

CIVIL ENGINEERING LICENSURE EXAMINATION

See #631 - Page 535
GEOTECHNICAL ENG'G.
By Besavilla (5th Edition)

See #4 - Page H-189
CE LICENSURE
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3. CE Board May 2009

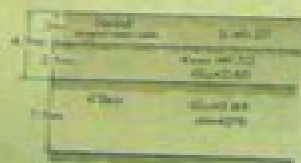
A rectangular channel 5.4 m wide by 1.2 m deep is lined with a smooth stone, well laid and has a hydraulic slope of 0.001 Using $n = 0.013$.

- What is the capacity of the channel in m^3/s .
- What savings in earth excavation could have been offered by using more favorable proportions but adhering to the same delivery and slope.
- What savings in lining per meter length by using more favorable proportions but adhering to the same delivery and slope?

See #9 - Page H-263
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4. CE Board May 2009

A thick layer of clay underlies a sand formation having a thickness of 4.5 m. The groundwater is located 2 m below the ground surface. Specific gravity of sand and clay is 2.65 with sand having an average void ratio of 0.52. The clay has a water content of 42% Degree of saturation above the water table is 0.37.



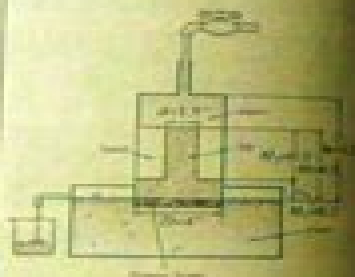
- Compute the unit weight of sand above the water table.
- Compute the total stress at a depth of 12 m below the ground surface.
- Compute the effective stress at a depth of 12 m below the ground surface.

See #174 - Page 177
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See #6 - Page H-195
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5. CE Board May 2009

From the following figure:



D	4	inches
H ₁	0.2	feet
K ₁	0.00471	ft/min
h	1.25	feet
d	1.5	inches
H ₂	0.3	feet
K ₂	0.000522	ft/min
H	0.5	feet

- Determine the total flow in ft^3/min .
- Find the equivalent value of K_f for both sand and silt.
- Determine the volume of water which percolate after 30 min in cm^3 .

CIVIL ENGINEERING LICENSURE EXAMINATION

See #524-D - Page 419-B
FLUID MECHANICS & HYD.
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6. CE Board May 2009

Water from a reservoir flowing through a non rigid 600 mm dia. pipe with a velocity of 2.5 m/s is completely stopped by a closure of a valve situated 200 m from the reservoir. Assume that the pressure increases at a uniform rate and that there is no damping of the pressure wave. The pipe has a thickness of 20 mm. Bulk modulus of water is 2.2×10^9 Pa and modulus of elasticity of steel is 1.4×10^{11} Pa.

See #593 - Page 806
FLUID MECHANICS & HYD.
By Besavilla (3rd Edition)

7. CE Board May 2009

From the figure shown, the soil has a unit weight of 18 kN/m^3 and undrained shear strength $c_u = 20 \text{ kN/m}^2$. The slope makes an angle of 60° with the horizontal. Assume a stability number $m = 0.185$.



- Compute the stability factor.
- Compute the maximum depth up to which the cut could be made.
- Compute the angle that the failure plane makes with the horizontal if $BC = 8 \text{ m}$.

See #30-D - Page 18-B
GEOTECHNICAL ENG'G.
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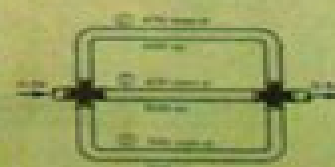
A dry soil is mixed with 13.5% by mass with water and compacted. Volume of wet soil is $1 \times 10^{-3} \text{ m}^3$ and has a mass of 1.6 kg. If the specific gravity of soil is 2.61.

- Compute the dry density.
- Compute the void ratio.
- Compute the degree of saturation.

See #444 - Page 338
FLUID MECHANICS & HYD.
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Pipelines 1, 2 and 3 are connected with parallel to each other with pipeline 1 having diam of 450 mm, 600 m long, pipeline 2, 400 mm, 600 m long and pipeline 3, 500 mm, 700 m long. The 3 pipes carries a combined discharge of $0.86 \text{ m}^3/s$. Assuming $f = 0.02$ for all pipes. Compute the following.



- Discharge of pipeline 1.
- Discharge of pipeline 2.
- Discharge of pipeline 3.

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