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the radiation regime and
architecture of plant stands
by J. Ross

Radiation Regime And Architecture Of Plant Stands

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Radiation Regime And Architecture Of Plant Stands:

The radiation regime and architecture of plant stands Юхан Росс, J. Ross, 1981-05-31 Role of phytometric investigation in the studies of plant stand architecture and radiation regime Principal phytometric characteristics of stands Phytometrical methods Statistical characteristics of a stand Spatial distribution of phytoelements in stands Foliage area orientation in stands Plant and architecture photosynthesis and productivity Radiation field in a plant stand and the problem of its mathematical modelling Incident radiation Optical properties of phytoelements Penetration of direct solar radiation into a plant stand Penetration of diffuse sky radiation into plant stand Scattering of radiation inside plant stands total radiation field in plant stands Semiempirical formulae for total radiation fluxes Albedo of plant stand Calculation of long wave radiation in a stand Net radiation in plant stands **Radiation Regime and Architecture of Plant Stands** Juhan Ross, 1981 The Radiation Regime and Architecture of Plant Stands J. Ross, 1981-05-31 **The Radiation Regime and Architecture of Plant Stands** Юхан Росс, 1981 The Radiation Regime and Architecture of Plant Stands Juhan Ross, 1981

Photon-Vegetation Interactions Ranga B. Myneni, Juhan Ross, 2012-12-06 Photon Vegetation Interactions deals with the interaction of electromagnetic radiation with vegetation canopies The approach to the various aspects is mainly theoretical and consequently the subject is being treated as a special branch of mathematical physics A major emphasis is on the development of theoretical methods for determining the reflection function of vegetation canopies in optical remote sensing Furthermore the coupling of the radiative transfer theory with leaf photosynthesis to evaluate the productivity of vegetation canopies is treated as well as the theory of photon transport in phototropic and other biological media **Exploitation of Environmental Heterogeneity by Plants**, 2012-12-02 There is a new emerging interest in the effects of gaps and patches on succession and biodiversity This innovative volume is a synthesis of studies of plant responses to temporal and spatial heterogeneity the exploitation of resources from pulses and patches by plants and their competition with neighbors in the face of this variability Aboveground the book focuses upon the nature of canopy patchiness consequences of this heterogeneity for the light environment and the mechanisms by which plants respond to and exploit this patchiness Belowground the text explores the heterogeneity of soil environments and how root systems obtain nutrients and water in the context of this temporal and spatial variability As a new reference in an evolving and growing field this text is sure to be a valuable tool for researchers and advanced students in plant physiology ecology agronomy and forestry alike Changing Climate and Resource use Efficiency in Plants Amitav Bhattacharya, 2018-11-01 Changing Climate and Resource Use Efficiency in Plants reviews the efficiencies for resource use by crop plants under different climatic conditions This book focuses on the challenges and potential remediation methods for a variety of resource factors Chapters deal with the effects of different climatic conditions on agriculture radiation use efficiency under various climatic conditions the efficiency of water and its impact on harvest production under restricted soil moisture conditions nitrogen and phosphorus use efficiency

nitrogen use efficiency in different environmental conditions under the influence of climate change and various aspects of improving phosphorus use efficiency The book provides guidance for researchers engaged in plant science studies particularly Plant Crop Physiology Agronomy Plant Breeding and Molecular Breeding In addition it provides valuable insights for policymakers administrators plant based companies and agribusiness companies Explores climatic effects on agriculture through radiation water nitrogen and phosphorus use efficiency Guides the planning and research of and recommendations for fertilizer application for different crops under various climatic conditions Discusses efficiency improvements for plant and molecular breeders seeking to maximize resource use

Plants and Microclimate Hamlyn G. Jones, 2014 An authoritative introduction to plant responses and adaptation to the aerial environment ideal for advanced undergraduate and graduate students

Handbook of Research on Visual Computing and Emerging Geometrical Design Tools Amoroso, Giuseppe, 2016-04-11 Visual computing and descriptive geometry are multidisciplinary fields addressing the handling of images 3D models and other computer graphics These ideas are experiencing a revival due to emergent technologies and applications available to developers Based in traditional forms of design and architecture these fields are currently experiencing a bounty of new research based on old principles The Handbook of Research on Visual Computing and Emerging Geometrical Design Tools seeks to add to this knowledge base by considering these technologies from a designer's perspective rather than reiterating the principles of computer science It combines aspects of geometry and representation with emerging tools for CAD generation and visualization while addressing the digital heritage of such fields This book is an invaluable resource for developers students of both graphic and computer generated design researchers and designers

Recent Trends in Wave Mechanics and Vibrations S. Chakraverty, Paritosh Biswas, 2019-11-12 This book consists of select proceedings of the National Conference on Wave Mechanics and Vibrations WMVC 2018 It covers recent developments and cutting edge methods in wave mechanics and vibrations applied to a wide range of engineering problems The book presents analytical and computational studies in structural mechanics seismology and earthquake engineering mechanical engineering aeronautics robotics and nuclear engineering among others This book can be useful for students researchers and professionals interested in the wide ranging applications of wave mechanics and vibrations

Trace Gas Emissions by Plants, 2012-12-02 Many trace gases are exchanged between the atmosphere and the biosphere Although much research has been published on the photosynthetic exchanges of carbon dioxide oxygen and water vapor this book focuses on the importance of biogenic trace gases on atmosphere chemistry and ecosystem stability Included are methane and its effect on the radiative properties of the atmosphere hydrocarbons isoprene and monoterpenes and their role in the production of ozone and carbon monoxide Also covered are sulfur and nitrogen gases both of which can lead to ecosystem acidification The biochemistry and physiology of production of these and other gases are investigated Plant physiologists ecologists and atmospheric chemists and modelers will benefit from this book

