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1000 Solved Problems -

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Islamic Azad University of Isfahan

Solved Problems in Soil

Mechanics Ahmed S. Al-Agha

2. (Mid 2013): If a soil sample has a dry unit weight of 19.5 KN/m^3 , moisture content of 8% and a specific

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gravity of solids particles is 2.67. Calculate the following: a) The void ratio. b) Moisture and saturated unit weight.

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writing of a proposal for engineering services to the final preparation of the "as built" report upon completion of the project.

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Engineering

INSTRUCTIONS. 2) Get you in the mindset of solving these problems on your own without any help, and figuring out alternative ways to solving problems. As they say, "there is more than one way

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to skin a cat.” Insensitive, yes, but the principle is true. The way you think might be different than the way I solved the problem and that’s no problem at all.

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Phase problems are very important in soil engineering. Below are given most commonly used formulas to solve problems related to weight volume calculations.

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The notations used in these formulas are as follows,
Weight Volume Relationship .
 γ_b = Bulk density of soil mass.
 γ_w = Density of water.
 γ_{sat} = Saturated density.
 γ_{sub} = Submerged density

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