

CHAPTER 1

Problem 1-1

(a) Write the acceleration as

$$a(t) = \begin{cases} \alpha t, & t \leq t_0 \\ 0, & t > t_0 \end{cases}$$

Thus the velocity and position are, respectively, given by

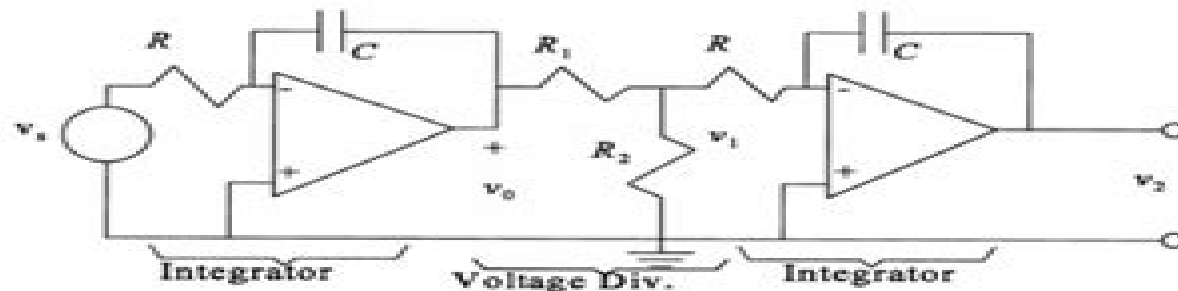
$$v(t) = \int_0^t a(\lambda) d\lambda = \begin{cases} \alpha t^2/2, & t \leq t_0 \\ \alpha t_0^2/2, & t > t_0 \end{cases}$$

and

$$x(t) = \int_0^t v(\lambda) d\lambda = \begin{cases} \alpha t^3/6, & t \leq t_0 \\ \alpha t_0^3/6 + \alpha t_0^2(t - t_0)/2, & t > t_0 \end{cases}$$

For $t_0 = 72$ s and $\alpha = 5/9$ m/s², we have $x(t) = (5/54)t^3$, $t \leq 72$ s. At $t = t_0 = 72$ s (burnout), we have $x(t_0) = 35.56$ km.

(b) See the figure below for the integrator.



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Table of Contents Signals And Systems Ziemer Solution Manual Scribd

1. Understanding the eBook Signals And Systems Ziemer Solution Manual Scribd
 - The Rise of Digital Reading Signals And Systems Ziemer Solution Manual Scribd
 - Advantages of eBooks Over Traditional Books
2. Identifying Signals And Systems Ziemer Solution Manual Scribd
 - 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 Signals And Systems Ziemer Solution Manual Scribd
 - User-Friendly Interface
4. Exploring eBook Recommendations from Signals And Systems Ziemer Solution Manual Scribd
 - Personalized Recommendations
 - Signals And Systems Ziemer Solution Manual Scribd User Reviews and Ratings
 - Signals And Systems Ziemer Solution Manual Scribd and Bestseller Lists
5. Accessing Signals And Systems Ziemer Solution Manual Scribd Free and Paid eBooks

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