Record Nr.	UNINA9910583049603321
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Titolo	Soil mechanics : calculations, principles, and methods / / Victor N. Kaliakin
Pubbl/distr/stampa	Butterworth-Heinemann
ISBN	0-12-804491-8
Disciplina	624.1/5136
Soggetti	Soil mechanics Soil physics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Example problems involving phase relations for soils Example problems related to soil identification and classification Example problems related to compaction of soils Stresses, strains and elastic response of soils Example problems involving in situ stresses under hydrostatic conditions Example problems involving one-dimensional fluid flow in soils Example problems involving two-dimensional fluid flow in soils Example problems related to compressibility and settlement of soils Example problems related to time rate of consolidation Example problems related to shear strength of soils.
Sommario/riassunto	This book provides expert insights into the nature of soil mechanics through the use of calculation and problem-solving techniques. This informed reference begins with basic principles and calculations, illustrating physical meanings of the unit weight of soil, specific gravity, water content, void ratio, porosity, saturation, and their typical values. This is followed by calculations that illustrate the need for soil identification, classification, and ways to obtain soil particle size distribution, including sizes smaller than 0.075mm, performance, and the use of liquid and plastic limit tests. The book goes on to provide expert coverage regarding the use of soil identification and classification systems (both Unified Soil Classification System and AASHTO), and also includes applications concerning soil compaction and field applications, hydraulic conductivity and seepage, soil compressibility and field application, and shear strength and field

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