



Assignment 2

- 1- If the water content of a certain saturated soil sample is 22 percent and the specific gravity is 2.65, determine the saturated unit weight γ_{sat} , dry unit weight γ_d , porosity n and void ratio e .
- 2- A moist clay sample weighs 0.55 N. Its volume is 35 cm³. After drying in an oven for 24 hours, it weighs 0.50 N. Assuming specific gravity of clay as 2.65, compute the porosity n , degree of saturation S , original moist unit weight, and dry unit weight.
- 3- A moist soil sample has a volume of 484 cm³ in the natural state and a weight of 7.94N. The dry weight of the soil is 7.36 N and the relative density of the soil particles is 2.65. Determine the porosity, soil moisture content, volumetric moisture content, and degree of saturation.