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Descrizione fisica	1 online resource (636 p.)
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Soggetti	Soils - Testing Soil moisture - Measurement Soils - Plastic properties Zone of aeration
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Contents; Preface; Acknowledgements; About the author; Scales, plotting conventions for graphs and reference lists; List of abbreviations and mathematical symbols; 1. HISTORICAL REVIEW OF THE DEVELOPMENT OF UNSATURATED SOIL MECHANICS; 2. DETERMINING EFFECTIVE STRESSES IN UNSATURATED SOILS; 3. MEASURING AND CONTROLLING SUCTION; 4. INTERACTIONS BETWEEN THE ATMOSPHERE AND THE EARTH'S SURFACE: CONSERVATIVE INTERACTIONS - INFILTRATION, EVAPORATION AND WATER STORAGE; 5. INTERACTIONS BETWEEN THE ATMOSPHERE AND THE EARTH'S SURFACE: DESTRUCTIVE INTERACTIONS - WATER AND WIND EROSION, PIPING EROSION 6. THE MECHANICS OF COMPACTION 7. STEADY AND UNSTEADY FLOW OF WATER AND AIR THROUGH SOILS - PERMEABILITY OF UNSATURATED AND SATURATED SOILS; 8. COMPRESSIBILITY, SETTLEMENT AND HEAVE OF UNSATURATED SOILS; 9. MEASUREMENTS OF THE STRENGTH OF UNSATURATED SOIL
Sommario/riassunto	Soil will, either seasonally or occasionally, pass from the unsaturated to the saturated state and even from unsaturation to dryness. The theory

of unsaturated soils is dealt with, including its application to natural undisturbed soils and compacted soils. Application of the theory to soil-like materials such as mine waste and municipal solid waste is also covered. Application of the theory to practice is illustrated by a number of detailed case histories. Unsaturated soil mechanics principles can also successfully and usefully be applied in related fields such as the bulk storage of particulate materials, underground mine support, solution mining and concrete structures--
