

David M. Gates

Biophysical Ecology



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Biophysical Ecology Springer Advanced Texts In Life Sciences

U. Förstner, G.T.W. Wittmann



Biophysical Ecology Springer Advanced Texts In Life Sciences:

Biophysical Ecology David M. Gates, 2012-04-26 This classic and highly influential text presents a uniquely comprehensive view of the field of biophysical ecology In its analytical interpretation of the ecological responses of plants and animals to their environments it draws upon studies of energy exchange gas exchange and chemical kinetics The first four chapters offer a preliminary treatment of the applications of biophysical ecology discussing energy and energy budgets and their applications to plants and animals and defining radiation laws and units Succeeding chapters concern the physical environment covering the topics of radiation convection conduction and evaporation The spectral properties of radiation and matter are reviewed along with the geometrical instantaneous daily and annual amounts of both shortwave and longwave radiation The book concludes with more elaborate analytical methods for the study of photosynthesis in plants and energy budgets in animals in addition to animal and plant temperature responses This text will prove of value to students and environmental researchers from a variety of fields particularly ecology agronomy forestry botany and zoology *Biophysical Ecology* D. M. Gates, 2014-01-15 **Biophysical Ecology** David Murray Gates, 1980 *Biophysical Ecology* D. M. Gates, 2012-12-06 The objective of this book is to make analytical methods available to students of ecology The text deals with concepts of energy exchange gas exchange and chemical kinetics involving the interactions of plants and animals with their environments The first four chapters are designed to show the applications of biophysical ecology in a preliminary simplified manner Chapters 5-10 treating the topics of radiation convection conduction and evaporation are concerned with the physical environment The spectral properties of radiation and matter are thoroughly described as well as the geometrical instantaneous daily and annual amounts of both shortwave and longwave radiation Later chapters give the more elaborate analytical methods necessary for the study of photosynthesis in plants and energy budgets in animals The final chapter describes the temperature responses of plants and animals The discipline of biophysical ecology is rapidly growing and some important topics and references are not included due to limitations of space cost and time The methodology of some aspects of ecology is illustrated by the subject matter of this book It is hoped that future students of the subject will carry it far beyond its present status Ideas for advancing the subject matter of biophysical ecology exceed individual capacities for effort and even today many investigators in ecology are studying subjects for which they are inadequately prepared The potential of modern science in the minds and hands of skilled investigators to of the interactions of organisms with their advance our understanding environment is enormous **Biophysics** W. Hoppe, W. Lohmann, H. Markl, H. Ziegler, 2012-12-06 What is biophysics As with all subjects which straddle traditional boundaries between fields it eludes a precise definition Furthermore it is impossible to do biophysics without having a certain foundation of knowledge in biology physics physical chemistry chemistry and biochemistry One approach to a biophysics textbook would be to refer the student to the literature of these neighboring fields and to leave the selection of the appropriate supplementary material up to the student The editors

of this volume are of the opinion that it is more useful and less time consuming to present a selection of the supplementary knowledge in concentrated form together with the subject matter specific to biophysics. The reader will thus find in this book introductions to such subjects as the structure and function of the cell, the chemical structure of biogenic macromolecules and even theoretical chemistry. What indeed is biophysics? Must we consider it to include physiology, electromedicine, radiation medicine, etc. The field has evolved continuously in recent years. Molecular understanding of life processes has come more and more to the fore. Just as the field of molecular physics has developed to describe structures and processes in the realm of non living systems, there has been a corresponding development of molecular biophysics.

National Library of Medicine Current Catalog National Library of Medicine (U.S.), 1973. First multi year cumulation covers six years 1965-70. Metal Pollution in the Aquatic Environment U. Förstner, G.T.W. Wittmann, 2012-12-06. Aquatic chemistry is becoming both a rewarding and substantial area of inquiry and is drawing many prominent scientists to its fold. Its literature has changed from a compilation of compositional tables to studies of the chemical reactions occurring within the aquatic environments. But more than this is the recognition that human society in part is determining the nature of aquatic systems. Since rivers deliver to the world ocean most of its dissolved and particulate components, the interactions of these two sets of waters determine the vitality of our coastal waters. This significant volume provides not only an introduction to the dynamics of aquatic chemistries but also identifies those materials that jeopardize the resources of both the marine and fluvial domains. Its very title provides its emphasis but clearly not its breadth in considering natural processes. The book will be of great value to those environmental scientists who are dedicated to keeping the resources of the hydrosphere renewable. As the size of the world population becomes larger in the near future and as the uses of materials and energy show parallel increases, the rivers and oceans must be considered as a resource to accept some of the wastes of society. The ability of these waters and the sediments below them to accommodate wastes must be assessed continually. The key questions relate to the capacities of aqueous systems to carry one or more pollutants.

