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Attenuation of Solar Radiation in the AtmosphereSolar Radiation at the Ground; Terrestrial Radiation; Net Radiation; Problems; Chapter 6 Microclimatology of Radiation (i) Absorption, Reflection, and Transmission; Radiative Properties of Natural Materials; Problems; Chapter 7 Microclimatology of Radiation (ii) Radiation Interception by Solid Structures; Geometric Principles; Diffuse Radiation; Problems; Chapter 8 Microclimatology of Radiation (iii) Interception by Plants and Animals; Interception of Radiation by Plant Canopies; Interception of Radiation by Animal Coats; Net Radiation; Problems
Chapter 9 Momentum TransferBoundary Layers; Momentum Transfer to Natural Surfaces; Lodging and Windthrow; Problems; Chapter 10 Heat Transfer; Convection; Measurements of Convection; Conduction; Insulation; Problems; Chapter 11 Mass Transfer (Gases and Water Vapor); Non-Dimensional Groups; Measurements of Mass Transfer; Ventilation; Mass Transfer through Pores; Coats and Clothing; Problems; Chapter 12 Mass Transfer (Particles); Steady Motion; Non-Steady Motion; Particle Deposition; Problems; Chapter 13 Steady State Heat Balance (i) Water Surfaces, Soil, and Vegetation; Heat Balance Equation
Heat Balance of ThermometersHeat Balance of Surfaces; Developments from the Penman Equation; Problems; Chapter 14 Steady State Heat Balance (ii) Animals; Heat Balance Components; The Thermo-Neutral Diagram; Specification of the Environment; Case Studies; Sheep; Problems; Chapter 15 Transient Heat Balance; Time Constant; General Cases; Heat Flow in Soil; Problems; Chapter 16 Micrometeorology (i) Turbulent Transfer, Profiles, and Fluxes; Turbulent Transfer; Flux-Gradient Methods; Methods for Indirect Measurements of Flux above Canopies; Relative Merits of Methods of Flux Measurement
Turbulent Transfer in CanopiesDensity Corrections to Flux Measurements; Problems; Chapter 17 Micrometeorology (ii) Interpretation of Measurements; Resistance Analogues; Case Studies; Transport within Canopies; Problems; References; Bibliography; Appendix A; Solutions to Selected Problems; Index; A; B; C; D; E; F; G; H; I; K; L; M; N; O; P; Q; R; S; T; U; V; W; Z

Sommario/riassunto

Environmental Physics concerns the description and analysis of physical processes that establish the conditions in which all species of life survive and reproduce. The subject involves a synthesis of mathematical relations that describe the physical nature of the environment and the many biological responses that environments evoke. Environmental Physics provides a basis for understanding the complex responses of plants and animals to environmental change. International concern with climate change has made both politicans and the general public much more aware of the impac