

GEOTECHNICAL

Index and Classification Properties of Soils

Unit weight : $\gamma = \frac{W}{V}$
 Dry unit weight : $\gamma_d = \frac{G_s \gamma_w}{1+e}$
 Moist unit weight : $\gamma = \gamma_{dry} (1 + \omega)$
 Saturated unit weight : $\gamma_{sat} = \frac{(G_s + e) \gamma_w}{1+e}$

Zero air void unit weight:

$$\gamma_{zav} = \frac{G_s \gamma_w}{1+e}$$

Moisture content (water content)

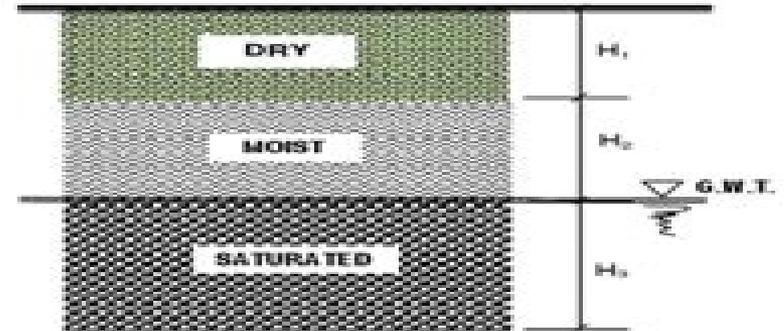
$$\omega = \frac{W_w}{W_s}$$

Degree of saturation : $s = \frac{\omega G_s}{e}$

Porosity : $n = \frac{e}{1+e}$

Air void ratio = $n (1 - s)$

- where :
- W = total weight
 - V = volume
 - G_s = specific gravity
 - e = void ratio
 - γ_w = unit weight of water
 = 9.81 kN/m³ (1 gram/cm³)



Phases of Soil

G.W.T. = ground water table

Geotechnical Engineering Formulas

Ruwan Abey Rajapakse



Geotechnical Engineering Formulas:

Unveiling the Magic of Words: A Overview of "**Geotechnical Engineering Formulas**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Geotechnical Engineering Formulas**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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