

Chapter 1

Water in soils

1.1 Steady-state fluid flow

Exercise 1

With reference to the permeameter in Figure 1.1, define the pore pressure in Y if 35% of the difference bw. the hydraulic head values dissipates in soil A (Note: lengths in cm). If the width of the permeameter is 100cm and the hydraulic conductivity K_B of soil B is $1 \times 10^{-2} \text{ cm/s}$, define also the discharge Q in m^3/s crossing the permeameter and the hydraulic conductivity K_A of soil A.

Solution

A permeameter, in the original setup of Darcy (see Figure 1.2), is a laboratory tool for the measurement of the hydraulic conductivity (o hydrogeological permeability) K of a given soil. It is a cylinder where a soil specimen is inserted; at the top and at the bottom there are two porous stones acting as filters (the water particles pass through, whereas the solid particles are kept in). The stones are connected to two reservoirs, whose levels are h_1 and h_2 (with respect to the base in the figure), maintained fixed by feeding the soil with water to produce a downward steady-state flow.

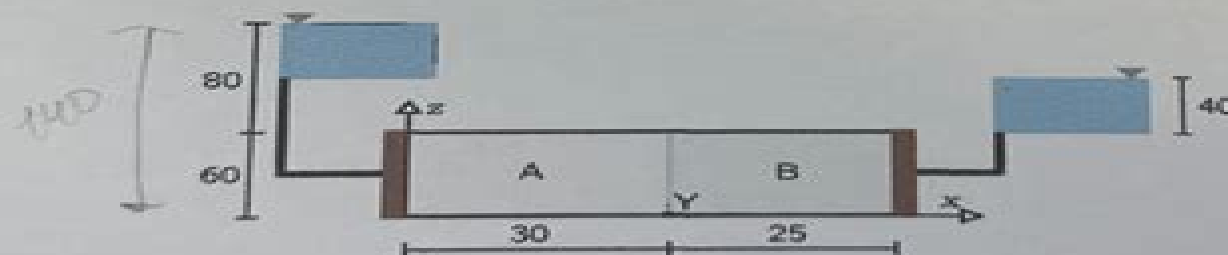


Figure 1.1. Scheme exercise #1

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SJ Ball



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