

Numericals. (Chapter - 4)

Date: / /

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- Q-1 A rectangular air duct of 1.5 m^2 cross-sectional area at section 1 which is gradually reduced to 0.75 m^2 area at section 2. The velocity of flow at section 1 is 12 m/s and pressure is 30 N/m^2 . If the duct is bent by 45° , find the magnitude and direction of the force required to hold the duct in position. Take density of air as 1.15 kg/m^3 . (Nov 2013, 7 Marks)



Given data:-

$$A_1 = 1.5 \text{ m}^2$$

$$V_1 = 12 \text{ m/s}$$

$$\theta = 45^\circ$$

$$A_2 = 0.75 \text{ m}^2$$

$$P_1 = 30 \times 10^3 \text{ N/m}^2$$

$$\rho = 1.15 \text{ kg/m}^3$$

Applying Continuity equation at section 1 & 2

$$A_1 V_1 = A_2 V_2$$

$$\therefore (1.5) \times (12) = (0.75) \times V_2$$

$$\boxed{V_2 = 24 \text{ m/s}}$$

Applying Bernoulli's equation at section 1 & 2

$$\frac{P_1}{\rho g} + \frac{V_1^2}{2g} + z_1 = \frac{P_2}{\rho g} + \frac{V_2^2}{2g} + z_2$$

Enginnering Graphics Theory Part Manual For Gtu

Yi-Tong Ma



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