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12-1.

A spring is stretched 175 mm by an 8-kg block. If the block is displaced 100 mm downward from its equilibrium position and given a downward velocity of 1.50 m/s, determine the differential equation which describes the motion. Assume that positive displacement is downward. Also, determine the position of the block when $t = 0.22$ s.

SOLUTION

$$+\uparrow \Sigma F_y = ma_y; \quad mg - k(y + y_{st}) = m\ddot{y} \quad \text{where } ky_{st} = mg$$

$$\ddot{y} + \frac{k}{m}y = 0$$

Hence,
$$\rho = \frac{k}{13.8} \quad \text{Where } k = \frac{8(9.81)}{0.175} = 448.46 \text{ N/m}$$

$$= \frac{448.46}{13.8} = 7.487$$

$$\text{or } \ddot{y} + (7.487)^2 y = 0 \quad \ddot{y} + 56.1y = 0 \quad \text{Ans.}$$

The solution of the above differential equation is of the form:

$$y = A \sin pt + B \cos pt \quad (1)$$

$$v = \dot{y} = Ap \cos pt - Bp \sin pt \quad (2)$$

At $t = 0$, $y = 0.1$ m and $v = v_0 = 1.50$ m/s

From Eq. (1) $0.1 = A \sin 0 + B \cos 0 \quad B = 0.1$ m

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Table of Contents Free Solution Manuals For Engineering S

1. Understanding the eBook Free Solution Manuals For Engineering S
 - The Rise of Digital Reading Free Solution Manuals For Engineering S
 - Advantages of eBooks Over Traditional Books
2. Identifying Free Solution Manuals For Engineering S
 - 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 Free Solution Manuals For Engineering S
 - User-Friendly Interface
4. Exploring eBook Recommendations from Free Solution Manuals For Engineering S
 - Personalized Recommendations
 - Free Solution Manuals For Engineering S User Reviews and Ratings
 - Free Solution Manuals For Engineering S and Bestseller Lists
5. Accessing Free Solution Manuals For Engineering S Free and Paid eBooks
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 - Free Solution Manuals For Engineering S eBook Subscription Services
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 - Free Solution Manuals For Engineering S Enhanced eBook Features
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 - Highlighting and Note-Taking Free Solution Manuals For Engineering S
 - Interactive Elements Free Solution Manuals For Engineering S
8. Staying Engaged with Free Solution Manuals For Engineering S

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- Participating in Virtual Book Clubs
- Following Authors and Publishers Free Solution Manuals For Engineering S
- 9. Balancing eBooks and Physical Books Free Solution Manuals For Engineering S
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Free Solution Manuals For Engineering S
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Free Solution Manuals For Engineering S
 - Setting Reading Goals Free Solution Manuals For Engineering S
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Free Solution Manuals For Engineering S
 - Fact-Checking eBook Content of Free Solution Manuals For Engineering S
 - 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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