

SCALING

WHY IS ANIMAL SIZE
SO IMPORTANT?

Knut Schmidt-Nielsen



Scaling Why Is Animal Size So Important

John William Prothero



Scaling Why Is Animal Size So Important:

Scaling Knut Schmidt-Nielsen, 1984-07-27 This book is about the importance of animal size We tend to think of animal function in chemical terms and talk of water salts proteins enzymes oxygen energy and so on We should not forget however that physical laws are equally important for they determine rates of diffusion and heat transfer transfer of force and momentum the strength of structures the dynamics of locomotion and other aspects of the functioning of animal bodies Physical laws provide possibilities and opportunities for an organism yet they also impose constraints setting limits to what is physically possible This book aims to give an understanding of these rules because of their profound implications when we deal with animals of widely different size and scale The reader will find that the book raises many questions Remarkable and puzzling information makes it read a little like a detective story but the last chapter instead of giving the final solution neither answers all questions nor provides one great unifying principle

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Knut Schmidt-Nielsen, 1984 **Scaling** Knut Schmidt-Nielsen, 2012 *Animal Physiology* Knut Schmidt-Nielsen, 1997-04-10 How do dolphins catch fish in murky water Why do moths drink from puddles How do birds eggs breathe How do animals work In this revised and updated edition of the acclaimed text *Animal Physiology* the answers are revealed In clear and stimulating style Knut Schmidt Nielsen introduces and develops the fundamental principles of animal physiology according to major environmental features oxygen food and energy temperature and water The structure of the book is unchanged from the previous edition but every chapter has been updated to take into account recent developments with numerous new references and figures *Animal Physiology* is suitable as a text for undergraduate and beginning graduate courses in physiology As with previous editions students teachers as well as researchers will find this book a valuable and enjoyable companion to course work and research

Body Size in Mammalian Paleobiology John Douglas Damuth, Bruce J.

MacFadden, 1990-11-30 There is a growing interest in the biological implications of body size in animals This parameter is now being used to make inferences and predictions about not only the habits and habitat of a particular species but also as a way to understand patterns and biases in the fossil record This valuable collection of essays presents and evaluates techniques of body mass estimation and reviews current and potential applications of body size estimates in paleobiology Coverage is particularly detailed for carnivores primates and ungulates but information is also presented on marsupials rodents and proboscideans *Body Size in Mammalian Paleobiology* will prove useful to researchers and graduate students in paleontology mammalogy ecology and evolution programmes It is designed to be both a practical handbook for researchers making and using body size estimates and a sourcebook of ideas for applying body size to paleontological problems and directions for future research

Introduction to Molecular Biophysics Jack A. Tuszynski, Michal Kurzynski, 2003-02-26

Molecular biophysics is a rapidly growing field of research that plays an important role in elucidating the mysteries of life molecules and their assemblies as well as the relationship between their structure and function *Introduction to Molecular*

Biophysics fills an existing gap in the literature on this subject by providing the reader with th **The Design of Mammals** John William Prothero, 2015-10-22 Despite an astonishing 100 million fold range in adult body mass from bumblebee bat to blue whale all mammals are formed of the same kinds of molecules cells tissues and organs and to the same overall body plan A scaling approach investigates the principles of mammal design by examining the ways in which mammals of diverse size and taxonomy are quantitatively comparable This book presents an extensive reanalysis of scaling data collected over a quarter of a century including many rarely or never cited sources The result is an unparalleled contribution to understanding scaling in mammals addressing a uniquely extensive range of mammal attributes and using substantially larger and more rigorously screened samples than in any prior works An invaluable resource for all those interested in the design of mammals this is an ideal resource for postgraduates and researchers in a range of fields from comparative physiology to ecology

Scaling Relations in Experimental Ecology Robert H. Gardner, W. Michael. Kemp, Victor S. Kennedy, John E. Petersen, 2012-08-14 Ecology **The Branches of Ecology** Frank N. Egerton, 2023-01-31 The ecological sciences are a diverse array of major scientific disciplines They grew from minor sciences with little status in 1900 and now occupy crucial areas of research bearing on the future of our planet This book describes a century of growth and development A dramatic century long rise in the status of ecological knowledge was accompanied by the rise of professional ecological organizations the establishment of university faculties and the creation of government agencies advising on conservation natural resources and the prevention of pollution Like all sciences ecology continues to yield new findings and surprising revelations New technologies now address existential challenges facing our world This book documenting the rise of ecology is an inspiring history portending an important role in the twenty first century Key Features The author is the acknowledged authority on the history of ecology The content is familiar to members of the Ecological Society of America but has not previously been assembled into a single narrative Appropriate for a course in the history of ecology Provides a broad perspective on ecology Related Titles Egerton F N A Centennial History of the Ecological Society of America ISBN 978 0 3673 7763 2 Rieppel O Phylogenetic Systematics Haeckel to Hennig ISBN 978 0 3678 7645 6 Dronamraju K A Century of Geneticists Mutation to Medicine ISBN 978 1 4987 4866 7 The Invertebrates R. S. K. Barnes, Peter P. Calow, P. J. W. Olive, D. W. Golding, J. I. Spicer, 2009-04-13 The majority of undergraduate texts in invertebrate zoology of which there are many fall into one of two categories They either offer a systematic treatment of groups of animals phylum by phylum or adopt a functional approach to the various anatomical and physiological systems of the better known species The Invertebrates is the first and only textbook to integrate both approaches and thus meet the modern teaching needs of the subject This is the only invertebrate textbook to integrate systematics and functional approaches The molecular systematics sections have been completely updated for the new edition Strong evolutionary theme which reflects the importance of molecular techniques throughout Distills the essential characteristics of each invertebrate group and lists diagnostic features to allow comparisons between phyla New

