

# Series consolidation of organic soils.

University of Salford - Soil consolidation and similar topics



Description: -

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Tags: #Consolidation #of #Soil: #Meaning #and #Mechanics, #Types, #Terzaghi's #Theory #and #Determination

## Soil consolidation

In an oedometer test, a series of known pressures are applied to a thin disc of soil sample, and the change of sample thickness with time is recorded. Between two isochrones the change in thickness in time  $dt$ , i. One difference is that high-strength gypsum cement is poured around the specimen in the holding rings to encapsulate it.

**Soils & Geology in Construction from Construction** [vip.stumagz.com](http://vip.stumagz.com)

More than being a technical document it tackles issues in a more conversational style and is therefore a fairly bulky document. Rate of Settlement: Rate of settlement is the time in which some percentage of total settlement occurs. Ideally, the hydraulic conductivity should be measured using hydraulic gradients similar to those anticipated in the field.

## Limits on organic matter for soil

Consolidation: ADVERTISEMENTS: Consolidation is the process in which soil particles are packed more closely together over a period of time under the application of continued pressure i. This reduction in effective stress may reduce the measured shear strength and increase the measured compressibility of the laboratory sample compared to the in situ condition. Also associated with the addition of cement is an increase in the hydraulic conductivity, an increase in the coefficient of consolidation, and a reduction in the creep coefficient at any given stress level.

**and Improvement of Organic by Joonho Hwang, Aaron Humphrey et al.**

Heave problem arises when soil expands due to reduction in confining pressure or increase in water content.

## Chapter 35 Organics/peat soils

The compression of the specimen is measured by means of dial gauge fitted at the loading cap. Journal Geotechnical and Geological Engineering — Springer Journals Published: Apr 5, 2011 APA Kaniraj, S. It is mainly due to non-uniformities in the soil, differences in the structural loads etc.

## Consolidation model for organic soils

Example results from DS test on rock with discontinuities 8. Determination of Coefficient of Consolidation: By applying a series of load increments to the soil sample and recording settlements at selected time intervals, the consolidation test proceeds.

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