Ecological Microcosms Robert J. Beyers, Howard T. Odum, 2012-12-06. *Ecological Microcosms* is a seminal work which reviews the expanding field of enclosed ecosystem research and relates the results and models of microcosm studies to general concepts in ecology. Microcosms are miniaturized pieces of our biosphere ranging from streams and lakes to terraria, agroecosystems and waste systems. The study of these simplified ecosystems is providing provocative insights into ecological principles as well as issues of environmental management and global stability. The authors have used the well known thermodynamic approach of H. T. Odum and numerous computer simulations. The book also includes an evaluation of alternative mesocosm approaches for the support of humans in space as well as appendices to aid in the teaching of environmental concepts using student created microcosms. *Ecological Microcosms* will be of interest to ecologists, environmental engineers, policy makers and environmental managers, space scientists and educators. Robert J. Beyers is a Professor of Biology at the University of South Alabama. Howard T. Odum is Graduate Research Professor of Environmental

Engineering Sciences at the University of Florida and was awarded with Eugene Odum the 1987 Crafoord Prize in the Biosciences

Solar Buildings and Neighborhoods Caroline Hachem-Vermette, 2020-05-30 This book presents the main principles for designing buildings and neighborhoods with increased potential to capture and utilize solar energy It discusses practical issues in the design of the built environment and their impact on energy performance and a range of design considerations from building components e g the building envelope to urban planning issues e g density and street layouts In addition to design guidelines on how to increase buildings potential to capture solar energy the book provides creative tips to increase the aesthetic value of solar technology integration in buildings Helping readers plan energy efficient buildings with innovative building envelope technologies and to understand the impact of early stage design considerations on the energy performance of buildings and communities the book offers a valuable source of information for building professionals including architects engineers and urban planners It can also serve as a reference guide for academics and students of energy efficiency in buildings and urban planning

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Table of Contents Biophysical Ecology Springer Advanced Texts In Life Sciences

1. Understanding the eBook Biophysical Ecology Springer Advanced Texts In Life Sciences
 - The Rise of Digital Reading Biophysical Ecology Springer Advanced Texts In Life Sciences
 - Advantages of eBooks Over Traditional Books
2. Identifying Biophysical Ecology Springer Advanced Texts In Life Sciences
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Biophysical Ecology Springer Advanced Texts In Life Sciences
 - User-Friendly Interface
4. Exploring eBook Recommendations from Biophysical Ecology Springer Advanced Texts In Life Sciences

- Personalized Recommendations
- Biophysical Ecology Springer Advanced Texts In Life Sciences User Reviews and Ratings
- Biophysical Ecology Springer Advanced Texts In Life Sciences and Bestseller Lists
- 5. Accessing Biophysical Ecology Springer Advanced Texts In Life Sciences Free and Paid eBooks
 - Biophysical Ecology Springer Advanced Texts In Life Sciences Public Domain eBooks
 - Biophysical Ecology Springer Advanced Texts In Life Sciences eBook Subscription Services
 - Biophysical Ecology Springer Advanced Texts In Life Sciences Budget-Friendly Options
- 6. Navigating Biophysical Ecology Springer Advanced Texts In Life Sciences eBook Formats
 - ePub, PDF, MOBI, and More
 - Biophysical Ecology Springer Advanced Texts In Life Sciences Compatibility with Devices
 - Biophysical Ecology Springer Advanced Texts In Life Sciences Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Biophysical Ecology Springer Advanced Texts In Life Sciences
 - Highlighting and Note-Taking Biophysical Ecology Springer Advanced Texts In Life Sciences
 - Interactive Elements Biophysical Ecology Springer Advanced Texts In Life Sciences
- 8. Staying Engaged with Biophysical Ecology Springer Advanced Texts In Life Sciences
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Biophysical Ecology Springer Advanced Texts In Life Sciences
- 9. Balancing eBooks and Physical Books Biophysical Ecology Springer Advanced Texts In Life Sciences
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Biophysical Ecology Springer Advanced Texts In Life Sciences
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Biophysical Ecology Springer Advanced Texts In Life Sciences
 - Setting Reading Goals Biophysical Ecology Springer Advanced Texts In Life Sciences
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Biophysical Ecology Springer Advanced Texts In Life Sciences

- Fact-Checking eBook Content of Biophysical Ecology Springer Advanced Texts In Life Sciences
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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