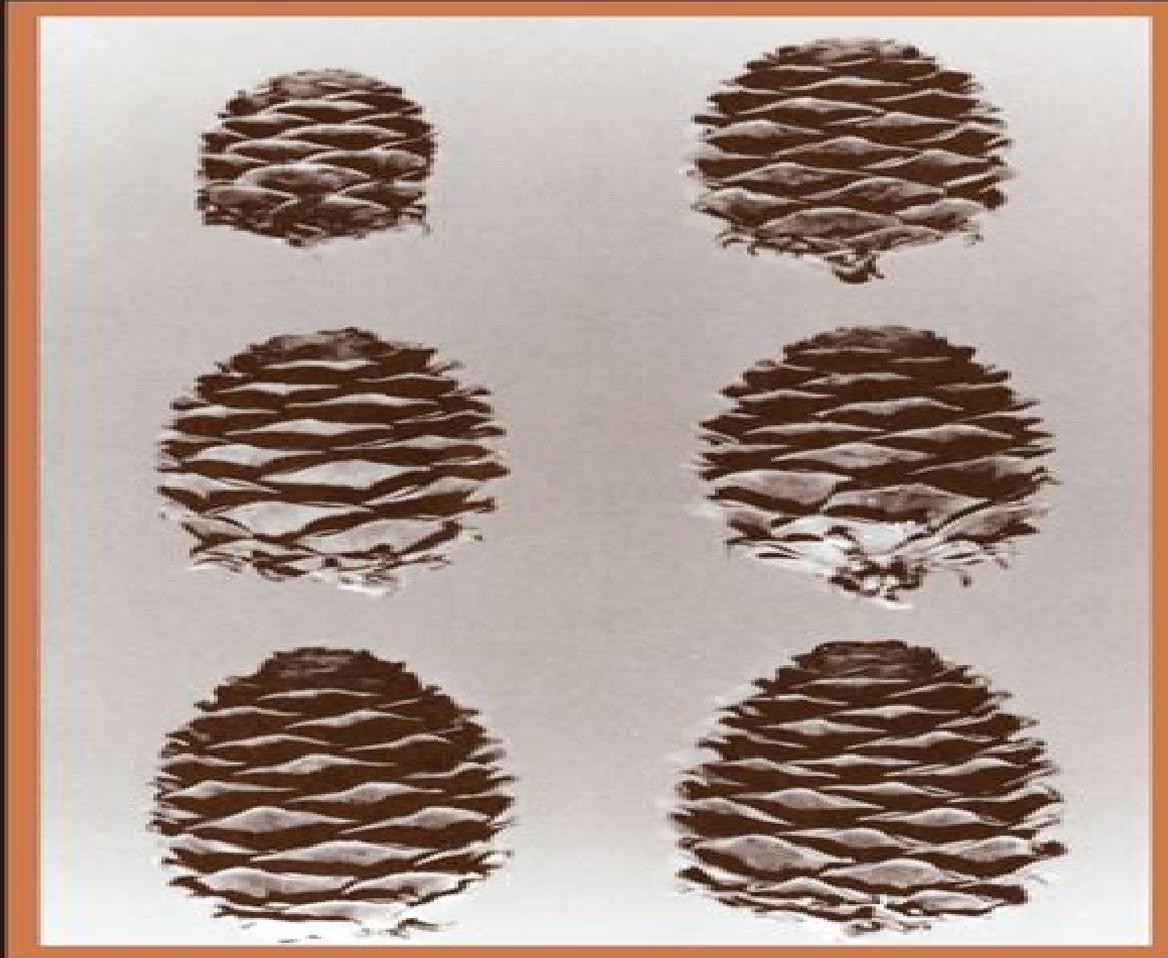


# PLANT ALLOMETRY

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The Scaling of Form and Process



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Karl J. Niklas

# Plant Allometry The Scaling Of Form And Process

**Karl J. Niklas**



## **Plant Allometry The Scaling Of Form And Process:**

**Plant Allometry** Karl J. Niklas, 1994-10-17 Allometry the study of the growth rate of an organism's parts in relation to the whole has produced exciting results in research on animals. Now distinguished plant biologist Karl J. Niklas has written the first book to apply allometry to studies of the evolution, morphology, physiology, and reproduction of plants. Niklas covers a broad spectrum of plant life from unicellular algae to towering trees, including fossil as well as extant taxa. He examines the relation between organic size and variations in plant form, metabolism, reproduction, and evolution, and draws on the zoological literature to develop allometric techniques for the peculiar problems of plant height, the relation between body mass and body length, and size-correlated variations in rates of growth. For readers unfamiliar with the basics of allometry, an appendix explains basic statistical methods. For botanists interested in an original quantitative approach to plant evolution and function, and for zoologists who want to learn more about the value of allometric techniques for studying evolution, *Plant Allometry* makes a major contribution to the study of plant life.

