

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.

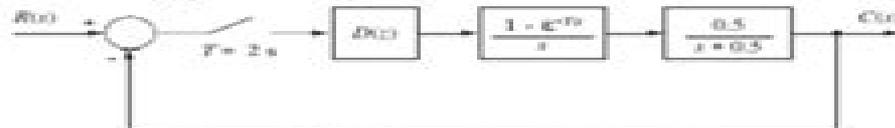


Figure P6.2-1 System for Problem 6.2-1.

- 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:

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

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

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

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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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