

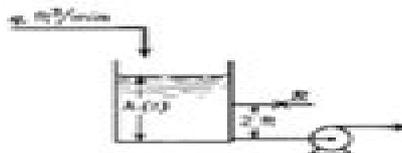
Solutions to Chapter 5 Problems

5.1 Derive the transfer function $H(s) / Q(s)$ for the liquid-level system of Fig. P5.1 when

a) The tank level operates about the steady-state value of $h_0 = 1$ ft

b) The tank level operates about the steady-state value of $h_0 = 3$ ft.

The pump removes water at a constant rate of 10 cfm (cubic feet per minute); this rate is independent of head. The cross-sectional area of the tank is 1.0 ft^2 and the resistance R is $0.5 \text{ ft}/\text{cfm}$.



a) Volume balance : $q - 10 = A \frac{dh}{dt}$

The tank level operates about the steady state value of $h_0 = 1$ ft (at this height the only outlet from the tank is through the pump)

at steady state : $q_s - 10 = 0$

after subtraction : $q - q_s = A \frac{dh}{dt}$

$$Q(s) = A \frac{dH}{dt}$$

Taking the transform : $Q(s) = AsH(s)$

Rearranging : $\boxed{\frac{H(s)}{Q(s)} = \frac{1}{As} = \frac{1}{s}}$

b) The tank level operates about the steady state value of $h_0 = 3$ ft (at this height the outlets from the tank is through the pump and through the resistance)

Volume Balance : $q - 10 - \frac{(h-2)}{R} = A \frac{dh}{dt}$

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Table of Contents Chapter 5 Solutions Liquidram

1. Understanding the eBook Chapter 5 Solutions Liquidram
 - The Rise of Digital Reading Chapter 5 Solutions Liquidram
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 5 Solutions Liquidram
 - 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 Chapter 5 Solutions Liquidram
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 5 Solutions Liquidram
 - Personalized Recommendations
 - Chapter 5 Solutions Liquidram User Reviews and Ratings
 - Chapter 5 Solutions Liquidram and Bestseller Lists

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