

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

Hydrology Problems And Solutions

JR Anderson



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Reviewing **Hydrology Problems And Solutions**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Hydrology Problems And Solutions**," an enthralling opus penned by a highly acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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