

CHAPTER 1 INTRODUCTION

1.1. A certain control volume of porous media received a discharge of $0.1 \text{ m}^3/\text{s}$ during a period of 10.0 minutes. The volume of outflow was measured to be 58.0 m^3 through the same period of time. Determine the change in storage in the control volume using equation 1.1.

Solution: Inflow to the control volume = $0.1 \times 10 \times 60 = 60.0 \text{ m}^3$. Outflow from the control volume = 58.0 m^3 . Using equation 1.1, change in storage = $60.0 - 58.0 = 2.0 \text{ m}^3$.

1.2. In problem 1.1, if the change in storage in the control volume is zero, what is the percentage of error encountered in measuring the outflow?

Solution: In this case the outflow must be equal to the inflow = $60.0 \text{ m}^3/\text{s}$.
% of error in measuring the outflow = $\{(60.0 - 58.0)/60.0\} \times 100 = 3.33\%$.

1.3. A certain reach of an open channel 1.0 mile in length is excavated through permeable soil. The rate of inflow to this reach is $100 \text{ ft}^3/\text{s}$ and the rate of outflow is $95 \text{ ft}^3/\text{s}$. How much of the water is being lost through this reach every year?

Solution: The difference between inflow and outflow is lost to the soil. Therefore, the volume of water lost through this reach every year = $(100 - 95) \times 60 \times 60 \times 24 \times 365 = 157,680,000 \text{ ft}^3/\text{year}$.

1.4. A cylindrical tank is supplied by volume flow rate of 80 liter/min. Two outlet pipes are connected to the base of the tank extracting water at the flow rate of 50 liter/min. Calculate the rate of change of water volume inside the tank per min. If the diameter of the tank is 60 cm, determine the change in the water level after one hour.

Solution: $V_{in} - V_{out} = V_{storage}$
Rate of change of volume = $80 - (50 + 35) = -5 \text{ l/min}$.
i.e. water volume will reduce at the rate of 5 l/min.
volume of tank = $\pi r^2 h = \frac{\pi d^2 h}{4}$
Height of water in the tank is reduced in one hour by
$$= \frac{4}{\pi (60)^2} \times 5000 \text{ cm}^3 \times 60 = 106.1 \text{ cm} = 1.06 \text{ m}.$$

1.5. Water is flowing from tap 8 mm in diameter and is collected in a 10 liter bottle. Determine the exit velocity of the water from the tap of diameter 8 mm, if the bottle is filled in:

- a) 30 sec. b) 5.0 min.

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