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Symbols and Notations e = void ratio n = porosity w = moisture content, water content s = specific gravity of any

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substance γ_s = specific gravity of solids

Geotechnical Engineering | MATHalino

Here you will find a playlist of geotechnical problems to help you in studying for the PE exam; specifically, for the geotechnical portion. More PE problems will be added over time, but what I have should help to get you started preparing. I highly encourage you to pause the video at the beginning and solve the problem yourself and then resume play and watch how I did it. Doing that will get you in tune with working these out first before rushing to see a solved problem.

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Dry weight + container = 19.12 g
Container weight = 1.50 g
What is the PL of the soil?

SOLUTION: $W_w = 23.13 - 19.12 = 4.01$ g, $W_s = 19.12 - 1.50 = 17.62$ g
 $W = 4.01$ PL = $w \times 100 =$

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× 100 = 22.8 17.62 Ws

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Geotechnical Problem Solving—John C. Lommler
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For most of the problems of practical interest in engineering geology and geotechnical engineering, the integration of the governing system of partial differential equations is possible only by means of approximate numerical methods. As mentioned above, among the various numerical techniques adopted to solve geomechanical problems, two methods are commonly used in practice for geomaterials characterized by nonlinear and

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irreversible behavior.

Geotechnical Engineering - an overview | ScienceDirect Topics

Explanation of Solution. Express the formula for saturated unit weight (γ_{sat}) as follows.
$$\gamma_{sat} = (G_s + e)\gamma_w / (1 + e) \quad (1)$$
 Here, G_s is the specific gravity of the soil, e is the void ratio, and γ_w is the unit weight of the water. Rearrange equation (1) as shown below.
$$\gamma_{sat} = (G_s\gamma_w + e\gamma_w) / (1 + e) = G_s\gamma_w / (1 + e) + e\gamma_w / (1 + e)$$

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