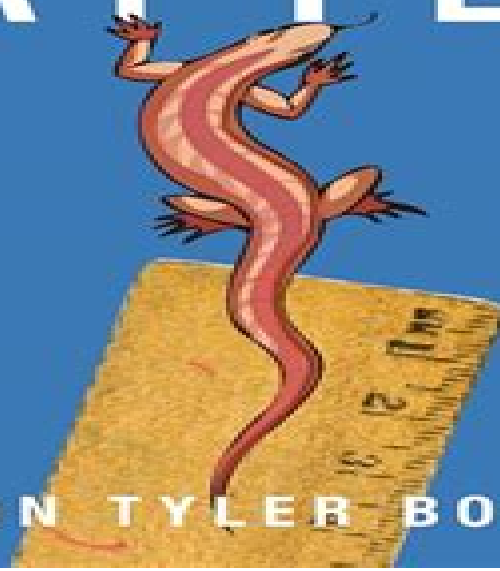


From Bacteria to Blue Whales

WHY

SIZE

MATTERS



JOHN TYLER BONNER

Why Size Matters From Bacteria To Blue Whales

Marc J. Madou



Why Size Matters From Bacteria To Blue Whales:

Why Size Matters John Tyler Bonner, 2024-01-09 John Tyler Bonner one of our most distinguished and creative biologists here offers a completely new perspective on the role of size in biology In his hallmark friendly style he explores the universal impact of being the right size By examining stories ranging from Alice in Wonderland to Gulliver s Travels he shows that humans have always been fascinated by things big and small Why then does size always reside on the fringes of science and never on the center stage Why do biologists and others ponder size only when studying something else running speed life span or metabolism Why Size Matters a pioneering book of big ideas in a compact size gives size its due by presenting a profound yet lucid overview of what we know about its role in the living world Bonner argues that size really does matter that it is the supreme and universal determinant of what any organism can be and do For example because tiny creatures are subject primarily to forces of cohesion and larger beasts to gravity a fly can easily walk up a wall something we humans cannot even begin to imagine doing Bonner introduces us to size through the giants and dwarfs of human animal and plant history and then explores questions including the physics of size as it affects biology the evolution of size over geological time and the role of size in the function and longevity of living things As this elegantly written book shows size affects life in its every aspect It is a universal frame from which nothing escapes

Why Size Matters John Tyler Bonner, 2011-12-05 Why size plays such a big role in the living world John Tyler Bonner one of our most distinguished and creative biologists here offers a completely new perspective on the role of size in biology In his hallmark friendly style he explores the universal impact of being the right size By examining stories ranging from Alice in Wonderland to Gulliver s Travels he shows that humans have always been fascinated by things big and small Why then does size always reside on the fringes of science and never on the center stage Why do biologists and others ponder size only when studying something else running speed life span or metabolism Why Size Matters a pioneering book of big ideas in a compact size gives size its due by presenting a profound yet lucid overview of what we know about its role in the living world Bonner argues that size really does matter that it is the supreme and universal determinant of what any organism can be and do For example because tiny creatures are subject primarily to forces of cohesion and larger beasts to gravity a fly can easily walk up a wall something we humans cannot even begin to imagine doing Bonner introduces us to size through the giants and dwarfs of human animal and plant history and then explores questions including the physics of size as it affects biology the evolution of size over geological time and the role of size in the function and longevity of living things As this elegantly written book shows size affects life in its every aspect It is a universal frame from which nothing escapes

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

Biogeography of Microscopic Organisms Diego Fontaneto, 2011-05-19 Bringing together the viewpoints of leading experts in taxonomy ecology and biogeography of different taxa this book synthesises discussion surrounding the so called everything is everywhere hypothesis It addresses the processes that generate spatial patterns of diversity and biogeography in organisms that can potentially be cosmopolitan The contributors discuss questions such as are microorganisms e g prokaryotes protists algae yeast and microscopic fungi plants and animals really cosmopolitan in their distribution What are the biological properties that allow such potential distribution Are there processes that would limit their distribution Are microorganisms intrinsically different from macroscopic ones What can microorganisms tell us about the generalities of biogeography Can they be used for experimental biogeography Written for graduate students and academic researchers the book promotes a more complete understanding of the spatial patterns and the general processes in biogeography

