

# 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)

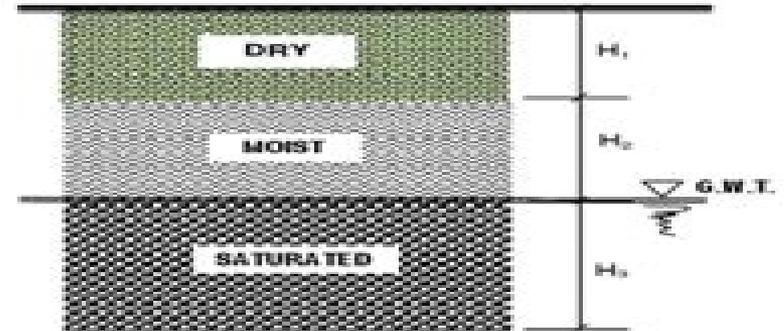
$$\omega = \frac{W_w}{W_s}$$

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
  - $\gamma_w$  = unit weight of water  
= 9.81 kN/m<sup>3</sup> ( 1 gram/cm<sup>3</sup> )



Phases of Soil

G.W.T. = ground water table

# Geotechnical Engineering Formulas

**R Sandford**



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