

- (b) (i) How does the velocity of fluid varies within the boundary layer zone? Define boundary layer thickness. Why is it called the nominal thickness of the boundary layer? (1 + 2 + 1 = 4)
- (ii) In a water pipeline there is an abrupt change in diameter from 140 mm to 250 mm. If the head lost due to separation when the flow is from the smaller to the larger pipe is 0.6 m greater than the head lost when the same flow is reversed, determine the flow rate. (9)

Table below shows the experimental values of C_c .

A_2/A_1	0.1	0.3	0.5	0.7	1.0
C_c	0.61	0.632	0.673	0.73	1.0

13. (a) (i) In order that the relationships determined for a model can be applied to a real life application (prototype) there has to be a physical similarity between the parameters involved in each one. Discuss in brief the different types of similarity. (6)
- (ii) State Reynolds model law. Obtain the scale ratio for velocity on the basis of Reynolds model law. (7)

Or

- (b) By dimensional analysis show that the torque T on a shaft of diameter d , revolving at a speed N in a fluid of viscosity μ and mass density ρ is given by the expression

$$T = (\rho d^5 N^2) \phi \left(\frac{\mu}{d^2 N} \right)$$

Use Buckingham's method. Hence show that power P is given by

$$P = (\rho d^5 N^3) \phi \left(\frac{\mu}{d^2 N} \right). \quad (13)$$

14. (a) (i) Draw a typical layout of a centrifugal pumping installation and describe the functions of the various accessories. (7)
- (ii) In a single acting pump the cylinder has a diameter of 150 mm and a stroke 300 mm. The water is to be raised to a height of 20 m when the pump is running at 40 rpm. Determine the theoretical discharge and the theoretical power. If the actual discharge of the pump is 3.5 lps, find the coefficient of discharge and the percentage slip of the pump. (6)

Or

- (b) A centrifugal pump draws water from a sump through a vertical 150 mm pipe. The pump has a horizontal discharge pipe 100 mm diameter which is 3.5 m above water level in the sump. While pumping 35 litres per second, gauges near the pump at entrance and discharge read $-0.35 \text{ kgf cm}^{-2}$ and $+1.8 \text{ kgf cm}^{-2}$ respectively. The discharge gauge is 0.5 m above the suction gauge. Determine the horsepower output of the pump. (13)

Fluid Mechanics And Machinery Solved Question Paper

Yijin Wang



Fluid Mechanics And Machinery Solved Question Paper:

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