Computational Paleontology Ashraf M.T. Elewa, 2011-03-04 Computational paleontology is simply a term applied to using computers and its facilities in the field of paleontology However we should be exactly precise in describing the term through explaining the main themes of this motivating and attractive scientific field The uppermost aim of this book is to explain how computation could be competent in fetching fossils to life and the past to present Computers for paleontologists save time and costs interpret mysterious events precisely and accurately visualize the ancient life definitely and undeniably

From MEMS to Bio-MEMS and Bio-NEMS Marc J. Madou, 2011-06-13 From MEMS to Bio MEMS and Bio NEMS Manufacturing Techniques and Applications details manufacturing techniques applicable to bionanotechnology After reviewing MEMS techniques materials and modeling the author covers nanofabrication genetically engineered proteins artificial cells nanochemistry and self assembly He also discusses scaling la

Synergistic Selection: How Cooperation Has Shaped Evolution And The Rise Of Humankind Peter A Corning, 2017-12-28 Nothing about the evolution of biological complexity makes sense except in the light of synergy Peter Corning s new book is being hailed as a major contribution to what is perhaps the greatest shift in our understanding of evolution since The Origin of Species It s a tour de force that takes us on a synergy guided tour of the history of life As Corning puts it life on Earth has been a synergistic phenomenon from the get go Corning also shows how synergy has been a key to human evolution including the rise of complex modern societies Cooperation may have been the vehicle but synergy was the driver As we now face a tipping point and another major transition in evolution Corning offers us a synergy based road map to the future One of the great take

home lessons from the epic of evolution is that cooperation produces synergy and synergy is the way forward The arc of evolution bends toward synergy Related Link s *Behavioral Ecology of Neotropical Birds* Juan Carlos Reboreda, Vanina Dafne Fiorini, Diego Tomás Tuero, 2019-04-24 This book covers central aspects of behavioral ecology including sexual selection social and genetic mating systems cooperative breeding brood parasitism brood reduction migration personalities and communication Over the past several years Neotropical bird species from temperate to tropical latitudes of South America have been extensively studied yielding valuable insights into the evolutionary mechanisms that drive their behavioral traits In this book international experts provide a general overview of main behavioral aspects They also present the main findings of their work including experimental approaches to testing the most accepted behavioral theory in their model systems In closing they propose new theoretical frameworks and future research directions As such the book provides a comprehensive and updated guide for all researchers students and professionals whose work involves the study and management of birds across the Neotropical region [Fundamentals of Microfabrication and Nanotechnology. Three-Volume Set](#) Marc J. Madou, 2018-12-14 Now in its third edition Fundamentals of Microfabrication and Nanotechnology continues to provide the most complete MEMS coverage available Thoroughly revised and updated the new edition of this perennial bestseller has been expanded to three volumes reflecting the substantial growth of this field It includes a wealth of theoretical and practical information on nanotechnology and NEMS and offers background and comprehensive information on materials processes and manufacturing options The first volume offers a rigorous theoretical treatment of micro and nanosciences and includes sections on solid state physics quantum mechanics crystallography and fluidics The second volume presents a very large set of manufacturing techniques for micro and nanofabrication and covers different forms of lithography material removal processes and additive technologies The third volume focuses on manufacturing techniques and applications of Bio MEMS and Bio NEMS Illustrated in color throughout this seminal work is a cogent instructional text providing classroom and self learners with worked out examples and end of chapter problems The author characterizes and defines major research areas and illustrates them with examples pulled from the most recent literature and from his own work **Narratives of Scale in the Anthropocene** Gabriele Dürbeck, Philip Hüpkes, 2021-07-26 The Anthropocene concept draws attention to the various forms of entanglement of social political ecological biological and geological processes at multiple spatial and temporal scales The ensuing complexity and ambiguity create manifold challenges to widely established theories methodologies epistemologies and ontologies The contributions to this volume engage with conceptual issues of scale in the Anthropocene with a focus on mediated representation and narrative They are centered around the themes of scale and time scale and the nonhuman and scale and space The volume presents an interdisciplinary dialogue between sociology geography political sciences history and literary cultural and media studies Together they contribute to current debates on the re imagining of forms of human responsibility that meet the challenges created by humanity entering an age

of scalar complexity Chapter 3 of this book is freely available as a downloadable Open Access PDF under a Creative Commons Attribution Non Commercial No Derivatives 4.0 license available at <http://www.taylorfrancis.com/books/e/9781003136989>

