

Efficiency and Economy in Animal Physiology:

Efficiency And Economy In Animal Physiology

**Guido van den Thillart, Sylvie Dufour, J.
Cliff Rankin**



Efficiency And Economy In Animal Physiology:

Efficiency and Economy in Animal Physiology Robert William Blake, 2005 Efficiency and Economy in Animal Physiology American Society of Zoologists, 1991 This book discusses the concepts of efficiency and economy and other similar terms as applied to animals from an evolutionary perspective

Efficiency and Economy in Animal Physiology Robert William Blake, 1991 **Ecological Morphology** Peter C. Wainwright, Stephen M. Reilly, 1994-08-15 Ecological morphology examines the relation between an animal's anatomy and physiology its form and function and how the animal has evolved in and can inhabit a particular environment Within the past few years research in this relatively new area has exploded Ecological Morphology is a synthesis of major concepts and a demonstration of the ways in which this integrative approach can yield rich and surprising results Through this interdisciplinary study scientists have been able to understand for instance how bat wing design affects habitat use and bat diet how the size of a predator affects its ability to capture and eat certain prey and how certain mosquitoes have evolved physiologically and morphologically to tolerate salt water habitats Ecological Morphology also covers the history of the field the role of the comparative method in studying adaptation and the use of data from modern organisms for understanding the ecology of fossil communities This book provides an overview of the achievements and potential of ecological morphology for all biologists and students interested in the way animal design ecology and evolution interact

Biomechanics in Animal Behaviour R.W. Blake, P. Domenici, 2021-05-30 Biomechanics in Animal Behaviour offers a unique approach by integrating fully the fields of animal behaviour and biomechanics It demonstrates how an understanding of biomechanical issues is an important part of evaluating and predicting animal behaviour The book examines how behaviour is determined and or constrained by biomechanical variables such as hydrodynamics aerodynamics kinematics and the mechanical properties of biomaterials **Flow Phenomena in Nature: A challenge to engineering design** Roland Liebe, 2007 Do we have an adequate understanding of fluid dynamics phenomena in nature and evolution and what physical models do we need What can we learn from nature to stimulate innovations in thinking as well as in engineering applications Concentrating on flight and propulsion this unique and accessible book compares fluid dynamics solutions in nature with those in engineering The respected international contributors present up to date research in an easy to understand manner giving common viewpoints from fields such as zoology engineering biology fluid mechanics and physics Contents Introduction to Fluid Dynamics Swimming and Flying in Nature Generation of Forces in Fluids Current Understanding The Finite Natural Vortex in Steady and Unsteady Fluid Dynamics New Modelling Applications in Engineering with Inspirations From Nature Modern Experimental and Numerical Methods in Fluid Dynamics

Nutrition and Enhanced Sports Performance Debasis Bagchi, Sreejayan Nair, Chandan K. Sen, 2018-10-05 Nutrition and Enhanced Sports Performance Muscle Building Endurance and Strength Second Edition includes comprehensive sections on the role of nutrition in human health various types of physical exercises including cardiovascular training resistance training

aerobic and anaerobic exercises bioenergetics and energy balance and the nutritional requirements associated with each Other sections cover sports and nutritional requirements the molecular mechanisms involved in muscle building an exhaustive review of various foods minerals supplements phytochemicals amino acids transition metals competition training healthy cooking physical training and lifestyle and dietary recommendations for sports performance This updated edition includes new chapters on mood alertness calmness and psychomotor performance in sports extreme sports natural myostatin inhibitor and lean body mass the benefits of caffeine in sport nutrition formulations the role of vitamin D in athletic performance probiotics and muscle mass Provides a comprehensive appraisal of the nutritional benefits of exercise in human health Compiles chapters reviewing the nutritional prophylaxis in human health Addresses performance enhancement drugs and sports supplements Presents various types of physical exercises and addresses exercise and nutritional requirements in special populations Discusses sports nutrition and the molecular mechanisms involved in muscle building Contains an exhaustive review of various food minerals supplements phytochemicals amino acids transition metals small molecules and other ergogenic agents Highlights the aspects of healthy cooking physical training lifestyle and dietary recommendations for sports performance

Current Perspectives on the Functional Design of the Avian Respiratory System John N.