[The Mathematics and Mechanics of Biological Growth](#) Alain Goriely, 2017-05-29 This monograph presents a general mathematical theory for biological growth. It provides both a conceptual and a technical foundation for the understanding and analysis of problems arising in biology and physiology. The theory and methods are illustrated on a wide range of examples and applications. A process of extreme complexity, growth plays a fundamental role in many biological processes and is considered to be the hallmark of life itself. Its description has been one of the fundamental problems of life sciences, but until recently it has not attracted much attention from mathematicians, physicists, and engineers. The author herein presents the first major technical monograph on the problem of growth since D'Arcy Wentworth Thompson's 1917 book *On Growth and Form*. The emphasis of the book is on the proper mathematical formulation of growth kinematics and mechanics. Accordingly, the discussion proceeds in order of complexity, and the book is divided into five parts. First, a general introduction on the problem of growth from a historical perspective is given. Then, basic concepts are introduced within the context of growth in filamentary structures. These ideas are then generalized to surfaces and membranes, and eventually to the general case of volumetric growth. The book concludes with a discussion of open problems and outstanding challenges. Thoughtfully written and richly illustrated, it is accessible to readers of varying interests and background. The text will appeal to life scientists, biophysicists, biomedical engineers, and applied mathematicians alike.

[Ecology and Biomechanics](#) Anthony Herrel, Thomas Speck, Nicholas P. Rowe, 2006-01-13 We live in a well-engineered universe. This engineering is present in every system and organism in existence, including in the actions and interactions of plants and animals. In fact, one could say that the function and movement of plants and animals is just as much a part of their makeup as chlorophyll and fiber or bone and blood. Consequently, if

[Morphological Plant Modeling: Unleashing Geometric and Topological Potential within the Plant Sciences](#) Alexander Bucksch, Dan Chitwood, 2017-10-13 An increasing population faces the growing demand for agricultural products and accurate global

climate models that account for individual plant morphologies to predict favorable human habitat Both demands are rooted in an improved understanding of the mechanistic origins of plant development Such understanding requires geometric and topological descriptors to characterize the phenotype of plants and its link to genotypes However the current plant phenotyping framework relies on simple length and diameter measurements which fail to capture the exquisite architecture of plants The Research Topic Morphological Plant Modeling Unleashing Geometric and Topological Potential within the Plant Sciences is the result of a workshop held at National Institute for Mathematical and Biological Synthesis NIMBioS in Knoxville Tennessee From 2 4 September 2015 over 40 scientists from mathematics computer science engineering physics and biology came together to set new frontiers in combining plant phenotyping with recent results from shape theory at the interface of geometry and topology In doing so the Research Topic synthesizes the views from multiple disciplines to reveal the potential of new mathematical concepts to analyze and quantify the relationship between morphological plant features As such the Research Topic bundles examples of new mathematical techniques including persistent homology graph theory and shape statistics to tackle questions in crop breeding developmental biology and vegetation modeling The challenge to model plant morphology under field conditions is a central theme of the included papers to address the problems of climate change and food security that require the integration of plant biology and mathematics from geometry and topology research applied to imaging and simulation techniques The introductory white paper written by the workshop participants identifies future directions in research education and policy making to integrate biological and mathematical approaches and to strengthen research at the interface of both disciplines

**Scaling and Uncertainty Analysis in Ecology** Jianguo Wu, K. Bruce Jones, Harbin Li, Ori L. Loucks, 2006-07-02 Primarily the book draws together a series of important case studies to provide a comprehensive review and synthesis of the most recent concepts theories and methods in scaling and uncertainty analysis It compares current definitions and ideas concerning scale within a coherent framework and examines two key scaling approaches similarity based scaling which is rooted in the idea of similitude or self similarity and dynamic model based scaling which emphasizes processes and mechanisms With case studies focusing on issues ranging from population to ecosystem processes from biodiversity to landscape patterns and from basic research to multidisciplinary management and policy making the book will appeal to both researchers and practitioners working on landscape issues It will also provide a valuable resource for graduate students and professional trainees in ecology environmental policy resource management and global change science