The Cosmic Zoom Zachary Horton, 2021-07-23 In *The Powers of Ten* by Charles and Ray Eames a view of two people enjoying a picnic zooms up and away to show their surroundings moving progressively farther into space then zooms back in for a close up of the hand of the picnicker travelling deep into the microscopic realm This is one of the most iconic examples of the cosmic zoom a trope that has influenced countless media forms over the past seventy years Horton uses the cosmic zoom as a starting point to develop a cross disciplinary theory of scale as mediated difference He considers the origins of our notions of scale how scalar mediation functions differently in analog and digital modes and how cosmic zoom media has influenced scientific and popular views of the world Analyzing literature film digital media and database history Horton establishes a much needed framework for thinking about scale across multiple domains and disciplines

Scale Theory Joshua DiCaglio, 2021-11-30 A pioneering call for a new understanding of scale across the humanities How is it possible that you are simultaneously cells atoms a body quarks a component in an ecological network a moment in the thermodynamic dispersal of the sun and an element in the gravitational whirl of galaxies In this way we routinely transform reality into things already outside of direct human experience things we hardly comprehend even as we speak of DNA climate effects toxic molecules and viruses How do we find ourselves with these disorienting layers of scale Enter *Scale Theory* which provides a foundational theory of scale that explains how scale works the parameters of scalar thinking and how scale refigures reality that teaches us how to think in terms of scale no matter where our interests may lie Joshua DiCaglio takes us on a fascinating journey through six thought experiments that provide clarifying yet provocative definitions for scale and new ways of thinking about classic concepts ranging from unity to identity Because our worldviews and philosophies are largely built on nonscalar experience he then takes us slowly through the ways scale challenges and reconfigures objects subjects and relations *Scale Theory* is in a sense nondisciplinary weaving together a dizzying array of sciences from nanoscience to ecology with discussions from the humanities from philosophy to rhetoric In the process a curious pattern emerges attempts to face the significance of scale inevitably enter terrain closer to mysticism than science Rather than dismiss this connection DiCaglio examines the reasons for it redefining mysticism in terms of scale and integrating contemplative philosophies into the discussion The result is a powerful account of the implications and challenges of scale attuned to the way scale

transforms both reality and ourselves

Philosophical Perspectives on the Engineering Approach in Biology Sune Holm, Maria Serban, 2020-06-07 *Philosophical Perspectives on the Engineering Approach in Biology* provides a philosophical examination of what has been called the most powerful metaphor in biology The machine metaphor The chapters collected in this volume discuss the idea that living systems can be understood through the lens of engineering methods and machine metaphors from both historical theoretical and practical perspectives In their contributions the authors examine questions

about scientific explanation and methodology the interrelationship between science and engineering and the impact that the use of engineering metaphors in science may have for bioethics and science communication such as the worry that its wide application reinforces public misconceptions of the nature of new biotechnology and biological life The book also contains an introduction that describes the rise of the machine analogy and the many ways in which it plays a central role in fundamental debates about e g design adaptation and reductionism in the philosophy of biology The book will be useful as a core reading for professionals as well as graduate and undergraduate students in courses of philosophy of science and for life scientists taking courses in philosophy of science and bioethics

Sustainability and Evolution, or why life becomes increasingly complex: The Interaction Theory Michael J. Ruf, 2018-12-14 Thanks to new improving experimental techniques modern biology is discovering a steadily growing body of new facts and data about the living nature A good example of this advancement is the decryption of the complete genome of a rapidly increasing number of organisms including humans Regardless of these impressive results however there are still no satisfying answers to very basic questions of biology such as What is life and Why does matter organize into biological forms that become more complex in the course of evolution The Interaction Theory by Michael J Ruf assumes that this unsatisfying situation is not simply the consequence that certain experimental data are still missing The lack of explanation of what life is actually and why simple molecules evolve into complex organisms rather reflects an existing conceptual problem that can only be solved with a radically new conceptual approach Interaction Theory is the result of such a radically new approach to life and evolution In contrast to conventional evolutionary theory the generation sequences of living forms are considered to be the decisive quality of life By clarifying how the continuation of these generation sequences can be sustainable over billions of years new fundamental principles become obvious and the phenomenon of an increasing biological complexity understandable As a result a law like process of biological complexity increase can be derived as immanent part of the evolution of life This allows Interaction Theory to provide new answers to key questions such as why sexual reproduction what species are and what life is The theory is however not limited to cells and organisms and their evolution It addresses the self organization to higher complexity of all kinds of structures that are subject to an evolution through multiplication processes This means that Interaction Theory also provides an understanding of why and how molecular networks social communities and even societies become more complex over time

