

# Digital Control System Analysis and Design 4th Edition Phillips solution Manual

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## CHAPTER 6

6.2-1. Consider the closed-loop system of Fig. P6.2-1.

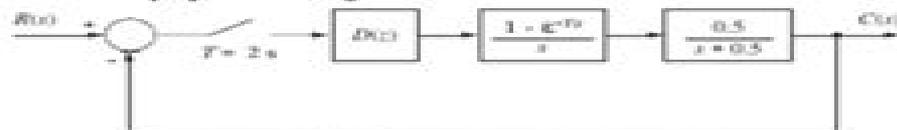


Figure P6.2-1 System for Problem 6.2-1.

- Calculate and plot the unit-step response at the sampling instants, for the case that  $D(z) = 1$ .
- Calculate the system unit-step response of the analog system, that is, with the sampler, digital controller, and data hold removed. Plot the response on the same graph with the results of part (a).
- For the system of Fig. P6.2-1, let  $D(z) = 1$  and  $T = 0.4$  s. Calculate the unit-step response and plot these results on the same graph used for parts (a) and (b).
- Use the system dc gains to calculate the steady-state responses for each of the systems of parts (a), (b), and (c). Why are these gains equal?

**Solution:**

$$(a) \quad G(z) = \frac{z-1}{z} \left[ \frac{0.5}{s(s+0.5)} \right] \Big|_{z=e^{Ts}} = \frac{z-1}{z} \frac{(1-e^{-Ts})}{(z-1)(z-e^{-Ts})} = \frac{0.6321}{z-0.3679}$$

$$\frac{G(z)}{1+G(z)} = \frac{0.6321}{z-0.2642}$$

$$\underline{C(z)} = \frac{0.6321}{z-0.2642} = \frac{0.5}{z-0.2642} + \frac{-0.5}{z-0.2642}$$

# Applied Systems Analysis Solutions Manual

**PT Brinkman**



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### **Table of Contents Applied Systems Analysis Solutions Manual**

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

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