*Conceptual Change in Biology* Alan C. Love, 2014-11-07 This volume explores questions about conceptual change from both scientific and philosophical viewpoints by analyzing the recent history of evolutionary developmental biology It features revised papers that originated from the workshop Conceptual Change in Biological Science Evolutionary Developmental Biology 1981 2011 held at the Max Planck Institute for the History of Science in Berlin in July 2010 The Preface has been written by Ron Amundson In these papers philosophers and biologists compare and contrast key

concepts in evolutionary developmental biology and their development since the original seminal Dahlem conference on evolution and development held in Berlin in 1981. Many of the original scientific participants from the 1981 conference are also contributors to this new volume and in conjunction with other expert biologists and philosophers specializing on these topics provide an authoritative comprehensive view on the subject. Taken together the papers supply novel perspectives on how and why the conceptual landscape has shifted and stabilized in particular ways yielding insights into the dynamic epistemic changes that have occurred over the past three decades. This volume will appeal to philosophers of biology studying conceptual change, evolutionary developmental biologists focused on comprehending the genesis of their field and evaluating its future directions, and historians of biology examining this period when the intersection of evolution and development rose again to prominence in biological science.

**Encyclopedia of Theoretical Ecology** Alan Hastings, Louis J. Gross, 2012-05-31. A bold and successful attempt to illustrate the theoretical foundations of all of the subdisciplines of ecology including basic and applied and extending through biophysical, population, community and ecosystem ecology. The *Encyclopedia of Theoretical Ecology* is a compendium of clear and concise essays by the intellectual leaders across this vast breadth of knowledge. Harold Mooney, Stanford University. A remarkable and indispensable reference work that also is flexible enough to provide essential readings for a wide variety of courses. A masterful collection of authoritative papers that convey the rich and fundamental nature of modern theoretical ecology. Simon A. Levin, Princeton University. Theoretical ecologists exercise their imaginations to make sense of the astounding complexity of both real and possible ecosystems. Imagining a real or possible topic left out of the *Encyclopedia of Theoretical Ecology* has proven just as challenging. This comprehensive compendium demonstrates that theoretical ecology has become a mature science and the volume will serve as the foundation for future creativity in this area. Fred Adler, University of Utah. The editors have assembled an outstanding group of contributors who are a great match for their topics. Sometimes the author is a key authoritative figure in a field and at other times the author has enough distance to convey all sides of a subject. The next time you need to introduce ecology students to a theoretical topic you'll be glad to have this encyclopedia on your bookshelf. Stephen Ellner, Cornell University. Everything you wanted to know about theoretical ecology and much that you didn't know you needed to know but will now. Alan Hastings and Louis Gross have done us a great service by bringing together in very accessible form a huge amount of information about a broad, complicated and expanding field. Daniel Simberloff, University of Tennessee Knoxville.

[Plants](#) Martin Ingrouille, Bill Eddie, 2006-08-17. Plants are so much part of our environment that we often take them for granted yet beautiful, fascinating and useful plants are everywhere from isolated moss colonies on stone walls to vast complex communities within tropical rainforests. How did this array of form and habitat come about and how do we humans interact with the plant kingdom? This unique new textbook provides a refreshing and stimulating consideration of these questions and throws light in a new way on the complexity, ecology, evolution and development of plants and our relationship with them.

Illustrated throughout with numerous line diagrams and beautiful colour photographs the book provides a comprehensive introduction to the fascinating lives that plants lead and the way in which our lives are inextricably linked to theirs It will be particularly useful to students seeking a more ecological and process oriented approach than is available in other plant science textbooks

Studying Tree Responses to Extreme Events Achim Bräuning, Andreas Bolte, Cristina Nabais, Sergio Rossi, Ute Sass-Klaassen, 2017-06-05

