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~~EXPLAINED!!! PART 1/2~~ Basic

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Soils Water content $\frac{W}{100} = \frac{W_w}{W_s}$

$W_w =$ Weight of water $W_s =$ Weight of

solids Void ratio $\frac{V_v}{V_s} = \frac{V_v}{V_s}$

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Notes of voids $V_v =$ Total volume of soil
Degree of Saturation $S = \frac{w}{100} \frac{V_w}{V_v} \frac{V_s}{V} = \frac{w}{100} \frac{V_w}{V_v} \frac{V_s}{V}$
 $w =$ Volume of water V_w $V_v =$ Volume of
voids $0 \leq S \leq 100$ for perfectly dry soil : $S = 0$
for Fully saturated soil : $S = 100\%$ Air
Content $a = \frac{V_a}{V_s} \frac{V_s}{V} = \frac{V_a}{V}$
Volume of air $S_r + a =$

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-

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Soil Mechanics Foundation Engineering
Notes

1. Karl Terzaghi is the father of Soil
Mechanics. His first book on Soil

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Notes is Earabaumechanics published in 1925 2. The process of formation of 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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Gopal Ranjan and Rao, A.S.R. □Basic and
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Notes: 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

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(partly saturated soils).

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