



## Chapter 3

### Energy and Momentum Principles

**Problem 1.** Find the critical water depth for a specific energy head of  $E_c = 1.5$  m in the following channels:

- (a) Rectangular channel,  $b = 2$  m
- (b) Triangular channel,  $m = 1.5$  m
- (c) Trapezoidal channel,  $b = 2$  m and  $m = 1$ .

**Solution:**

- (a) Rectangular Channel

$$E_c = \frac{3}{2} y_c = 1.5$$

$$1.5 = \frac{3}{2} y_c$$

$$y_c = 1 \text{ m}$$

- (b) Triangular Channel

$$E_c = 1.25 y_c = 1.5$$

$$1.5 = 1.25 y_c$$

$$y_c = 1.2 \text{ m}$$

- (c) Trapezoidal Channel

$$E_c = y_c + \frac{Q^2}{2gA^3}$$

$$\frac{Q^2 T}{gA^3} = 1 \rightarrow Q^2 = \frac{gA^3}{T}$$

$$E_c = y_c + \frac{gA^3}{2T} \rightarrow E_c = y_c + \frac{A_c}{2T_c} \rightarrow E_c = y_c + \frac{(by_c + my_c^2)}{2(b + 2my_c)}$$

$$1.5 = y_c + \frac{(2y_c + y_c^2)}{2(2 + 2y_c)}$$

By using trial and error method,  $y_c = 1.1$  m

# Physics Principles Problems Chapter 1study Guide

## Thermal

**M Mark**



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## **Table of Contents Physics Principles Problems Chapter 1study Guide Thermal**

1. Understanding the eBook Physics Principles Problems Chapter 1study Guide Thermal
  - The Rise of Digital Reading Physics Principles Problems Chapter 1study Guide Thermal
  - Advantages of eBooks Over Traditional Books
2. Identifying Physics Principles Problems Chapter 1study Guide Thermal
  - 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 Physics Principles Problems Chapter 1study Guide Thermal
  - User-Friendly Interface
4. Exploring eBook Recommendations from Physics Principles Problems Chapter 1study Guide Thermal

- Personalized Recommendations
  - Physics Principles Problems Chapter 1study Guide Thermal User Reviews and Ratings
  - Physics Principles Problems Chapter 1study Guide Thermal and Bestseller Lists
5. Accessing Physics Principles Problems Chapter 1study Guide Thermal Free and Paid eBooks
    - Physics Principles Problems Chapter 1study Guide Thermal Public Domain eBooks
    - Physics Principles Problems Chapter 1study Guide Thermal eBook Subscription Services
    - Physics Principles Problems Chapter 1study Guide Thermal Budget-Friendly Options
  6. Navigating Physics Principles Problems Chapter 1study Guide Thermal eBook Formats
    - ePub, PDF, MOBI, and More
    - Physics Principles Problems Chapter 1study Guide Thermal Compatibility with Devices
    - Physics Principles Problems Chapter 1study Guide Thermal Enhanced eBook Features
  7. Enhancing Your Reading Experience
    - Adjustable Fonts and Text Sizes of Physics Principles Problems Chapter 1study Guide Thermal
    - Highlighting and Note-Taking Physics Principles Problems Chapter 1study Guide Thermal
    - Interactive Elements Physics Principles Problems Chapter 1study Guide Thermal
  8. Staying Engaged with Physics Principles Problems Chapter 1study Guide Thermal
    - Joining Online Reading Communities
    - Participating in Virtual Book Clubs
    - Following Authors and Publishers Physics Principles Problems Chapter 1study Guide Thermal
  9. Balancing eBooks and Physical Books Physics Principles Problems Chapter 1study Guide Thermal
    - Benefits of a Digital Library
    - Creating a Diverse Reading Collection Physics Principles Problems Chapter 1study Guide Thermal
  10. Overcoming Reading Challenges
    - Dealing with Digital Eye Strain
    - Minimizing Distractions
    - Managing Screen Time
  11. Cultivating a Reading Routine Physics Principles Problems Chapter 1study Guide Thermal
    - Setting Reading Goals Physics Principles Problems Chapter 1study Guide Thermal
    - Carving Out Dedicated Reading Time
  12. Sourcing Reliable Information of Physics Principles Problems Chapter 1study Guide Thermal

- Fact-Checking eBook Content of Physics Principles Problems Chapter 1study Guide Thermal
- 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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