

Question 1 [16 marks]

A 50.0 g object connected to a spring with a force constant at 35.0 N/m oscillates on a horizontal frictionless surface with an amplitude of 4.00 cm. Find:

- (a) the total energy of the system
- (b) the speed of the object when it is 1.0 cm from its equilibrium position
- (c) the kinetic energy when the object is 3.0 cm from its equilibrium position.
- (d) the potential energy when the object is 3.0 cm from its equilibrium position.

Question 2 [16 marks]

When an open metal pipe is cut into two pieces, the lowest resonance for the air column in one piece is 256 Hz and that for the other is 440 Hz.

- (a) What resonant frequency would have been produced by the original pipe?
- (b) How long was the original pipe?
- (c) If we take the two new pieces and close one end of each, what are the lowest frequencies at which they will now resonate?

Note: Assume that the speed of sound is $v = 343$ m/s.

Question 3 [16 Marks]

A thin sheet of mica ($n = 1.58$) is used to cover one slit of a double-slit arrangement. The central point on the screen is now occupied by the fringe that corresponds to the $m = 7$ fringe in the absence of the mica. If $\lambda = 550$ nm, what is the thickness of the mica?

Question 4 [16 Marks]

Silicon has a refractive index of $n = 3.5$ for visible light. To minimize reflective losses at the surface, a silicon solar cell is coated with a thin layer of silicon monoxide ($n = 1.45$).

- (a) Determine the minimum thickness of this layer that will produce the least reflection at a wavelength of 550 nm.
- (b) At what wavelength between 200 and 800 nm will this thin layer produce maximum reflection?

Higher Physics Past Paper 2005

Robert R. Redfield



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1. Understanding the eBook Higher Physics Past Paper 2005
 - The Rise of Digital Reading Higher Physics Past Paper 2005
 - Advantages of eBooks Over Traditional Books
2. Identifying Higher Physics Past Paper 2005
 - 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 Higher Physics Past Paper 2005
 - User-Friendly Interface
4. Exploring eBook Recommendations from Higher Physics Past Paper 2005
 - Personalized Recommendations
 - Higher Physics Past Paper 2005 User Reviews and Ratings
 - Higher Physics Past Paper 2005 and Bestseller Lists
5. Accessing Higher Physics Past Paper 2005 Free and Paid eBooks
 - Higher Physics Past Paper 2005 Public Domain eBooks
 - Higher Physics Past Paper 2005 eBook Subscription Services
 - Higher Physics Past Paper 2005 Budget-Friendly Options
6. Navigating Higher Physics Past Paper 2005 eBook Formats

- ePub, PDF, MOBI, and More
- Higher Physics Past Paper 2005 Compatibility with Devices
- Higher Physics Past Paper 2005 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Higher Physics Past Paper 2005
 - Highlighting and Note-Taking Higher Physics Past Paper 2005
 - Interactive Elements Higher Physics Past Paper 2005
- 8. Staying Engaged with Higher Physics Past Paper 2005
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Higher Physics Past Paper 2005
- 9. Balancing eBooks and Physical Books Higher Physics Past Paper 2005
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Higher Physics Past Paper 2005
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Higher Physics Past Paper 2005
 - Setting Reading Goals Higher Physics Past Paper 2005
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Higher Physics Past Paper 2005
 - Fact-Checking eBook Content of Higher Physics Past Paper 2005
 - 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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