

***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?

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

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

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

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

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

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

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

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

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

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

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

$$\boxed{t = 5.30 \text{ s}}$$

HOW TO SOLVE 12-16

$$v = 0$$

Engineering Mechanics

DYNAMICS

Fourteenth Edition



R. C. Hibbeler

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BM King



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Table of Contents Solution Manual Hibbeler Dynamics 12

1. Understanding the eBook Solution Manual Hibbeler Dynamics 12
 - The Rise of Digital Reading Solution Manual Hibbeler Dynamics 12
 - Advantages of eBooks Over Traditional Books
2. Identifying Solution Manual Hibbeler Dynamics 12
 - 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 Solution Manual Hibbeler Dynamics 12
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solution Manual Hibbeler Dynamics 12
 - Personalized Recommendations
 - Solution Manual Hibbeler Dynamics 12 User Reviews and Ratings
 - Solution Manual Hibbeler Dynamics 12 and Bestseller Lists
5. Accessing Solution Manual Hibbeler Dynamics 12 Free and Paid eBooks
 - Solution Manual Hibbeler Dynamics 12 Public Domain eBooks
 - Solution Manual Hibbeler Dynamics 12 eBook Subscription Services
 - Solution Manual Hibbeler Dynamics 12 Budget-Friendly Options
6. Navigating Solution Manual Hibbeler Dynamics 12 eBook Formats

- ePub, PDF, MOBI, and More
 - Solution Manual Hibbeler Dynamics 12 Compatibility with Devices
 - Solution Manual Hibbeler Dynamics 12 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solution Manual Hibbeler Dynamics 12
 - Highlighting and Note-Taking Solution Manual Hibbeler Dynamics 12
 - Interactive Elements Solution Manual Hibbeler Dynamics 12
 8. Staying Engaged with Solution Manual Hibbeler Dynamics 12
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solution Manual Hibbeler Dynamics 12
 9. Balancing eBooks and Physical Books Solution Manual Hibbeler Dynamics 12
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solution Manual Hibbeler Dynamics 12
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Solution Manual Hibbeler Dynamics 12
 - Setting Reading Goals Solution Manual Hibbeler Dynamics 12
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Solution Manual Hibbeler Dynamics 12
 - Fact-Checking eBook Content of Solution Manual Hibbeler Dynamics 12
 - 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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