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Richard W. Hill is Professor in the Department of Integrative Biology at Michigan State University and a frequent Guest Investigator at Woods Hole Oceanographic Institution. 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 ...

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Physiology (/ f ɪ z i ɒ l ə d i /; from Ancient Greek φύσις (physis) 'nature, origin', and -λογία (-logia) 'study of') is the scientific study of functions and mechanisms in a living system. As a sub-discipline of biology, physiology focuses on how organisms, organ systems, individual organs, cells, and biomolecules carry out the chemical and physical functions in a living ...

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

biology.

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.

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.

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Principles of Animal Physiology, by Chris Moyes and Trish Schulte, is designed to provide second- and third-year, undergraduate university students enrolled in animal physiology courses with an approach that balances its presentation of comparative physiology with mechanistic topics. The book delivers the fundamentals of animal physiology, while providing an integrative learning experience, drawing on ideas from chemistry, physics, mathematics, molecular biology and cell biology for its conceptual underpinnings.

Unlocking the puzzle of how animals behave and how they interact with their environments is impossible without understanding the physiological processes that determine their use of food resources. But long overdue is a user-friendly

introduction to the subject that systematically bridges the gap between physiology and ecology. Ecologists--for whom such knowledge can help clarify the consequences of global climate change, the biodiversity crisis, and pollution--often find themselves wading through an unwieldy, technically top-heavy literature. Here, William Karasov and Carlos Martínez del Rio present the first accessible and authoritative one-volume overview of the physiological and biochemical principles that shape how animals procure energy and nutrients and free themselves of toxins--and how this relates to broader ecological phenomena. After introducing primary concepts, the authors review the chemical ecology of food, and then discuss how animals digest and process food. Their broad view includes symbioses and extends even to ecosystem phenomena such as ecological stochiometry and toxicant biomagnification. They introduce key methods and illustrate principles with wide-ranging vertebrate and invertebrate examples. Uniquely, they also link the physiological mechanisms of resource use with ecological phenomena such as how and why animals choose what they eat and how they participate in the exchange of energy and materials in their biological communities. Thoroughly up-to-date and pointing the way to future research, Physiological Ecology is an essential new source for upper-level undergraduate and graduate students-and an ideal synthesis for professionals. The most accessible introduction to the physiological and biochemical principles that shape how animals use resources Unique in linking the physiological mechanisms of resource use with ecological phenomena An essential resource for upper-level undergraduate and graduate students An ideal overview for researchers

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.