

SIZE, FUNCTION, AND LIFE HISTORY



William A. Calder III

Size Function And Life History

William A. Calder



Size Function And Life History:

Size, Function, and Life History William A. Calder, 1996-01-01 Zoologist provides a quantitative baseline for comparative zoology and demonstrates the value of allometric correlations as an analytical tool New Introduction References **Size, Function, and Life History** William A. Calder III, 1984 *Functions, Data, and Models* Sheldon P. Gordon, Florence S. Gordon, 2025-02-24 This is a college algebra level textbook written to provide the kind of mathematical knowledge and experiences that students will need for courses in other fields such as biology chemistry business finance economics and other areas that are heavily dependent on data either from laboratory experiments or from other studies The focus is on the fundamental mathematical concepts and the realistic problem solving via mathematical modeling rather than the development of algebraic skills that might be needed in calculus Functions Data and Models presents college algebra in a way that differs from almost all college algebra books available today Rather than going over material covered in high school courses the Gordons teach something new Students are given an introduction to data analysis and mathematical modeling presented at a level that students with limited algebraic skills can understand The book contains a rich set of exercises many of which use real data Also included are thought experiments or what if questions that are meant to stretch the student's mathematical thinking Macroecology: Concepts and Consequences British Ecological Society. Symposium, 2003-08 Macroecology Concepts and Consequences brings together for the first time major researchers in the field to present overviews of current thinking about the form and determinants of macroecological patterns Each section presents different viewpoints on the answer to a key question in macroecology such as why are most species rare why are most species small bodied and why are most species restricted in their distribution **Complex Systems Science in Biomedicine** Thomas Deisboeck, J. Yasha Kresh, 2007-06-13 Complex Systems Science in Biomedicine Thomas S Deisboeck and J Yasha Kresh Complex Systems Science in Biomedicine covers the emerging field of systems science involving the application of physics mathematics engineering and computational methods and techniques to the study of biomedicine including nonlinear dynamics at the molecular cellular multi cellular tissue and organismic level With all chapters helmed by leading scientists in the field Complex Systems Science in Biomedicine's goal is to offer its audience a timely compendium of the ongoing research directed to the understanding of biological processes as whole systems instead of as isolated component parts In Parts I II Complex Systems Science in Biomedicine provides a general systems thinking perspective and presents some of the fundamental theoretical underpinnings of this rapidly emerging field Part III then follows with a multi scaled approach spanning from the molecular to macroscopic level exemplified by studying such diverse areas as molecular networks and developmental processes the immune and nervous systems the heart cancer and multi organ failure The volume concludes with Part IV that addresses methods and techniques driven in design and development by this new understanding of biomedical science Key Topics Include Historic Perspectives of General Systems Thinking Fundamental Methods and

Techniques for Studying Complex Dynamical Systems Applications from Molecular Networks to Disease Processes Enabling Technologies for Exploration of Systems in the Life Sciences Complex Systems Science in Biomedicine is essential reading for experimental theoretical and interdisciplinary scientists working in the biomedical research field interested in a comprehensive overview of this rapidly emerging field About the Editors Thomas S Deisboeck is currently Assistant Professor of Radiology at Massachusetts General Hospital and Harvard Medical School in Boston An expert in interdisciplinary cancer modeling Dr Deisboeck is Director of the Complex Biosystems Modeling Laboratory which is part of the Harvard MIT Martinos Center for Biomedical Imaging J Yasha Kresh is currently Professor of Cardiothoracic Surgery and Research Director Professor of Medicine and Director of Cardiovascular Biophysics at the Drexel University College of Medicine An expert in dynamical systems he holds appointments in the School of Biomedical Engineering and Health Systems Dept of Mechanical Engineering and Molecular Pathobiology Program Prof Kresh is Fellow of the American College of Cardiology American Heart Association Biomedical Engineering Society American Institute for Medical and Biological Engineering

Metabolic Ecology Richard M. Sibly, James H. Brown, Astrid Kodric-Brown, 2012-04-30 Metabolic Ecology Most of ecology is about metabolism the ways that organisms use energy and materials The energy requirements of individuals their metabolic rates vary predictably with their body size and temperature Ecological interactions are exchanges of energy and materials between organisms and their environments Therefore metabolic rate affects ecological processes at all levels individuals populations communities and ecosystems Each chapter focuses on a different process level of organization or kind of organism It lays a conceptual foundation and presents empirical examples Together the chapters provide an integrated framework that holds the promise for a unified theory of ecology The book is intended to be accessible to upper level undergraduates and graduate students but also of interest to senior scientists Its easy to read chapters and clear illustrations can be used in lecture and seminar courses This is an authoritative treatment that will inspire future generations to study metabolic ecology

Marsupial Biology Norman Saunders, Lyn Hinds, 1997 Marsupial Biology developed from contributions commissioned from those attending an international symposium held in honour of Hugh Tyndale Biscoe Australia's most celebrated marsupial biology authority and co author of the previous leading marsupial biology text published more than 15 years ago The book does not comprise papers of narrow focus read at the symposium but chapters reviewing the knowledge in each key area written to a book format It has been tightly edited to ensure a great degree of harmony and is suitable as a comprehensive reference text for graduate and undergraduate students

The Princeton Guide to Ecology Simon A. Levin, Stephen R. Carpenter, H. Charles J. Godfray, Ann P. Kinzig, Michel Loreau, Jonathan B. Losos, Brian Walker, David S. Wilcove, 2012-09-30 The Princeton Guide to Ecology is a concise authoritative one volume reference to the field's major subjects and key concepts Edited by eminent ecologist Simon Levin with contributions from an international team of leading ecologists the book contains more than ninety clear accurate and up to date articles on the most important topics within

seven major areas autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere management Complete with more than 200 illustrations including sixteen pages in color a glossary of key terms a chronology of milestones in the field suggestions for further reading on each topic and an index this is an essential volume for undergraduate and graduate students research ecologists scientists in related fields policymakers and anyone else with a serious interest in ecology Explains key topics in one concise and authoritative volume Features more than ninety articles written by an international team of leading ecologists Contains more than 200 illustrations including sixteen pages in color Includes glossary chronology suggestions for further reading and index Covers autecology population ecology communities and ecosystems landscapes and the biosphere conservation biology ecosystem services and biosphere management *Oxford Surveys in Evolutionary Biology* Douglas Futuyma, Janis Antonovics, 1992-10-08 Part of a continuing series on evolutionary biology this volume contains essays on morphology symbiosis co evolution among competitors and the implications of DNA variations on human evolution among other topics

An Introduction to Structured Population Dynamics J. M. Cushing, 1998-01-01 Interest in the temporal fluctuations of biological populations can be traced to the dawn of civilization How can mathematics be used to gain an understanding of population dynamics This monograph introduces the theory of structured population dynamics and its applications focusing on the asymptotic dynamics of deterministic models This theory bridges the gap between the characteristics of individual organisms in a population and the dynamics of the total population as a whole In this monograph many applications that illustrate both the theory and a wide variety of biological issues are given along with an interdisciplinary case study that illustrates the connection of models with the data and the experimental documentation of model predictions The author also discusses the use of discrete and continuous models and presents a general modeling theory for structured population dynamics Cushing begins with an obvious point individuals in biological populations differ with regard to their physical and behavioral characteristics and therefore in the way they interact with their environment Studying this point effectively requires the use of structured models Specific examples cited throughout support the valuable use of structured models Included among these are important applications chosen to illustrate both the mathematical theories and biological problems that have received attention in recent literature

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