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| Nota di contenuto | Front Cover; Water Relations of Plants; Copyright Page; Table of Contents; Preface; Chapter 1. Water: Its Functions and Properties; Introduction; Uses of Water in Plants; Properties of Water; Properties of Aqueous Solutions; Summary; Supplementary Reading; Chapter 2. Cell Water Relations; Introduction; Cell Structure; Distribution of Water in Cells; Cell Membranes; Movement of Water and Solutes in Plants; Cell Water Terminology; Components of the Water Potential Equation; Summary; Supplementary Reading; Chapter 3. Soil and Water; Introduction; Important Characteristics of Soil How Water Occurs in Soil; Movement of Water in Soil; Summary; Supplementary Reading; Chapter 4. Measurement and Control of Soil Water; Introduction; Field Measurements of Soil Water; Laboratory Measurements of Soil Water; Experimental Control of Soil Water Content; Irrigation; Summary; Supplementary Reading; Chapter 5. Root Growth and Functions; Introduction; Functions of Roots; Root Growth; The Absorbing Zone of Roots; Summary; Supplementary Reading; Chapter 6. Development of Root Systems; Introduction; Root Systems; Internal Factors Affecting the Development of Root Systems Environmental Factors Affecting Root Growth; Summary; Supplementary Reading; Chapter 7. Water Movement in the Soil-Plant-Atmosphere Continuum; Introduction; The Soil-Plant-Atmosphere Continuum Concept; Driving Forces and Resistances; Water Movement through Plants; Varying Resistances in Roots; Summary; Supplementary Reading; Chapter 8. The Absorption of Water and Root and Stem Pressures; |

Introduction; Absorption Mechanisms; Root and Stem Pressures; Summary; Supplementary Reading; Chapter 9. Factors Affecting the Absorption of Water; Introduction; Efficiency of Root Systems as Absorbing Surfaces
Environmental Factors Affecting Water Absorption; Summary; Supplementary Reading; Chapter 10. The Conducting System and the Ascent of Sap; Introduction; The Conducting System; The Ascent of Sap; Conduction in Leaves; Summary; Supplementary Reading; Chapter 11. Transpiration; Introduction; The Process of Transpiration; Plant Factors Affecting Transpiration; Interaction of Factors Affecting Transpiration; Measurement of Transpiration; Evaporation from Stands of Plants; Summary; Supplementary Reading; Chapter 12. Water Deficits and Plant Growth; Introduction
Cause and Development of Water Deficits; Effects of Water Deficits; Measurement of Plant Water Stress; Summary; Supplementary Reading; Chapter 13. Drought Tolerance and Water Use Efficiency; Introduction; Drought; Water Use Efficiency; Summary; Supplementary Reading; Bibliography; Index
