

## Chapter 2 : Pressure and Head

- 2.1 a. From eqn. 2.4 :  $p_2 - p_1 = -\rho g(z_2 - z_1)$  and taking sea level as datum point 1, then :  
 $p_1 = 0 \text{ Nm}^{-2}$ ,  $\rho = 1002 \text{ kgm}^{-3}$ ,  $g = 9.81 \text{ ms}^{-2}$ ,  $z_2 = -2000 \text{ m}$  and  $z_1 = 0 \text{ m}$ .  
 $\Rightarrow p_2 - 0 = -1002 \times 9.81 \times (-2000 - 0)$ ,  $\therefore p_2 = 19.66 \text{ MNm}^{-2}$

- b. From eqn. 1.12, we know  $K = \rho \frac{dp}{dz}$  and from eqn. 2.17,  $p = \rho g z$  giving :

$\rho^2 g dz = K dp$ . If it is assumed that  $z$  is measured from the surface and is negative as depth increases, and that  $K$  is constant over small pressure ranges, we can then integrate

$$\int_{z_1}^{z_2} \frac{g}{K} dz = - \int_{p_1}^{p_2} \frac{1}{\rho^2} dp \Rightarrow \left[ \frac{gz}{K} \right]_{z_1}^{z_2} = \left[ \frac{1}{\rho} \right]_{p_1}^{p_2}$$

Since we know that  $z_1 = 0 \text{ m}$  then,  $\frac{gz}{K} = \frac{1}{\rho_2} - \frac{1}{\rho_1} \Rightarrow p_2 = \frac{K\rho_1}{\rho_1 g z + K}$

Integrating, NB  $\int \frac{1}{1+ax} dx = \frac{1}{a} \ln(1+ax)$

$$\Rightarrow p_2 - p_1 = -\rho g \frac{K}{\rho_1 g} \ln \left[ 1 + \frac{\rho_1 g z}{K} \right]_{z=0}^{z_2} \Rightarrow p_2 - p_1 = -K \ln \left( 1 + \frac{\rho_1 g z_2}{K} \right)$$

We know that  $p_1 = 0 \text{ Nm}^{-2}$ ,  $K = 2.05 \times 10^9 \text{ Nm}^{-2}$ ,  $\rho_1 = 1002 \text{ kgm}^{-3}$  and  $z_2 = -2000 \text{ m}$ , hence :

$$p_2 - 0 = -2.05 \times 10^9 \ln \left[ 1 + \frac{1002 \times 9.81 \times (-2000)}{2.05 \times 10^9} \right] \therefore p_2 = 19.75 \text{ MNm}^{-2}$$

- 2.2 a. From eqn. 2.4 :  $p_2 - p_1 = -\rho g(z_2 - z_1)$ . Taking the free surface as datum point 1 then,  $p_1 = 0 \text{ Nm}^{-2}$ ,  $\rho = 1000 \text{ kgm}^{-3}$ ,  $g = 9.81 \text{ ms}^{-2}$ ,  $z_2 = -12 \text{ m}$  and  $z_1 = 0 \text{ m}$ .  
 $\therefore p_2 = 117.72 \text{ kNm}^{-2}$
- b. From eqn. 2.16 :  $p = \rho g h + p_{\text{atm}}$ , ie Absolute pressure = Gauge pressure + Atmospheric pressure. Here, gauge pressure =  $117720 \text{ Nm}^{-2}$  and atmospheric pressure =  $101000 \text{ Nm}^{-2}$ ,  $\therefore$  **Absolute pressure =  $218.72 \text{ kNm}^{-2}$**

- 2.3 a. Specific gravity of oil =  $\frac{\rho_{\text{oil}}}{\rho_{\text{H}_2\text{O}}} \Rightarrow 0.8 = \frac{\rho_{\text{oil}}}{1000} \Rightarrow \rho_{\text{oil}} = 800 \text{ kgm}^{-3}$

From eqn. 2.17 :  $p = \rho g h$ , where  $p = 120 \times 10^3 \text{ Nm}^{-2}$ ,  $\rho = 800 \text{ kgm}^{-3}$ ,  $g = 9.81 \text{ ms}^{-2}$ ,  $\Rightarrow 120 \times 10^3 = 800 \times 9.81 \times h$ ,  $\therefore h = 15.3 \text{ m}$

- b. As before,  $p = 120 \times 10^3 \text{ Nm}^{-2}$  and  $g = 9.81 \text{ ms}^{-2}$ , however,  $\rho = 1000 \text{ kgm}^{-3}$ .

From eqn. 2.17 :  $p = \rho g h \Rightarrow 120 \times 10^3 = 1000 \times 9.81 \times h$

$\therefore h = 12.2 \text{ m}$

- 2.4 We know that  $1 \text{ bar} = 1 \times 10^5 \text{ Nm}^{-2}$ .

From eqn. 2.4 :  $p_2 - p_1 = -\rho g(z_2 - z_1)$ . Taking the free surface as datum point 1 :  
 $p_2 = 1 \times 10^5 \text{ Nm}^{-2}$ ,  $p_1 = 0 \text{ Nm}^{-2}$ ,  $\rho = 600 \text{ kgm}^{-3}$ ,  $g = 9.81 \text{ ms}^{-2}$  and  $z_1 = 0 \text{ m}$ .

# Douglas Fluid Mechanics Solution Manual

**Bruce R. Munson, Donald F.  
Young, Theodore H. Okiishi**



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