

## 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 :  $p = \rho gh + p_{\text{atm}}$ , 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 :  $p = \rho gh$ , 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 :  $p = \rho gh \Rightarrow 120 \times 10^3 = 1000 \times 9.81 \times h$   
 $\therefore h = 12.2 \text{ m}$

- 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

**Hussin A.Rothana**



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**Applied Mechanics Reviews**, 1986 *Basic Fluid Mechanics and Hydraulic Machines* Zueb Husain, Zulkifly Abdullah, Zainal Alimuddin, 2009-02-27 Following a concise overview of fluid mechanics informed by numerous engineering applications and examples this reference presents and analyzes major types of fluid machinery and the major classes of turbines as well as pump technology It offers professionals and students in hydraulic engineering with background concepts as well as practical coverage of modern turbine technologies fully explaining the advantages of both steam and gas turbines Description design and operational information for the Pelton Francis Propeller and Kaplan turbines are provided as are outlines of various types of power plants It provides solved examples chapter problems and a thorough case study Books and Pamphlets, Including Serials and Contributions to Periodicals Library of Congress. Copyright Office, 1968 The Finite Element Method in Heat Transfer and Fluid Dynamics, Third Edition J. N. Reddy, D.K. Gartling, 2010-04-06 As Computational Fluid Dynamics CFD and Computational Heat Transfer CHT evolve and become increasingly important in standard engineering design and analysis practice users require a solid understanding of mechanics and numerical methods to make optimal use of available software The Finite Element Method in Heat Transfer and Fluid Dynamics Third Edition illustrates what a user must know to ensure the optimal application of computational procedures particularly the Finite Element Method FEM to important problems associated with heat conduction incompressible viscous flows and convection heat transfer This book follows the tradition of the bestselling previous editions noted for their concise explanation and powerful presentation of useful methodology tailored for use in simulating CFD and CHT The authors update research developments while retaining the previous editions key material and popular style in regard to text organization equation numbering references and symbols This updated third edition features new or extended coverage of Coupled problems and parallel processing Mathematical preliminaries and low speed compressible flows Mode superposition methods and a more detailed account of radiation solution methods Variational multi scale methods VMM and least squares finite element models LSFEM Application of the finite element method to non isothermal flows Formulation of low speed compressible flows With its presentation of realistic applied examples of FEM in thermal and fluid design analysis this proven masterwork is an invaluable tool for mastering basic methodology competently

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