, deals with topics on physiological measurement, comparisons, and analysis of the role of genotypes. This book emphasizes two aspects — the changes of physiological patterns in the course of development and the wide variation that can be found within a species. The text discusses the response mechanisms of living organisms from nerve impulses, chemical sense, muscle reaction, and includes some studies made on brain function. The effects of nutrition and energy such as the intake of food, water, oxygen, and the calculation of basic metabolic rates are explained. The book then discusses the role of the internal environment and that of the interstitial body fluid in the higher animals. The discussion covers blood circulation, cardiac cycle, and a special section on the function of the heartbeat in the spider Limulus showing that stimulation of the abdominal ganglia increases the heartbeats. The text also considers significant concepts of physiological genetics, and then explains asexual and sexual reproduction, the sex hormones of invertebrates, and the use of stimulants for animal production. The physiological differences between species are examined, but more particularly on the reservoir of genetic diversity, where differences abound between families and offspring. One research made in molecular biology concludes that genes are responsible for regulating the amino acid sequence of proteins. Molecular biologists, general biologists, zoologists, and microbiologists will find the articles in this collection invaluable.

Comprehensive, contemporary, and engaging, Animal Physiology provides evolutionary and ecological context to help students make connections across all levels of physiological scale. One of the major challenges instructors and students face in Animal Physiology is making connections across levels of biological scale. Animal Physiology addresses this challenge by providing ecological and evolutionary context to the study of physiology at all levels of organization: genome, molecular biology, biochemistry, cells, tissues, organs, and organ systems. Hill's inclusion of ecology and evolution helps readers gain a holistic perspective on animal function and sets Animal Physiology apart from texts that focus more narrowly on physiology. Hill's Animal Physiology is trusted by instructors and students because of its authoritative, current, engaging, and lavishly illustrated presentation.

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Animals perform many athletic tasks to an amazing degree of accomplishment: not only spectacular feats of running and jumping but also routine actions that ensure survival such as feeding, vocalization, diving, flying, and many more. The study of performance capacity (defined as the ability of an animal to conduct a key task) is of great interest to both ecologists and evolutionary biologists. At an ecological level, how well individuals perform often dictates opportunities for reproduction, occupation of preferred territories, or capturing prey. Therefore, variation in performance capacities can be a key determinant of variation in fitness within animal populations. At an evolutionary level, variation in function often follows closely from variation in form, and therefore enables animals to invade novel habitats, or to overtake other species. This novel book examines how and why animal athletes have evolved. It uses examples from across the animal kingdom and integrates them in the broader context of ecology and evolution, thereby identifying common themes that transcend taxonomic divisions. Animal Athletes is an accessible textbook of particular relevance to undergraduates, graduate students, researchers, and professionals in the fields of evolutionary biology, ecology, vertebrate morphology, and functional morphology.

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