

*12-16. A particle is moving along a straight line with an initial velocity of 6 m/s when it is subjected to a deceleration of $a = (-1.5v^{1/2})$ m/s², where v is in m/s. Determine how far it travels before it stops. How much time does this take?

$$S = \frac{1}{-1.5} \int_6^0 \frac{v}{v^{1/2}} dv$$

$$= \frac{1}{-1.5} \int_6^0 v^{1/2} dv$$

$$S = \frac{2}{-4.5} [v^{3/2}]_6^0$$

$$= \frac{2}{-4.5} [0 - 6^{3/2}]$$

$$\boxed{S = 6.53 \text{ m}} \quad \text{Ans.}$$

$$a = \frac{dv}{dt}$$

$$dt = \frac{dv}{a}$$

$$\int_0^t dt = \int_6^0 \frac{1}{-1.5v^{1/2}} dv$$

$$t = \frac{1}{-1.5} \int_6^0 v^{-1/2} dv$$

$$= \frac{2}{-1.5} v^{1/2} \Big|_6^0$$

$$t = \frac{0 - 2 \cdot 6^{1/2}}{-1.5}$$

$$\boxed{t = 5.16 \text{ s}}$$

HOW TO SOLVE 12-16

$$v = 0$$

Engineering Mechanics

DYNAMICS

Fourteenth Edition



R. C. Hibbeler

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Table of Contents Hibbeler Dynamics 12th Edition Solutions Chapter 16

1. Understanding the eBook Hibbeler Dynamics 12th Edition Solutions Chapter 16
 - The Rise of Digital Reading Hibbeler Dynamics 12th Edition Solutions Chapter 16
 - Advantages of eBooks Over Traditional Books
2. Identifying Hibbeler Dynamics 12th Edition Solutions Chapter 16
 - 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 Hibbeler Dynamics 12th Edition Solutions Chapter 16
 - User-Friendly Interface
4. Exploring eBook Recommendations from Hibbeler Dynamics 12th Edition Solutions Chapter 16
 - Personalized Recommendations
 - Hibbeler Dynamics 12th Edition Solutions Chapter 16 User Reviews and Ratings
 - Hibbeler Dynamics 12th Edition Solutions Chapter 16 and Bestseller Lists

5. Accessing Hibbeler Dynamics 12th Edition Solutions Chapter 16 Free and Paid eBooks
 - Hibbeler Dynamics 12th Edition Solutions Chapter 16 Public Domain eBooks
 - Hibbeler Dynamics 12th Edition Solutions Chapter 16 eBook Subscription Services
 - Hibbeler Dynamics 12th Edition Solutions Chapter 16 Budget-Friendly Options
6. Navigating Hibbeler Dynamics 12th Edition Solutions Chapter 16 eBook Formats
 - ePub, PDF, MOBI, and More
 - Hibbeler Dynamics 12th Edition Solutions Chapter 16 Compatibility with Devices
 - Hibbeler Dynamics 12th Edition Solutions Chapter 16 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Hibbeler Dynamics 12th Edition Solutions Chapter 16
 - Highlighting and Note-Taking Hibbeler Dynamics 12th Edition Solutions Chapter 16
 - Interactive Elements Hibbeler Dynamics 12th Edition Solutions Chapter 16
8. Staying Engaged with Hibbeler Dynamics 12th Edition Solutions Chapter 16
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Hibbeler Dynamics 12th Edition Solutions Chapter 16
9. Balancing eBooks and Physical Books Hibbeler Dynamics 12th Edition Solutions Chapter 16
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Hibbeler Dynamics 12th Edition Solutions Chapter 16
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Hibbeler Dynamics 12th Edition Solutions Chapter 16
 - Setting Reading Goals Hibbeler Dynamics 12th Edition Solutions Chapter 16
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Hibbeler Dynamics 12th Edition Solutions Chapter 16
 - Fact-Checking eBook Content of Hibbeler Dynamics 12th Edition Solutions Chapter 16
 - 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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