

## Sample problems

### Sample Problem 1

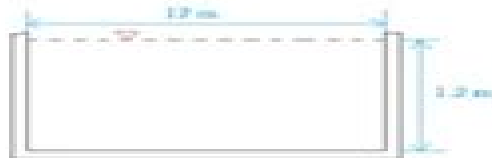
A rectangular channel 12 m. wide and a depth of 1.2 m. carries a discharge of  $14 \text{ m}^3/\text{s}$ .

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

**SJ Ball**



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## **Table of Contents Hydrology Problems And Solutions**

1. Understanding the eBook Hydrology Problems And Solutions
  - The Rise of Digital Reading Hydrology Problems And Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Hydrology Problems And Solutions
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Hydrology Problems And Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Hydrology Problems And Solutions
  - Personalized Recommendations
  - Hydrology Problems And Solutions User Reviews and Ratings
  - Hydrology Problems And Solutions and Bestseller Lists
5. Accessing Hydrology Problems And Solutions Free and Paid eBooks
  - Hydrology Problems And Solutions Public Domain eBooks
  - Hydrology Problems And Solutions eBook Subscription Services

- Hydrology Problems And Solutions Budget-Friendly Options
- 6. Navigating Hydrology Problems And Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Hydrology Problems And Solutions Compatibility with Devices
  - Hydrology Problems And Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Hydrology Problems And Solutions
  - Highlighting and Note-Taking Hydrology Problems And Solutions
  - Interactive Elements Hydrology Problems And Solutions
- 8. Staying Engaged with Hydrology Problems And Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Hydrology Problems And Solutions
- 9. Balancing eBooks and Physical Books Hydrology Problems And Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Hydrology Problems And Solutions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Hydrology Problems And Solutions
  - Setting Reading Goals Hydrology Problems And Solutions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Hydrology Problems And Solutions
  - Fact-Checking eBook Content of Hydrology Problems And Solutions
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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