

DAVID M. GATES

BIOPHYSICAL ECOLOGY



Biophysical Ecology David M Gates

David M. Gates



Biophysical Ecology David M Gates:

Biophysical Ecology David M. Gates, 2003-07-29 This classic text discusses radiation convection conduction and evaporation surveying methods for the study of photosynthesis in plants and energy budgets in animals an excellent resource for a variety of fields particularly ecology agronomy forestry botany and zoology Coherent and comprehensible The American Biology Teacher 174 figures 30 tables

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

Perspectives of Biophysical Ecology D.M. Gates, R.B. Schmerl, 2012-12-06 A symposium on biophysical ecology was held at The University of Michigan Biological Station on Douglas Lake August 20-24 1973 Biophysical ecology is an approach to ecology which uses fundamental principles of physics and chemistry along with mathematics as a tool to understand the interactions between organisms and their environment It is fundamentally a mechanistic approach to ecology and as such it is amenable to theoretical modeling A theoretical model applied to an organism and its interactions with its environment should include all the significant environmental factors organism properties and the mechanisms that connect these things together in an appropriate organism response The purpose of a theoretical model is to use it to explain observed facts and to make predictions beyond the realm of observation which can be verified or denied by further observation If the predictions are confirmed the model must be reasonably complete except for second or third order refinements If the predictions are denied by further observation one must go back to the basic ideas that entered the model and decide what has been overlooked or even what has been included that perhaps should not have been Theoretical modeling must always have recourse to experiment in the laboratory and observation in the field For plants a theoretical model might be formulated to

explain the manner and magnitude by which various environmental factors affect leaf temperature Biophysical Ecology
D. M. Gates,2014-01-15 **Biophysical Ecology** David Murray Gates,1980 **David Murray Gates, Physicist and**
Biophysical Ecologist David Murray Gates,2005 Perspectives of Biophysical Ecology David Murray Gates,Rudolf B.
Schmerl,1975 Analytical models of plants Extreme climate and plant productivity Water transport and environmental control
of diffusion Theoretical models of animals Observation of animal body temperatures Energy transfer studies of animals
 Current Catalog National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 **USDA**
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