Trees are among the longest living organisms They are sensitive to extreme climatic events and document the effects of environmental changes in form of structural modifications of their tissues These modifications represent an integrated signal of complex biological responses enforced by the environment For example temporal change in stem increment integrates multiple information of tree performance and wood anatomical traits may be altered by climatic extremes or environmental stress Recent developments in preparative tools and computational image analysis enable to quantify changes in wood anatomical features like vessel density or vessel size Thus impacts on their functioning can be related to climatic forcing factors Similarly new developments in monitoring cambial phenology and mechanistic modelling are enlightening the interrelationships between environmental factors wood formation and tree performance and mortality Quantitative wood anatomy is a reliable indicator of drought occurrence during the growing season and therefore has been studied intensively in recent years The variability in wood anatomy not only alters the biological and hydraulic functioning of a tree but may also influence the technological properties of wood with substantial impacts in forestry On a larger scale alterations of sapwood and phloem area and their ratios to other functional traits provide measures to detect changes in a tree's life functions and increasing risk of drought induced mortality with possible impacts on hydrological processes and species composition of plant communities Genetic variability within and across populations is assumed to be crucial for species survival in an unpredictable future world The magnitude of genetic variation and heritability of adaptive traits might define the ability to adapt to climate change Is there a relation between genetic variability and resilience to climate change Is it possible to link genetic expression and climate change to obtain deeper knowledge of functional genetics To derive precise estimates of genetic determinism it is important to define adaptive traits in wood properties and on a whole tree scale Understanding the mechanisms ruling these processes is fundamental to assess the impact of extreme climate events on forest ecosystems and to provide realistic scenarios of tree responses to changing climates Wood is also a major carbon sink with a long term residence impacting the global carbon cycle How well do we understand the link between wood growth dynamics wood carbon allocation and the global carbon cycle Papers contribution to this Research Topic will cover a wide range of ecosystems However special relevance will be given to Mediterranean type areas These involve coastal regions of four continents making Mediterranean type ecosystems extremely interesting for investigating the potential impacts of global change on growth and for studying responses of woody plants under extreme environmental conditions For example the ongoing trend towards warmer temperatures and reduced precipitation can

increase the susceptibility to fire and pests The EU funded COST Action STREeSS Studying Tree Responses to extreme Events a SynthesiS addresses such crucial tree biological and forest ecological issues by providing a collection of important methodological and scientific insights about the current state of knowledge and by opinions for future research needs

**Physicochemical & Environmental Plant Physiology** Park S. Nobel,1999 In fundamental ways the functioning of all living systems obeys the laws of physics and chemistry This is true for all physiological processes that occur inside cells tissues organs and organisms This new edition of a classic text has been thoroughly revised while maintaining its unparalleled commitment to the clear presentation and student user friendliness Certain to maintain its leading role in the teaching of general and comparative physiological principles Physicochemical and Environmental Plant Physiology 2nd Edition establishes a new standard of excellence in the teaching of quantitative plant physiology Encyclopedia of Evolution Stanley A. Rice,2009 Evolutionary science is not only one of the greatest breakthroughs of modern science but also one of the most controversial Perhaps more than any other scientific area evolutionary science has caused us all to question what we are where we came from and how we relate to the rest of the universe Encyclopedia of Evolution contains more than 200 entries that span modern evolutionary science and the history of its development This comprehensive volume clarifies many common misconceptions about evolution For example many people have grown up being told that the fossil record does not demonstrate an evolutionary pattern and that there are many missing links In fact most of these missing links have been found and their modern representatives are often still alive today The biographical entries represent evolutionary scientists within the United States who have had and continue to have a major impact on the broad outline of evolutionary science The biographies chosen reflect the viewpoints of scientists working within the United States Five essays that explore interesting questions resulting from studies in evolutionary science are included as well The appendix consists of a summary of Charles Darwin s Origin of Species which is widely considered to be the foundational work of evolutionary science and one of the most important books in human history The five essays include How much do genes control human behavior What are the ghosts of evolution Can an evolutionary scientist be religious Why do humans die Are humans alone in the universe *Ecology* ,1995 *Paperbound Books in Print* 1995 Reed Reference Publishing,R5ference Reed,1995-12 *American Journal of Botany* ,2007 **Australian Journal of Botany** ,2005 *Journal of Vertebrate Paleontology* ,2006 *Acta Theriologica* ,2003 Carbon Dynamics of a Boreal Black Spruce Fire Chronosequence Benjamin Bond-Lamberty,2003 *Bulletin of the American Museum of Natural History* ,2009 The Evolution of Plant Architecture Marie Helena Kurmann,Alan R. Hemsley,Royal Botanic Gardens, Kew,1999 Plant architecture is the morphological manifestation of the genetic make up of a plant at any one stage during its development Application of accurate architectural models provides a wealth of information about living and extinct plants especially in regard to growth pattern and development The Evolution ofPlant Architecture brings together contributions from specialists in many different fields including ecology palaeobotany

systematics and evolution

## Unveiling the Magic of Words: A Overview of "**Plant Allometry The Scaling Of Form And Process**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Plant Allometry The Scaling Of Form And Process**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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