Soil Mechanics Foundation Engineering Notes

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Short Notes for Soil Mechanics & Foundation Engineering Properties of Soils Water content □ W 100 S W w W = W W = Weight of power W S = Weight of solids Void ratio □ v s V e V = V v = Volume of voids V = Total volume of soil Degree of Saturation □ w 100 v V S V = V w = Volume of water V v = Volume of voids 0 □ S□ 100 for perfectly dry soil : S = O for Fully saturated soil : S = 100% Air Content □ a 1 c v V as V = = □ V a = Volume of air S r + a c

Short Notes for Soil Mechanics & Foundation Engineering

As the name Soil Mechanics implies the subject is concerned with the deformation and strength of bodies of soil. It deals with the mechanical properties of the soil materials and with the application of the knowledge of these properties to engineering problems. In particular it is concerned with the interaction of structures with their foundation material. This includes both conventional structures and also structures such as earth dams, embankments and roads which are their-selves made of soil.

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1. Karl Terzaghi is the father of Soil Mechanics. His first book on Soil Mechanics is Earabaumechanics published in 1925 2. The process of formation of soild is termed as Pedologenesis 3. The soil is formed due to weathering of rocks, which may be carried out either physically or chemically.

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built on: foundations of buildings, bridges. built in: basements, culverts, tunnels. built with: embankments, roads, dams. supported: retaining walls. Soil Mechanics is a discipline of Civil Engineering involving the study of soil, its behaviour and application as an engineering material.

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This article on Soil Mechanics & Foundation Engineering has been written by Rohit Sachdeva (AIR 93 in GATE 2017 CE). He graduated from Delhi College of Engineering (now DTU) in 2012 (a gold medalist in his batch) in Civil Engineering branch. Then he appeared in Civil Engineering (CE) paper in GATE 2017 and secured an All India Rank (AIR) of 93.

Master Soil Mechanics & Foundation Engineering for GATE ...

In engineering terms, soil is generally softer, weaker and more weathered material overlying rock. All soils consist of solid particles assembled in a relatively loose packing. The voids between the particles may be filled completely with water (fully saturated soils) or may be partly filled with water and partly with air (partly saturated soils).

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