Hydrological Systems Modeling -

Volume II Lev S. Kuchment ,Vijay P. Singh,2009-06-18 Hydrological Systems Modeling is a component of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias This 2 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It carries state of the art knowledge in the fields of Hydrological Systems Modeling and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

Forest Dynamics Henk Koop,2012-12-06 No matter what forests are used for forest managers have to deal with interactions between individual trees and between trees and other forest organisms To understand these interactions long term monitoring of spontaneous forest development is necessary A complete monitoring system has been developed including a computer package for analysis of long term observation of forest dynamics The system s name SILVI STAR is an acronym of SILVIgenesis and Single tree Three dimensional Architecture A method of nested plot data collection on forest architecture and plant species composition has been developed out for monitoring purposes

Plant-animal interactions in Mediterranean-type ecosystems Margarita Arianoutsou-Faraggitaki,R.H. Groves,2012-12-06 The Sixth International Conference on Mediterranean Climate ecosystems was held at Maleme Crete Greece from September 23 to September 27 1991 This conference had as its theme Plant Animal Interactions in Mediterranean type Ecosystems Most of the papers presented to that meeting have already been published see Thanos C A ed 1992 Proceedings of the VI International Conference on Mediterranean Climate Ecosystems Athens 389 pp These 57 papers were all necessarily short But the theme of plant animal interactions was considered by the Organizing Committee to be so important to a fundamental understanding of the ecology of Mediterranean climate ecosystems and to an enhanced management of those systems that various international research scientists were invited to prepare longer contributions on major aspects of the overall theme The Book that follows represents the result of those invitations All five regions of Mediterranean climate are represented Chile California southern Australia and the Cape Province of South Africa as well as the Mediterranean Basin itself

Range and Richness of Vascular Land Plants Peter S. Eagleson,2013-05-07 Published by the American Geophysical Union as part of the Special Publications Series This is a research monograph and not a textbook Here I demonstrate analytically how the observed opposing latitudinal gradients in the average range and richness of local vascular land plant species are outside the moist tropical zone at least driven primarily by the local temporal and spatial variability of shortwave radiative flux at the canopy top The term richness as used here means the local number of different vascular land plant species unlimited by the size of the area sampled The hypotheses are simplistic but are nevertheless convincingly accurate in extratropical latitudes when tested against observations over the continental land surfaces of the Northern Hemisphere the only areas tested here

Plants and Climate Change Jelte Rozema,Rien Aerts,Hans Cornelissen,2007-01-19 Plants and Climate Change focuses

on how climate affects or affected the biosphere and vice versa both in the present and past The chapters describe how ecosystems from the Antarctic and Arctic and from other latitudes respond to global climate change The papers highlight plant responses to atmospheric CO₂ increase to global warming and to increased ultraviolet B radiation as a result of stratospheric ozone depletion Depending on how and how well plant responses to increased temperature atmospheric CO₂ and ultraviolet B have been preserved in the sub fossil record past climates and past atmospheric chemistry may be reconstructed Pollen and tree ring data reflect plant species composition and variation of temperature and precipitation over long or shorter time intervals In addition to well preserved morphological and chemical plant properties new analytical techniques such as stable isotopes are becoming increasingly important in this respect The development and validation of such biotic climate and environment proxies build a bridge between biological and geological research This highlights that plant climate change research is becoming a multi and transdisciplinary field of relevant research

Remote Sensing of Leaf Area Index (LAI) and Other Vegetation Parameters Francisco Javier García-Haro, Hongliang Fang, Juan M. Lopez Sanchez, 2019-09-16 Monitoring of vegetation structure and functioning is critical to modeling terrestrial ecosystems and energy cycles In particular leaf area index LAI is an important structural property of vegetation used in many land surface vegetation climate and crop production models Canopy structure LAI fCover plant height and biomass and biochemical parameters leaf pigmentation and water content directly influence the radiative transfer process of sunlight in vegetation determining the amount of radiation measured by passive sensors in the visible and infrared portions of the electromagnetic spectrum Optical remote sensing RS methods build relationships exploiting in situ measurements and or as outputs of physical canopy radiative transfer models The increased availability of passive radar and LiDAR RS data has fostered their use in many applications for the analysis of land surface properties and processes thanks also to their insensitivity to weather conditions and the capability to exploit rich structural and textural information Data fusion and multi sensor integration techniques are pressing topics to fully exploit the information conveyed by both optical and microwave bands

Plant Canopies Society for Experimental Biology (Great Britain). Meeting, 1989 This volume is a synthesis of current knowledge about the growth development and functioning of plant canopies

Ecohydrology Peter S. Eagleson, 2005-02-17 This volume is devoted to the derivation and application of simplified bioclimatic boundary conditions at vegetated land surfaces using natural selection of vegetation characteristics driven by productivity maximization It investigates the internal control of forest growth by the vertical fluxes of light CO₂ water vapor and heat within the canopy as well as the external control offered by the balances of thermal energy and water Through these means it seeks to determine how the physical characteristics and productivity of forest communities are related to the climates and soils in which they are found Ecohydrology bridges the fields of hydrology and ecology and proposes new unifying principles derived from the concept of natural selection It also has potential application in determining the response of vegetation to slow variations in climate and

will provide fascinating reading for graduate level students and research scientists working in ecohydrology hydroclimatology forest ecology and surface water hydrology

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