Maina, 2023-09-13 Birds have and continue to fascinate scientists and the general public While the avian respiratory system has unremittingly been investigated for nearly five centuries important aspects on its biology remain cryptic and controversial In this book resolving some of the contentious issues developmental structural and functional aspects of the avian lung air sac system are particularized it endeavors to answer following fundamental questions on the biology of birds how when and why did birds become what they are Flight is a unique form of locomotion It considerably shaped the form and the essence of birds as animals An exceptionally efficient respiratory system capacitated birds to procure the exceptionally large quantities of oxygen needed for powered active flight Among the extant air breathing vertebrates comprising 11 000 species birds are the most species rich numerically abundant and extensively distributed animal taxon After realizing volancy they easily overcame geographical obstacles and extensively dispersed into various ecological niches where they underwent remarkable adaptive radiation While the external morphology of birds is inconceivably uniform for such a considerably speciose taxon contingent on among other attributes lifestyle habitat and phylogenetic level of development have foremost determined the novelties that are displayed by diverse species of birds Here critical synthesizes of the most recent findings with the historical ones evolution and behavior and development structure and function of the exceptionally elaborate respiratory system of birds are detailed The prominence of modern birds as a taxon in the Animal Kingdom is underscored The book should appeal to researchers who are interested in evolutionary processes and how adaptive specializations correlate with biological physiognomies and exigencies comparative biologists who focus on how various animals have solved respiratory pressures people who study respiration in birds and other animals and ornithologists who love and enjoy birds for

what they are profoundly interesting animals Environmental Stressors and Gene Responses J.M. Storey, K.B. Storey, 2000-07-31 Cell and Molecular Responses to Stress is a new multi volume book series from Elsevier Science that focuses on how organisms respond at a molecular level to environmental stresses imposed upon them All organisms deal with variations in multiple environmental factors including temperature oxygen salinity and water availability Many show amazing tolerances to extreme stress with remarkable biochemical adaptations that allow life to persist under very difficult circumstances This series explores the molecular mechanisms by which cells and organisms respond to stress focusing on the variations in metabolic response that allow some cells and organisms to deal with extreme stress others to endure stress within strict limits and others to have a very low tolerance for changes in environmental parameters Articles from within the series highlight the elastic limits of molecular responses in Nature with examples drawn from animal plant and bacteria systems Volume 1 begins by considering some of the roles of environmental stress in determining the geographic distribution of animals and in promoting species divergence and then explores gene expression and metabolic responses to environmental stress with examples of adaptation to high and low temperature osmotic anoxia ischemia desiccation high pressure and heavy metal stresses The Emergence of Whales J.G.M. Thewissen, 1998-10-31 Research in whale origins is now in an explosive phase with a cascade of discoveries adding to our understanding of the evolutionary pattern and a suite of new techniques being applied to address new questions The objective of this volume is to provide a snapshot of this explosion The volume paints the scene with a broad brush Taken together the chapters clearly indicate that cetacean origins is a field that is dynamic multidisciplinary and that the end of the explosive phase is not in sight **From Biped to Strider** D. Jeffrey Meldrum, Charles E. Hilton, 2011-06-27 The inspiration for this volume of contributed papers stemmed from conversations between the editors in front of Chuck Hilton's poster on the determinants of hominid walking speed presented at the 1998 meetings of the American Association of Physical Anthropologists AAPA Earlier at those meetings Jeff Meldrum with Roshna Wunderlich had presented an alternate interpretation of the Laetoli footprints based on evidence of midfoot flexibility As the discussion ensued we found convergence on a number of ideas about the nature of the evolution of modern human walking From the continuation of that dialogue grew the proposal for a symposium which we called From Biped to Strider the Emergence of Modern Human Walking The symposium was held as a session of the 69th annual meeting of the AAPA held in San Antonio Texas in 2000 It seemed to us that the study of human bipedalism had become overshadowed by the often polarized debates over whether australo pitheciines were wholly terrestrial in habit or retained a significant degree of arboreality *Kinetics of Human Motion* Vladimir M. Zatsiorsky, 2002 This book focuses on the examination of forces that create entire body motion *Insect Ecomorphology* Oliver Betz, 2025-02-25 Insect Ecomorphology Linking Functional Insect Morphology to Ecology and Evolution offers the most up to date knowledge and understanding of the morphology of insects and the functional basis of their diversity This book covers the form and function of insect body structures synthesized with

