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Titolo	Correlation and dependence [[electronic resource] /] / Dominique Drouet Mari, Samuel Kotz
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Altri autori (Persone)	KotzSamuel
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Soggetti	Correlation (Statistics) Dependence (Statistics) Electronic books.
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references (p. 203-215) and index.
Nota di contenuto	Contents ; Preface ; Chapter 1 Notations and Definitions ; 1.1 Notations ; 1.2 Definitions ; Chapter 2 Correlation and Dependence : An Introspection ; 2.1 Independence ; 2.2 Zero Correlation Versus Dependence ; 2.3 Some Geometrical Examples ; 2.4 Some Further Historical Remarks 2.5 A Brief Tour of Early Applications and Misinterpretations Chapter 3 Concepts of Dependence and Stochastic Ordering ; 3.1 Introduction ; 3.2 Concepts of Positive Dependence ; 3.3 Negative Dependence for More than Two Variables ; 3.4 Setwise Dependence ; 3.5 Other Approaches 3.6 Positive Dependence Orderings 3.7 Bayesian Approach to Stochastic Dependence ; Chapter 4 Copulas ; 4.1 Introduction ; 4.2 Definition and Some Properties ; 4.3 The Frechet Bounds ; 4.4 Examples ; 4.5 Construction of a Copula ; 4.6 Archimedean

Copulas ; 4.7 Archimax Copulas
 4.8 Copulas with Discontinuity Constraints
 4.9 Copulas with More than Two Variables
 ; 4.10 Simulation Procedures ; Chapter 5 Farlie-
 Gumbel-Morgenstern Models of Dependence
 ; 5.1 Introduction ; 5.2 Initial Definition
 ; 5.3 Regression and Correlation ; 5.4 Iterations
 5.5 Dependence Properties 5.6 A Class of n-variate
 FGM Distributions ; 5.7 Further
 Extensions ; 5.8 FGM Sequences ;
 Chapter 6 Global Versus Local Dependence between Random Variables
 ; 6.1 Introduction ; 6.2 Global Measures of Dependence
 ; 6.3 Local Indices of Dependence
 6.4 Non-parametric Estimation of Local Indices

Sommario/riassunto

The concept of dependence permeates the Earth and its inhabitants in a most profound manner. Examples of interdependent meteorological phenomena in nature and interdependence in the medical, social, and political aspects of our existence, not to mention the economic structures, are too numerous to be cited individually. Moreover, the dependence is obviously not deterministic but of a stochastic nature. However, it seems that none of the departments of statistics, engineering, economics and mathematics in the academic institutions throughout the world offer courses dealing with <i>dependence c

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Descrizione fisica	1 online resource (238 p.)
Collana	Biological sciences series (Oxford, England)
Altri autori (Persone)	MorisonJames I. L MorecroftMichael D
Disciplina	571.82 581.42632.1 632/.1
Soggetti	Climatic changes Crops and climate Growth (Plants)
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Nota di contenuto	Plant Growth and Climate Change; Contents; List of Contributors; Preface; 1 Recent and future climate change and their implications for plant growth; 1.1 Introduction; 1.2 The climate system; 1.3 Mechanisms of anthropogenic climate change; 1.4 Recent climate changes; 1.5 Future changes in anthropogenic forcing of climate; 1.5.1 Future global climate scenarios; 1.5.2 Future regional climate scenarios; 1.6 Concluding comments; References; 2 Plant responses to rising atmospheric carbon dioxide; 2.1 Introduction; 2.1.1 Overview of plant biology; 2.1.2 A word about methodology 2.2 Gene expression and carbon dioxide2.3 Cellular processes: photosynthetic carbon reduction (PCR) and carbon dioxide; 2.3.1 C3 photosynthesis; 2.3.2 C4 photosynthesis; 2.3.3 Crassulacean acid metabolism photosynthesis; 2.3.4 Photosynthetic acclimation to rising CO2; 2.4 Cellular processes: photosynthetic carbon oxidation (PCO) and

carbon dioxide; 2.5 Single leaf response to CO₂; 2.5.1 Leaf carbon dynamics; 2.5.2 Inhibition of dark respiration; 2.5.3 Leaf chemistry; 2.5.4 Stomatal response and CO₂; 2.6 Whole plant responses to rising CO₂; 2.6.1 Plant development; 2.6.2 Carbon dynamics; 2.6.3 Stomatal regulation and water use; 2.7 Plant-to-plant interactions; 2.7.1 Plant competition: managed systems; 2.7.2 Plant competition: unmanaged systems; 2.7.3 How does CO₂ alter plant-to-plant interactions?; 2.8 Plant communities and ecosystem responses to CO₂; 2.8.1 Managed plant systems; 2.8.2 Water use in managed systems; 2.8.3 Unmanaged plant systems; 2.8.4 Water use in unmanaged plant systems; 2.8.5 Other trophic levels; 2.9 Global and evolutionary scales; 2.9.1 Rising CO₂ as a selection factor; 2.9.2 Global impacts; 2.10 Uncertainties and limitations; References

3 Significance of temperature in plant life; 3.1 Two paradoxes; 3.1.1 Paradox 1; 3.1.2 Paradox 2; 3.2 Baseline responses of plant metabolism to temperature; 3.2.1 Photosynthesis; 3.2.2 Dark respiration; 3.3 Thermal acclimation of metabolism; 3.4 Growth response to temperature; 3.5 Temperature extremes and temperature thresholds; 3.6 The temperatures experienced by plants; 3.7 Temperature and plant development; 3.8 The challenge of testing plant responses to temperature; References; 4 Temperature and plant development: phenology and seasonality; 4.1 The origins of phenology; 4.2 Recent changes in phenology; 4.3 Attribution of temporal changes; 4.3.1 Detection of phenological change; 4.3.2 Attribution of year-to-year changes in phenology to temperature and other factors; 4.3.3 Confounding factors; 4.4 Evidence from continuous phenological measures; 4.5 Possible consequences; References; 5 Responses of plant growth and functioning to changes in water supply in a changing climate; 5.1 Introduction: a changing climate and its effects on plant growth and functioning; 5.2 Growth of plants in drying soil; 5.2.1 Hydraulic regulation of growth; 5.3 Water relations of plants in drying soil

Sommario/riassunto

Evidence grows daily of the changing climate and its impact on plants and animals. Plant function is inextricably linked to climate and atmospheric carbon dioxide concentration. On the shortest and smallest scales, the climate affects the plant's immediate environment and so directly influences physiological processes. At larger scales, the climate influences species distribution and community composition, as well as the viability of different crops in managed ecosystems. Plant growth also influences the local, regional and global climate, through the exchanges of energy and gases between the
