

Soil Mechanics Foundation Engineering Notes

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Basic Definition (Soil Mechanics) Hindi

Important Formula's of Soil Mechanics With Short Tricks

Soil Mechanics 101 - Phase Relations ~~[AD]~~ CLASSIFICATION OF SOIL (CE) EXPLAINED!!! PART 1/2 Basic Definitions Important Formulas For Geotechnical Engineering 1 #GeotechnicalEngineering | Soil Mechanics | Short Notes || By- Akash Pandey || soil mechanics lecture 1 in hindi | types of soil | [civil engineering RSMSSB](#) | [UKSSSC Geotechnical Engineering](#) || [Soil Mechanics](#) || [Foundation Engineering](#) ||

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Short Notes for Soil Mechanics & Foundation Engineering Properties of Soils Water content • $W = \frac{W_w}{W_s} \times 100$ • $W = \frac{W_w}{W_s} \times 100$ = Weight of water / Weight of solids • $V_v = \frac{V_v}{V} \times 100$ = Volume of voids / Total volume of soil Degree of Saturation • $S = \frac{V_w}{V_v} \times 100$ = Volume of water / Volume of voids • $S = \frac{V_w}{V_v} \times 100$ for perfectly dry soil : $S = 0$ for Fully saturated soil : $S = 100\%$ Air Content • $a = \frac{V_a}{V} \times 100$ = Volume of air / Total volume of soil

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

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soil is termed as Pedogenesis 3. The soil is formed due to weathering of rocks, which may be carried out either physically or chemically.

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LECTURE NOTES ON FOUNDATION ENGINEERING Department of Civil Engineering INSTITUTE OF AERONAUTICAL ENGINEERING Dundigal – 500 043, Hyderabad Murthy, V.N.S, “ Soil Mechanics and Foundation Engineering ” , UBS Publishers Distribution Ltd, New Delhi, 1999. 2. Gopal Ranjan and Rao, A.S.R. ” Basic and Applied Soil Mechanics ” , Wiley Eastern

LECTURE NOTES ON FOUNDATION ENGINEERING

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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Geo Technical Engineering and Foundation Engineering ...

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