

- (ii) The mass of the trolley is 0.80 kg. The force constant of each spring is 14 Nm^{-1} . A student pulls the trolley to the left as shown in Fig. 3.2.

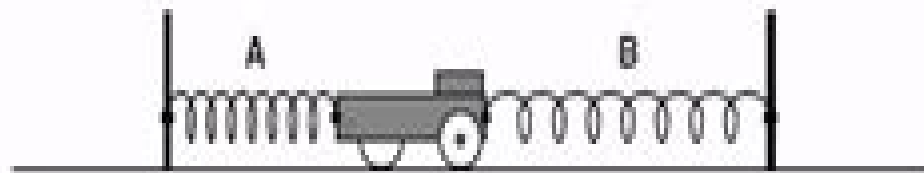


Fig. 3.2

The extension of spring A is 0.30 m and the extension of spring B is 0.50 m. The student releases the trolley. Calculate the initial values of

- 1 the acceleration of the trolley

0.80 kg

A ← [] → B

$$F = kx$$

$$F = 14 \times 0.3$$

$$= 4.2 \text{ N}$$

$$F = ma$$

$$7 - 4.2 = 0.8 \times a$$

$$a = \frac{7 - 4.2}{0.8}$$

$$= 3.5 \text{ ms}^{-2} [3]$$

$$F = kx$$

$$F = 14 \times 0.5$$

$$= 7.0 \text{ N}$$

Physics A G481 June 2013

Tobias Bleicker



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Table of Contents Physics A G481 June 2013

1. Understanding the eBook Physics A G481 June 2013
 - The Rise of Digital Reading Physics A G481 June 2013
 - Advantages of eBooks Over Traditional Books
2. Identifying Physics A G481 June 2013
 - 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 Physics A G481 June 2013
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physics A G481 June 2013
 - Personalized Recommendations

- Physics A G481 June 2013 User Reviews and Ratings
- Physics A G481 June 2013 and Bestseller Lists
- 5. Accessing Physics A G481 June 2013 Free and Paid eBooks
 - Physics A G481 June 2013 Public Domain eBooks
 - Physics A G481 June 2013 eBook Subscription Services
 - Physics A G481 June 2013 Budget-Friendly Options
- 6. Navigating Physics A G481 June 2013 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physics A G481 June 2013 Compatibility with Devices
 - Physics A G481 June 2013 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physics A G481 June 2013
 - Highlighting and Note-Taking Physics A G481 June 2013
 - Interactive Elements Physics A G481 June 2013
- 8. Staying Engaged with Physics A G481 June 2013
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physics A G481 June 2013
- 9. Balancing eBooks and Physical Books Physics A G481 June 2013
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physics A G481 June 2013
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physics A G481 June 2013
 - Setting Reading Goals Physics A G481 June 2013
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physics A G481 June 2013
 - Fact-Checking eBook Content of Physics A G481 June 2013

- 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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