phyla have been added for the new edition Stresses comparisons in physiology reproduction and development Improved layout and illustration quality Second edition has sold 14000 copies Nature of the first edition Students will like this book It deserves to succeed **Engineering Animals** Mark Denny,Alan McFadzean,2011-09-09 From an engineer s perspective how do specialized adaptations among living things really work Writing with wit and a richly informed sense of wonder Denny and Alan offer an expert look at animals including humans as works of evolutionary engineering each exquisitely adapted to a specific manner of survival The Ins and Outs of Breathing Norman L. Jones,2011-07 Breathing one of our most essential bodily functions is central to the proper working of the body and to your quality of life Taking a wider view the lungs are the only major system in direct contact with the environment serving to protect the body with a variety of defenses but also taking the brunt of the onslaught when the air we breathe is toxic The Ins and Outs of Breathing is the result of Dr Norman Jones s fifty year odyssey to understand how the lung works and the science of breathing Jones traces the struggles of scientists from Leonardo to the present day as they pieced together the structure of the lungs He examines the effect of changes in breathing and its secondary effects on other body systems Understand how breathing influences many bodily functions from our muscles brain and even the immune system Discover how Everest was climbed without oxygen how Roger Bannister ran the first four minute mile and how SCUBA allows you to enjoy underwater exploration Find the evidence to convince you or your friends to stop smoking See all the different ways in which animals marine creatures and birds breathe Gain insights into asthma COPD and other lung complaints Discover what makes your partner snore at night and what to do about it Accessible and wide ranging this layman s guide to the lungs can help you appreciate the many meanings of inspiration **Ecological Scale** David Lawrence Peterson,V. Thomas Parker,1998 Ecological Scale provides invaluable perspectives on the application of the concepts of measurement analysis and inference in both theoretical and applied ecology ultimately providing a broad based understanding for resource managers and other ecological professionals

Living at Micro Scale David B. Dusenbery,2011-03-04 It isn t easy being small Dusenbery uses straightforward physics to demonstrate the constraints on the size shape and behavior of tiny organisms While recounting the historical development of the basic concepts he unearths a corner of microbiology rich in history and full of lessons about how science does or does not progress *Foundations of Macroecology* Felisa A. Smith,John L. Gittleman,James H. Brown,2014-08-22 Macroecology is an approach to science that emphasizes the description and explanation of patterns and processes at large spatial and temporal scales Some scientists liken it to seeing the forest through the trees giving the proverbial phrase an ecological twist The term itself was first introduced to the modern literature by James H Brown and Brian A Maurer in a 1989 paper and it is Brown s classic 1995 study Macroecology that is credited with inspiring the broad scale subfield of ecology But as with all subfields many modern day elements of macroecology are implicit in earlier works dating back decades even centuries Foundations of Macroecology charts the evolutionary trajectory of these concepts from the species area relationship and the latitudinal

gradient of species richness to the relationship between body size and metabolic rate through forty six landmark papers originally published between 1920 and 1998 Divided into two parts Macroecology before Macroecology and Dimensions of Macroecology the collection also takes the long view with each paper accompanied by an original commentary from a contemporary expert in the field that places it in a broader context and explains its foundational role Providing a solid coherent assessment of the history current state and potential future of the field Foundations of Macroecology will be an essential text for students and teachers of ecology alike

Kinanthropometry and Exercise Physiology Laboratory Manual: Tests, Procedures and Data, Third Edition, *Kinanthropometry and Exercise Physiology Laboratory Manual: Anthropometry* Roger G. Eston, Thomas Reilly, 2009 Kinanthropometrics is the study of the human body size and somatotypes and their quantitative relationships with exercise and nutrition This is the third edition of a successful text on the subject

Handbook of Scaling Methods in Aquatic Ecology Laurent Seuront, Peter G. Strutton, 2003-09-25 The evolution of observational instruments simulation techniques and computing power has given aquatic scientists a new understanding of biological and physical processes that span temporal and spatial scales This has created a need for a single volume that addresses concepts of scale in a manner that builds bridges between experimentalists and **Sport and Exercise**

Physiology Testing Guidelines: Volume I - Sport Testing Edward M. Winter, Andrew M. Jones, R.C. Richard Davison, Paul D. Bromley, Tom H. Mercer, 2006-11-22 Sport and exercise physiologists are called upon to carry out physiological assessments that have proven validity and reliability both in sport specific and health related contexts A wide variety of test protocols have been developed and refined This book is a comprehensive guide to these protocols and to the key issues relating to physiological testing Volume I covers sport specific testing and Volume II covers clinical and exercise specific testing With contributions from leading specialist sport exercise and clinical physiologists and covering a wide range of mainstream sports special populations and ethical practical and methodological issues these volumes represent an essential resource for sport specific and clinical exercise testing in both research and applied settings Visit the companion website at www.routledgesport.com/bases *Sport and Exercise Physiology Testing Guidelines: Volume II - Exercise and Clinical Testing* Edward M. Winter, Andrew M. Jones, R. C. Richard Davison, Paul D. Bromley, Tom Mercer, 2006

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