

Eckert Animal Physiology

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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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covers various aspects of zoology in four volumes including the behavior class evolution and physiology of both wild and domestic animals

this 10 hour free course examined the adaptations and the survival strategies of insect eating mammals

ecologists have always believed at least to a certain extent that physiological mechanisms serve to underpin ecological patterns however their importance has traditionally been at best underestimated and at worst ignored with physiological variation being dismissed as either an irrelevance or as random noise error spicer and gaston make a convincing argument that the precise physiology does matter in contrast to previous works which have attempted to integrate ecology and physiology physiological diversity adopts a completely different and more controversial approach in tackling the physiology first before moving on to consider the implications for ecology this is timely given the recent and considerable interest in the mechanisms underlying ecological patterns indeed many of these mechanisms are physiological this textbook provides a contemporary summary of physiological diversity as it occurs at different hierarchical levels individual population species etc and the implications of such diversity for ecology and by implication evolution it reviews what is known of physiological diversity and in doing so exposes the reader to all the key works in the field it also portrays many of these studies in a completely new light thereby serving as an agenda for and impetus to the future study of physiological variation physiological diversity will be of relevance to senior undergraduates postgraduates and professional researchers in the fields of ecology ecological physiology

ecotoxicology environmental biology and conservation the book spans both terrestrial and marine systems

this is the newest volume in the softcover series update in intensive care medicine it takes a novel practical approach to analyzing hemodynamic monitoring focusing on the patient and outcomes based on disease treatment options and relevance of monitoring to direct patient care it will rapidly become a classic in the approach to patient monitoring and management during critical illness

this book discusses aerobic metabolism at all levels from the gas exchange organs to mitochondria including aspects of morphology and physiology as well as the control of breathing in the central nervous system

through the ages natural historians have puzzled over how animals work wavering between a vitalist belief in a soul animating bodily functions and a mechanistic outlook in which animal body parts are seen as pieces of organic machinery animal as machine explores the life work and ideas of scientists who branding themselves as physiologists subscribed to mechanistic concepts to explain how animals acquire and process food breathe circulate their blood and sense their environment as medical physiology thrived in the nineteenth century zoologists struggled to forge their own distinctive physiology predicated on understanding animal functions in a context of environmental adaptation and evolutionary forces physiological schools with distinct emphases that shaped their outlook sprang up around the world dividing their time between fieldwork in marine stations and laboratory experimentation animal physiologists stood in awe of the diversity and ingenuity of the functional strategies by which animals survived animal as machine tells a remarkable and insightful story of the larger than life personalities and gripping historical episodes that marked the emergence and blossoming of animal physiology

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