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~~EXPLAINED!!!~~

~~PART 1/2~~ *Basic
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Properties of Soils

Water content • $w = \frac{W_w}{W_s} \times 100$

$W =$ Weight of

power $W_s =$

Weight of solids

Void ratio • $e = \frac{V_v}{V_s}$

$V =$ Volume

of voids $V =$ Total

volume of soil

Degree of

Saturation • $S_r = \frac{V_w}{V_v} \times 100$

$v = \frac{V_w}{V} = \frac{w}{S_r} \times 100$

$w = \frac{V_w}{V_s} \times 100$

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Volume of water V_w

$v =$ Volume of voids $0 \leq S \leq 100$

for perfectly dry

soil : $S = 0$ for

Fully saturated soil

: $S = 100\%$ Air

Content • $a = \frac{V_w}{V_c}$

as $V_w = - V_a =$

Volume of air $S_r +$

a_c

Short Notes for Soil Mechanics &

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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

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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,

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embankments and
roads which are
their-selves made
of soil.

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Engineering Soil Mechanics Foundation Engineering Notes

1. Karl Terzaghi is the father of Soil Mechanics. His first book on Soil Mechanics is Earabaumechanics published in 1925
2. The process of

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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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Rao, A.S.R. ”Basic
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built on:

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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

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of soil, its
behaviour and
application as an
engineering
material.

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This article on Soil
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Engineering has
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Rohit Sachdeva
(AIR 93 in GATE
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DTU) in 2012 (a
gold medalist in his
batch) in Civil
Engineering
branch. Then he
appeared in Civil
Engineering (CE)
paper in GATE

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2017 and secured
an All India Rank
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In engineering
terms, soil is
generally softer,
weaker and more
weathered material

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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).

Engineering

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engineer must
have: Primary duty
of a foundation
engineer is safety
and economy
Enough knowledge
of scientific

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principles It comes
by taking
specialized courses
e.g. Geology, Soil
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Foundation
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Engineering etc.
Experience and
courage to take
engineering
judgments It comes
by working with

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seniors, attending seminars and workshops etc.

Requirements of a foundation Safety

The foundation must be stable and safe in the first place.

Geo Technical Engineering and Foundation Engineering ...

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