

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)

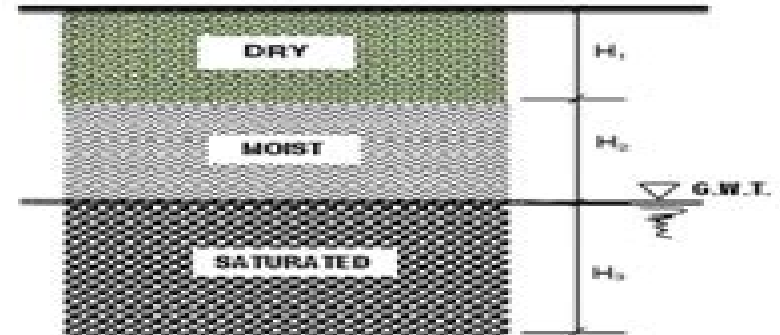
$$\omega = \frac{W_w}{W_s}$$

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

Lei Huang



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