The Climate Near the Ground

Rudolf Geiger, Robert H. Aron, Paul Todhunter
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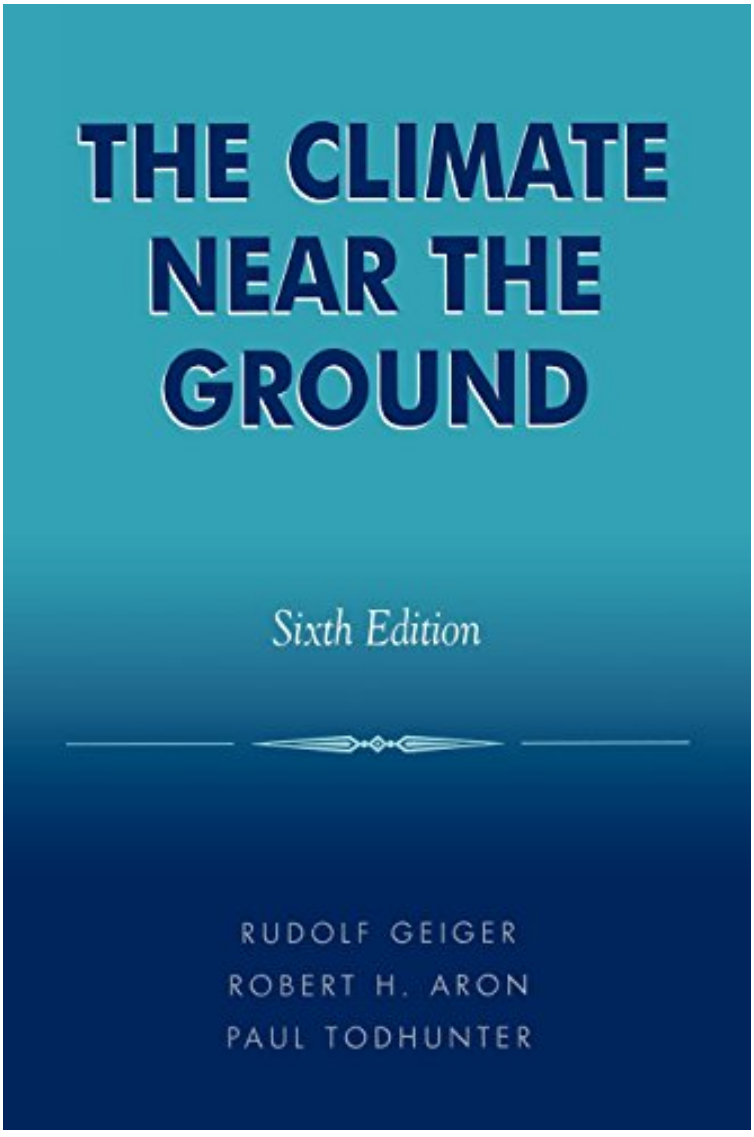

#4056351 in Books Rowman n Littlefield Publishers 2003-04-09Ingredients: Example IngredientsOriginal language:EnglishPDF # 1 10.34 x 1.28 x 7.06l, 2.71 #File Name: 0742518574600 pages | File size: 30.Mb

Rudolf Geiger, Robert H. Aron, Paul Todhunter : The Climate Near the Ground before purchasing it in order to gage whether or not it would be worth my time, and all praised The Climate Near the Ground:

0 of 0 people found the following review helpful. Wonderful resource, very readable, graphics need updatingBy Iain C. MasseyI bought this book because the topic fascinates me, as a land user and manager, and not because it's a prescribed text. I had wanted it for years, because Mollison and Holmgren, the inventors of Permaculture, make good use of some of the insights.The book is a fantastic resource, comprehensive and accessible. If microclimatology

interests you, and/or you want to know how and why microclimate affects you and yours, get it. It's real science, not pop science review, and parts may challenge you. But the material starts from an introduction to the behaviour of an idealised, simple surface subject to radiation of various kinds, and builds from there. Complicating factors like an atmosphere, vegetation, topology and human interventions are introduced progressively. At every step, there is fascinating experimental evidence to ponder. The treatment is certainly accessible to this amateur.One gripe: it's long past time to update the illustrations and graphs. Informative as they are, they are seriously showing their age, and some are a little hard to read due to (I take it) photo-reproduction from old journals.Overall, this is a long-term, valuable resource for my bookshelf.

This revised and updated edition of Rudolf Geiger's classic text provides a clear and vivid description of the surface microclimate, its physical basis, and its interactions with the biosphere. The book explains the principles of microclimatology and illustrates how they apply to a wide array of subfields. Those new to the field will find it especially valuable as a guide to understanding and quantifying the vast and ever-increasing literature on the subject. This edition has been revised to keep abreast of current research in microclimatology, to provide more examples of work from North America, and to more clearly illustrate how surface energy fluxes are linked to the nature of the surface environment. The authors have added discussions dealing with the speed of sound, the use of vegetative barriers to reduce sound, and physiological control of energy and moisture exchanges. They have also expanded the discussion of microclimatic effects on animal and human behavior and dwellings. Designed as an introductory text for students in environmental science, this book will also be an essential reference for scientists seeking a clear understanding of the nature and physical basis of the climate near the ground, and its interactions with the biosphere.

Aron and Todhunter truly have paid a great tribute to the revered microclimatologist Rudolf Geiger by this revision. As they state in the preface, their goal for this edition continues that of the previous editions, i.e., to present 'a clear and vivid textbook for those who are just taking up the study of microclimatology and, at the same time, to serve as a reference work for those already familiar with the subject.' In my opinion, they have succeeded. (Katharine B. Perry)The authors have done a wonderful job of maintaining Geiger's tradition of excellence. I believe [the 5th edition] can help a new generation of students and scientists understand the mysteries and wonders of their surroundings. (John W. Enz)This is an updated edition of a well-known work that provides a clear description of the surface microclimate, its physical basis, and its interactions with the biosphere. This edition has been revised to keep abreast of current research in microclimatology, to provide more examples of work from North America, and to more clearly illustrate how surface energy fluxes are linked to the nature of the surface environment. (American Meteorological Society)Relatively few scientific books have useful lifetimes of over three-quarters of a century. Geiger provided a robust framework for empirical, physically based microclimatology that has stood the test of time. We should be grateful to professors Aron and Todhunter for keeping the text alive and current. (International Journal Of Climatology)This book retains vigorous reasoning and inspiring interpretations on a very wide range of subjects pertaining to the microclimate near the ground. Both the breadth and the depth of the microclimate processes discussed in this book make it a unique resource for those who desire a thorough introduction to the characteristics and causes of the surface microclimate, and a valued reference for both undergraduate and graduate meteorology and climate researchers. (Bulletin Of The American Meteorological Society)Aron and Todhunter have updated Geiger's classic, incorporating numerous observations of climatic elements at the earth's land and sea surfaces and at short distances both above and below that interface. This work is nearly an encyclopedia, but it gives practical answers for general readers. Recommended. (Choice Magazine)About the AuthorThe late Rudolf Geiger was a noted German microclimatologist. Robert H. Aron is professor in the Department of Geography at Central Michigan University. Paul Todhunter is chair of the Department of Geography at the University of North Dakota.