The Evolution of Designs Philip Steadman, 2008-06-03 The Evolution of Designs tells the history of the many analogies that have been made since the end of the eighteenth century between the evolution of organisms and the human production of artefacts especially buildings

The ^ATao of Chemistry and Life Eugene H. Cordes, 2009-06-04 Chemistry underlies life This book establishes the relationship between the focal point of chemistry the molecule and the key characteristics of living organisms The key is the interactions between small molecules and macromolecules leading to metabolic control memory and learning the senses and drug action

Scale in Literature and Culture Michael Tavel

Clarke, David Wittenberg, 2017-12-04 This collection emphasizes a cross disciplinary approach to the problem of scale with essays ranging in subject matter from literature to film architecture the plastic arts philosophy and scientific and political writing Its contributors consider a variety of issues provoked by the sudden and pressing shifts in scale brought on by globalization and the era of the Anthropocene including the difficulties of defining the concept of scale the challenges that shifts in scale pose to knowledge formation the role of scale in mediating individual subjectivity and agency the barriers to understanding objects existing in scalar realms different from our own the role of scale in mediating the relationship between humans and the environment and the nature of power authority and democracy at different social scales *The Human*

Swarm Mark W. Moffett, 2019-04-16 The epic story and ultimate big history of how human society evolved from intimate chimp communities into the sprawling civilizations of a world dominating species If a chimpanzee ventures into the territory of a different group it will almost certainly be killed But a New Yorker can fly to Los Angeles or Borneo with very little fear Psychologists have done little to explain this for years they have held that our biology puts a hard upper limit about 150 people on the size of our social groups But human societies are in fact vastly larger How do we manage by and large to get along with each other In this paradigm shattering book biologist Mark W Moffett draws on findings in psychology sociology and anthropology to explain the social adaptations that bind societies He explores how the tension between identity and anonymity defines how societies develop function and fail Surpassing Guns Germs and Steel and Sapiens *The Human Swarm* reveals how mankind created sprawling civilizations of unrivaled complexity and what it will take to sustain them

Prehistoric Life Bruce S. Lieberman, Roger L. Kaesler, 2010-04-23 Prehistoric life is the archive of evolution preserved in the fossil record This book focuses on the meaning and significance of that archive and is designed for introductory college science students including non science majors enrolled in survey courses emphasizing paleontology geology and biology From the origins of animals to the evolution of rap music from ancient mass extinctions to the current biodiversity crisis and from the Snowball Earth to present day climate change this book covers it with an eye towards showing how past life on Earth puts the modern world into its proper context The history of life and the patterns and processes of evolution are especially emphasized as are the interconnections between our planet its climate system and its varied life forms The book does not just describe the history of life but uses actual examples from life's history to illustrate important concepts and theories

Uncertainty and Sensitivity Analysis in Archaeological Computational Modeling Marieka Brouwer Burg, Hans Peeters, William A. Lovis, 2016-05-18 This volume deals with the pressing issue of uncertainty in archaeological modeling Detecting where and when uncertainty is introduced to the modeling process is critical as are strategies for minimizing reconciling or accommodating such uncertainty Included chapters provide unique perspectives on uncertainty in archaeological modeling ranging in both theoretical and methodological orientation The strengths and weaknesses of various identification and mitigation techniques are discussed in particular sensitivity analysis The chapters demonstrate that for

archaeological modeling purposes there is no quick fix for uncertainty indeed each archaeological model requires intensive consideration of uncertainty and specific applications for calibration and validation As very few such techniques have been problematized in a systematic manner or published in the archaeological literature this volume aims to provide guidance and direction to other modelers in the field by distilling some basic principles for model testing derived from insight gathered in the case studies presented Additionally model applications and their attendant uncertainties are presented from distinct spatio temporal contexts and will appeal to a broad range of archaeological modelers This volume will also be of interest to non modeling archaeologists as consideration of uncertainty when interpreting the archaeological record is also a vital concern for the development of non formal or implicit models of human behavior in the past

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