



Biophysical Ecology (Dover Books on Biology)

David M. Gates

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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.

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