

PROBLEM 3.49

3.49 Determine (a) the difference in pressure and (b) the difference in piezometric head between points A and B. The elevations z_A and z_B are 10 m and 11 m, respectively, $\ell_1 = 1$ m, and the manometer deflection ℓ_2 is 50 cm.

$$\left(\frac{PA-PB}{S}\right)+\left(2A-2B\right)=Dh$$