

Physics short notes

Simple Harmonic Motion

SHM Quantities

★ Body starts oscillating from mean position ($t=0, x=0$) \rightarrow \odot Is a Sin function $\left[t = T \cdot \frac{\theta}{2\pi} \right]$

$x = A \sin \omega t$
[Sin function]

$v = \frac{dx}{dt} = A\omega \cos \omega t$
[Cos function]

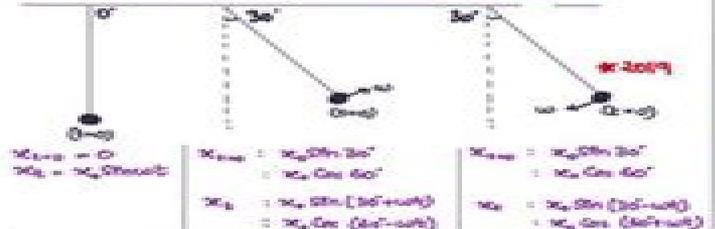
$a = \frac{dv}{dt} = -A\omega^2 \sin \omega t$
[-Sin function]



★ 2014 [Extreme]

t	0	30°	45°	60°	90°	120°	180°	240°	270°	360°
x	0	$(\frac{A}{2})$	$(\frac{A\sqrt{2}}{2})$	(A)	0	$(-A)$	0	$(\frac{A}{2})$	$(\frac{A\sqrt{2}}{2})$	A
v	0	$(\frac{A\omega\sqrt{3}}{2})$	$(\frac{A\omega\sqrt{2}}{2})$	$(A\omega)$	0	$(-A\omega)$	0	$(-A\omega)$	$(-A\omega)$	0
a	0	$(-\frac{A\omega^2\sqrt{3}}{2})$	$(-\frac{A\omega^2\sqrt{2}}{2})$	$(-A\omega^2)$	0	$(A\omega^2)$	0	$(A\omega^2)$	$(A\omega^2)$	0

★ Pendulum's Oscillatⁿ



★ Force in SHM:

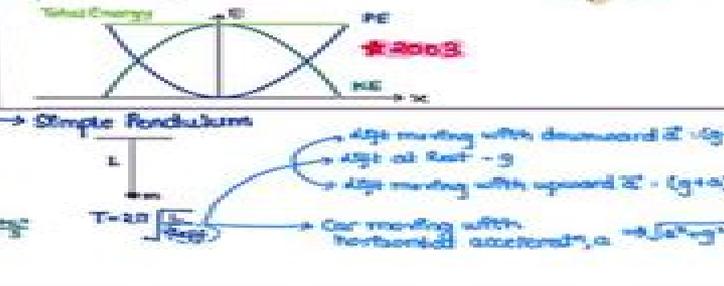
$F_s = m \cdot \ddot{x}$
 $F = -m \cdot \omega^2 x = -kx$
 $\omega = \sqrt{\frac{k}{m}}$
 If a mass 'm' is connected to a spring of spring constant, k.
 $\ddot{x} = -\omega^2 x$
 $= -\frac{k}{m} x$

★ Energies in SHM - Conserved in SHM

$KE_t = \frac{1}{2} m v_t^2$
 $PE_t = \frac{1}{2} k x_t^2$
 $KE_x = \frac{1}{2} k (A^2 - x^2)$
 $PE_x = \frac{1}{2} k x^2$
 $KE_{max} = \frac{1}{2} k A^2$
 $PE_{max} = \frac{1}{2} k A^2$
 $Total Energy = \frac{1}{2} k A^2$
 If time period of SHM is T

Pendulums

$T = 2\pi \sqrt{\frac{\text{Inertial factor}}{\text{Elastic factor}}}$



SHM: Super-imposed

$y_1 = a_1 \sin \omega t$
 $y_2 = a_2 \sin (\omega t + \phi)$
 $y_{res} = \sqrt{y_1^2 + y_2^2 + 2y_1 y_2 \cos \phi}$

$\rightarrow y_1 = a_1 \sin \omega t$
 $y_2 = a_2 \sin (\omega t + 60^\circ)$
 $a_{res} = \sqrt{a_1^2 + a_2^2 + 2a_1 a_2 \cos(60^\circ)}$

$\rightarrow y_1 = a_1 \sin \omega t$
 $y_2 = a_2 \sin (\omega t + 90^\circ)$
 $a_{res} = \sqrt{a_1^2 + a_2^2 + 2a_1 a_2 \cos(90^\circ)}$

$\rightarrow y_1 = a_1 \sin \omega t$
 $y_2 = a_2 \sin (\omega t + 180^\circ)$
 $a_{res} = \sqrt{a_1^2 + a_2^2 + 2a_1 a_2 \cos(180^\circ)}$

After 'n' oscillations of shorter pendulum $\rightarrow (n-1)T_1 = (n)T_2$
 After '(n-1)' oscillations of longer pendulum

★ 2017 $A = 3cm$
 $x = 2cm$
 $v_x = 0.4$
 what is T?
 $1. \omega = \sqrt{\frac{k}{m}} = \omega^2 (3)$
 $2. \text{calculate } \omega$
 $3. \text{calculate } T = \frac{2\pi}{\omega}$

★ 2015 $v_{max} = \alpha$
 $v_{max} = \beta$
 what is T?
 $\frac{\alpha}{\beta} = \frac{\omega^2 x_1}{\omega x_2}$

★ 2015 $v_1 = \omega \sqrt{A^2 - x_1^2}$
 $v_2 = \omega \sqrt{A^2 - x_2^2}$
 Equalize v^2 for ω .

★ 2008 10^7 rad/s
 $10^7 \text{ rad/s} + \omega = 10^8 \text{ rad/s}$
 what is $\frac{a_{max1}}{a_{max2}} = \left(\frac{\omega_1}{\omega_2}\right)^2$

Spring-mass systems

Amplitude of Oscillation - x
 Time period = $2\pi \sqrt{\frac{m}{k}}$
 ★ 2018, 2007

A. When spring is cut
 $k_1 = \frac{F_1}{x}$
 $k_2 = \frac{F_2}{x}$

B. Combinations
 - Same x
 $k_p = k_1 + k_2$

C. Vertical Oscillation
 Max Released - Steady
 Max Released - Oscillatory

Steady: $x = \frac{mg}{k}$
 Particle doesn't oscillate about the new mean position.

Oscillatory: $2x = \frac{mg}{k}$
 Particle oscillates with an amplitude of x_0 about the new mean position.

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Xiaolong Qi



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Table of Contents Notes Physics I Chapter 12 Simple Harmonic Motion

1. Understanding the eBook Notes Physics I Chapter 12 Simple Harmonic Motion
 - The Rise of Digital Reading Notes Physics I Chapter 12 Simple Harmonic Motion
 - Advantages of eBooks Over Traditional Books
2. Identifying Notes Physics I Chapter 12 Simple Harmonic Motion
 - 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 Notes Physics I Chapter 12 Simple Harmonic Motion
 - User-Friendly Interface
4. Exploring eBook Recommendations from Notes Physics I Chapter 12 Simple Harmonic Motion
 - Personalized Recommendations
 - Notes Physics I Chapter 12 Simple Harmonic Motion User Reviews and Ratings

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