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Altri autori (Persone)	JamesRichard K. <1942-> MoultonPatrice <1961->
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## Sommarioriassunto

"Recent tragedies on college and university campuses have highlighted the need for more comprehensive crisis management in higher education. Written by seasoned crisis intervention and prevention specialists, This is NOT a Fire Drill is a practical guide to creating an effective college campus crisis management program. From weapons on campus to hurricanes, the authors address various crises and provide helpful resources to ensure leaders can take appropriate action to protect students, the college, and the environment. University administrators, faculty, and staff are provided with thought-provoking case examples and activities for reflection and practice"--

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## Autore

Cooper David J. &lt;1946-&gt;

## Titolo

Soil water measurement : a practical handbook / / J. David Cooper ; with contribution from Richard H. Cuenca

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## Nota di contenuto

Title Page; Table of Contents; Preface; Part I: Introduction; 1 Soil Water in Context; 1.1 What Is Soil Water?; 2 How Does Water in Soil Interact with the Soil Matrix, Air, Roots, Gravity and Other Substances Present?; 2.1 Static Properties of Soil Water; 2.2 Dynamic Properties of Soil Water; 2.3 Preferential Flow; 3 What Do We Need to Measure?; 3.1 Diffusivity; 3.2 Matric Flux Potential; 3.3 Sorptivity; 4 Spatial Variability; 4.1 Representative Elementary Volume; 4.2 Deterministic versus Random Variation; 4.3 Geostatistics; Part II: Water Content; 5 Definitions

5.1 Basis for Expressing Water Content; 5.2 Standard Definition of Soil Water; 5.3 Measurement of Water Content; 6 Gravimetric Method; 6.1 Equipment Required; 6.2 Procedures; 6.3 Likely Problems with Gravimetric Sampling; 6.4 Direct Measurement of Bulk Density; 6.5 Indirect Measurement of Bulk Density: Gamma Ray Probes; 6.6 Conclusion; Appendix 6.A Scintillation Detectors; 7 Neutron Scattering; 7.1 Principles of the Method; 7.2 Types of Neutron Probe; 7.3 Access Tube Installation; 7.4 Accommodating Farming Operations; 7.5 Accuracy and Precision of Measurement; 7.6 Measurements in Access Tubes; 7.7 Calibration; 7.8 Measurements near the Surface; 7.9 Processing and Use of Data; 7.10 Cosmic-Ray Soil Moisture Observing System; 7.11 Radiological Safety; 8 Dielectric Methods; 8.1 Dielectrics - Basic Principles; 8.2 Factors Affecting Permittivity of Water; 8.3 Fundamentals of Electrical Circuits; 8.4 The Relationship between Soil Water Content and Permittivity; 8.5 Transmission Lines; 8.6 Practical Realisation of a Transmission Line System - Time Domain Reflectometry; 8.7 Capacitance Methods; 8.8 Theta and Profile Probes; 8.9 ECH2O Probe; 8.10 Hydra Probe; 8.11 Installation of Access Tubes for Dielectric Probes; 8.12 Permanent Installation of Rod-Type Probes; 8.13 Field Monitoring; 8.14 Soil Calibration; 8.15 Ground-Penetrating Radar; 8.16 Dielectric Methods - Conclusion; 9 Dual-Probe Heat-Pulse Sensors; 9.1 Introduction; 9.2 Principles of Operation; 10 Electrical Resistivity Imaging; 10.1 Introduction; 10.2 Theoretical Basis of ERI; 10.3 Measurement Methods; 10.4 Measurements in Practice; 10.5 Conclusion; Part III: Water Potential; 11 Water Potential Measurement; 11.1 Introduction; 11.2 Types of Sensor; 11.3 Sensitivity; 11.4 Response Time; 12 Tensiometers; 12.1 Components of a Tensiometer; 12.2 The Porous Barrier; 12.3 The Body Tube; 12.4 The Air Trap; 12.5 The Pressure Sensor; 12.6 Construction of Tensiometers; 12.7 Tensiometer Installation; 12.8 Time before Tensiometers can be Read Reliably after Filling; 12.9 Reading of Tensiometers; 12.10 Tensiometer Maintenance; 12.11 Quality Control of Tensiometer Readings; 12.12 Deep Water Potential Measurements; Appendix 12.A Pressure Transducers; Appendix 12.B De-aired Water; 13 Indirect Methods of Water Potential Measurement; 13.1 Introduction; 13.2 Resistance Block; 13.3 Equitensiometer

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