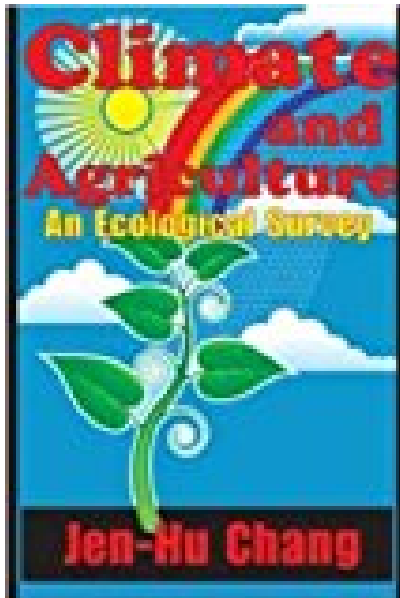


Climate and Agriculture An Ecological Survey



BOOK DETAILS

- Author : Jen-Hu Chang
- Pages : 320 Pages
- Publisher : Aldine Transaction
- Language : English
- ISBN : 0202362493



BOOK SYNOPSIS

This summary of what is known about microclimatic environments and the effects of climate on plant growth presents a comprehensive statement on the complex relationship between climate and agriculture. The author covers the theory and data of modern physical geography, meteorology, and agronomy within the context of contemporary ecological analysis to produce a book invaluable not only to the student and research worker but also one that deals for the first time with the application of theory to real problems of energy budgets and water balance for the practical agronomist. Arranged according to the physical processes that affect the climate/plant relationship, the book is divided into two parts. The first part considers radiation flux in the free atmosphere and in the biosphere near the ground, the processes of photosynthesis and photoperiodism, and the effect of radiation and temperature on plant growth. The second part discusses in detail methods of determining or estimating both potential and actual evapotranspiration, the meteorological approach of computing water balance, and the effect of water on plant growth. The authors clear and logical presentation of material, emphasizing general principles rather than experimental and technical details, makes this book especially useful for students of agricultural climatology. The broad scope of the work and its comprehensive survey of the literature make it equally a valuable reference for professionals in physical geography, meteorology, agronomy, botany, plant physiology, soil science, and hydrology. Jen-Hu Chang is professor emeritus of geography and climatology at the University of Hawaii. He is a past member of the editorial board of the *Annals of the Association of American Geographers* and is past secretary of the Hawaiian Geophysical Society. He is the author of *Atmospheric Circulation Systems and Climates*, *Agricultural Geography of Taiwan*, and *Problems and Methods in Agricultural Climatology*.

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