their physiological performance capabilities biological roles and evolutionary histories Written by international experts this book provides a modern outline of the topic exploring the ecomorphology of functional systems such as insect feeding locomotion sensing and reproduction The combination of conceptual and review chapters methodological approaches and case studies enables readers to delve into active research fields and attain a general idea of the explanatory power of the form function performance paradigm The book uncovers key structures of the different regions of the insect body elucidates how they function and investigates their ecological and evolutionary implications *Insect Ecomorphology Linking Functional Insect Morphology to Ecology and Evolution* is a vital resource for entomologists biologists and zoologists especially those seeking to better understand the morphology and physiological impacts tying insects to environments and evolution Integrates traditionally separate fields of research with the aim of understanding insect morphology ecology and evolution Considers the impacts of insect ecomorphology on biomimetic applications Includes conceptual and methodological chapters to help readers appreciate the ways in which ecomorphological studies are performed *Mechanics of Animal Locomotion* R. McNeill Alexander,1992 **Convergent Evolution** Vincent L. Bels,Anthony P. Russell,2023-03-01 This volume presents a series of case studies at different levels of inclusivity of how organisms exhibit functional convergence as a key evolutionary mechanism resulting in responses to similar environmental constraints in mechanically similar ways The contributors to this volume have selected and documented cases of convergent evolution of form and function that are perceived to be driven by environmental abiotic and or biotic challenges that fall within their areas of expertise Collectively these chapters explore this phenomenon across a broad phylogenetic spectrum The sequence of chapters follows the organizational principle of increasing phylogenetic inclusivity rather than the clustering of chapters by perceived similarity of the phenotypic features or biomechanical challenges being considered This is done to maintain focus on the evolutionary phenomenon that is the primary subject matter of the book thereby providing a basis for discussion among the readership about what is necessary and sufficient to justify the recognition of functional convergence All chapters stress the need for integrative approaches for the elucidation of both pattern and process as they relate to convergence at various taxonomic levels The Nature of Diversity Daniel R. Brooks,Deborah A. McLennan,2012-04-26 All living things on earth from individual species to entire ecosystems have evolved through time and evolution is the acknowledged framework of modern biology Yet many areas of biology have moved from a focus on evolution to much narrower perspectives Daniel R Brooks and Deborah A McLennan argue that it is impossible to comprehend the nature of life on earth unless evolution the history of organisms is restored to a central position in research They demonstrate how the phylogenetic approach can be integrated with ecological and behavioral studies to produce a richer and more complete picture of evolution Clearly setting out the conceptual methodological and empirical foundations of their research program Brooks and McLennan show how scientists can use it to unravel the evolutionary history of virtually any characteristic of any living thing from behaviors to ecosystems They

illustrate and test their approach with examples drawn from a wide variety of species and habitats The Nature of Diversity provides a powerful new tool for understanding documenting and preserving the world s biodiversity It is an essential book for biologists working in evolution ecology behavior conservation and systematics The argument in The Nature of Diversity greatly expands upon and refines the arguments made in the authors previous book Phylogeny Ecology and Behavior

Kangaroo Vernes Karl, Jackson Stephen, 2011-03-04 Like the Sydney Opera House or Uluru the kangaroo is a unique symbol of Australia This is the remarkable story of our most famous marsupial from its ancient origins and prehistoric significance to current day management and conservation Marsupial specialists Stephen Jackson and Karl Vernes examine our sustained fascination with kangaroos spanning 40 000 years that allows these engaging marsupials to be instantly recognised by people the world over The amazing diversity of this group of animals is revealed ranging from tiny forest dwellers and tree kangaroos to large majestic animals living on the open plains of central Australia and the giant kangaroos that once roamed the Pleistocene landscape The authors also investigate the natural history of kangaroos their unique reproduction methods intriguing behaviour varied diet and trademark hopping ability all of which make them such fascinating animals Spawning Migration of the European Eel Guido van den Thillart, Sylvie Dufour, J. Cliff Rankin, 2008-12-18

Freshwater eels are almost infinitely improbable creatures They spawn and die in the middle of the ocean often associated with undersea mountains Their transparent leaf like larvae move with ocean currents for months or years until they approach the mouths of freshwater rivers Then they undergo a dramatic transformation in morphology physiology and behavior They move from their planktonic oceanic environment migrate upstream and live for several years as apex freshwater predators Then almost impossibly as they become sexually mature they reverse their migration downstream to the ocean and back to spawning grounds to complete their life cycle The dramatic changes in their life cycles are incredible The efforts to unravel the details of their life history have been truly daunting Much of the past research was the work of dedicated individuals who devoted their lifetime research to these fishes Freshwater eels merit a separate chapter in almost any textbook dealing with ichthyology marine biology or animal migration We know a great deal about some aspects of the biology of freshwater eels However our understanding of their biology still resembles a work of art as much as a work of science To some it appears like the sweeping brush strokes of a Japanese Zen landscape to others it resembles the work of a French impressionist and to still others it appears as magic realism **Journal of the Society of Arts** ,1878 **The Cardiovascular System** ,1992-10-16

This book and its companion Fish Physiology Volume 12 Part B are the first major syntheses of recent advances general concepts and species diversity of fish in almost 25 years It provides broad coverage of the major aspects of cardiovascular physiology and is a definitive sourcebook for the field This book discusses the special design of the venous system in aquatic vertebrates reviews the nature of the secondary circulation in fish and discusses the probable absence of the lymphatic system It is of value to teachers in comparative physiology as well as to the researcher

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