

Sample problems

Sample Problem 1

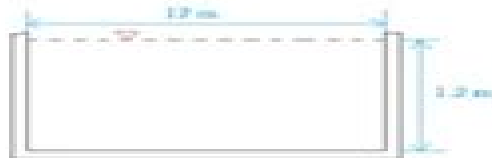
A rectangular channel 12 m. wide and a depth of 1.2 m. carries a discharge of $14 \text{ m}^3/\text{s}$.

Coefficient of roughness is 0.017.

- Calculate the slope of the channel.
- Calculate the critical depth.
- Calculate the critical slope.

Solution

(a) Slope of the channel bed:



$$A = 12(1.2) = 14.4$$

$$P = 12 + 2(1.2) = 14.4$$

$$R = \frac{A}{P} = \frac{14.4}{14.4} = 1$$

$$Q = \frac{AR^{2/3}S^{1/2}}{n}$$

$$14 = \frac{14.4(1)^{2/3}S^{1/2}}{0.017}$$

$$S = 0.000273$$

Sample Problem 2

A discharge of $4.53 \text{ m}^3/\text{s}$ in a rectangular open channel 1.82 m. wide with a slope 0.002 and $n = 0.012$. If the channel ends in a free outfall.

- Calculate the depth at the brink y_m .
- Calculate the critical depth.
- Indicate the type of flow.

Solution

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