

SPEED: If constant speed, use $v = \frac{d}{t}$

$$v = u + at$$

$$v^2 = u^2 + 2as$$

$$s = \frac{uv}{a}$$

$$s = ut + \frac{1}{2}at^2$$

WHERE:

u = initial speed (ms^{-1})

v = final speed (ms^{-1})

s = displacement (m)

t = time (seconds)

a = acceleration (ms^{-2})

Avg ACCELERATION:

$$a = \frac{v-u}{t}$$

KMH⁻¹ TO MS⁻²:

\times by 3.6

MS⁻² TO KMH⁻¹:

\times by 3.6

KM TO M:

\times by 1000

M TO KM:

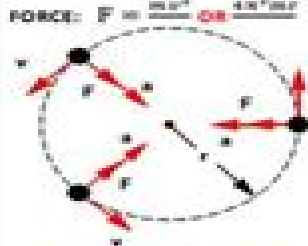
\div by 1000

CIRCULAR MOTION

SPEED: $v = \frac{d}{t}$ OR $v = \frac{2\pi r}{T}$ OR $v = \sqrt{ar}$

ACCELERATION: $a = \frac{v^2}{r}$ OR $\frac{4\pi^2}{T^2}$

FORCE: $F = \frac{mv^2}{r}$ OR $\frac{4\pi^2 mr}{T^2}$



VERTICAL CIRCULAR MOTION:

Forces at top: If at minimum speed, no normal force, so feel weightless! If above minimum speed, total force (centripetal force) is made of a downward gravity and a downward normal:

$$\Sigma F = N + mg = \frac{mv^2}{r}$$

Forces at bottom: Centripetal force (towards center/upwards) is made of a downwards gravity force and a BIGGER upwards normal force. You feel heavier! $\Sigma F = N - mg = \frac{mv^2}{r}$

Minimum Speed at top: $v = \sqrt{rg}$

BALL ON A STRING

Radius of path $r = 1.5 \text{ m}$ and

Circumference of path = $2\pi r$

Forces are the towards the center, except tension instead of reaction/normal force.

Tension: $F = mg/\cos\theta$

Vertical force = $3\cos\theta$

Speed = $\sqrt{rg \tan\theta}$

Speed if given length = $\sqrt{Lg \sin\theta \tan\theta}$

Angle = $\tan^{-1}(\frac{v^2}{rg})$

INCLINED PLANES

TO FIND R (NORMAL FORCE): $R = mg \cos\theta$

TO FIND IF (FORCE DOWN PLANE) (WITH GRAVITY): $\Sigma F = mg \sin\theta$

TO FIND ACCELERATION WITH NO FRICTION:

$$a = g \sin\theta$$

BANKED TRACKS

$$\tan\theta = \frac{v^2}{rg}$$

$$F_{\text{NET}} = \frac{mv^2}{r}$$

$$\text{Force} = \dots = \frac{mv^2}{r}$$

ENERGY

KINETIC ENERGY: $EK = \frac{1}{2}mv^2$

GRAVITATIONAL POTENTIAL ENERGY: $GPE = mgh$

TOTAL MECHANICAL ENERGY: $GPE + EK = EPE$

DETERMINING INELASTIC/ELASTIC COLLISIONS:

1: Calculate EK initial by adding the EK of object one with object two 2: Calculate EK final by using the combined mass of the system & combined speed (found using $v = u/m$) 3: If the same = elastic, different = inelastic

Average force if momentum is known: $F = \frac{\Delta p}{\Delta t}$

SPRINGS

HOOKE'S LAW: $F = k\Delta x$

SPRING ENERGY: $\frac{1}{2}k\Delta x^2$

k = gradient of a force vs distance graph.

Example: Show that the spring constant is 5 Nm^{-1}

Use $F = k\Delta x$ & rearrange to find k .

Example: Find the extension of the spring at the lowest point of oscillation.

Use GPE ($1/2kx^2$) and find x .

Speed: $\frac{mv^2}{r}$

Greater k value = stiffer spring

WORK

The product of the applied force & the displacement in the direction of the force. $W = F \cos\theta \Delta x$ OR $W = Q \cdot d$



POWER

The rate at which work is done. $P = \frac{\text{work done}}{\text{time taken}} = \frac{W}{t}$

If ΣF isn't constant, can't use $F = ma$. Must use area under force-distance graph.

NEWTON'S LAWS

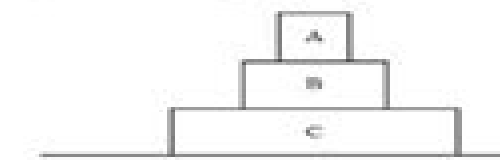
1st LAW: If an object has 0 net force acting on it, it will either remain at rest or continue going with a constant velocity

2nd LAW: $F = ma$

3rd LAW: For every action, there is an equal and opposite reaction

FORCES

100g blocks, A (0.050 kg), B (0.10 kg) and C (0.20 kg)



Force of A on B = 0.5N

Force of B on C = 1.5N (A and B together)

Force of C on ground = 3.5N (A, B and C together)



RADIUS & ORBIT

RADIUS: Height + radius of Earth

SPEED: $v = \frac{2\pi r}{T}$

TIME PERIOD (seconds): $T = \sqrt{\frac{4\pi^2 r^3}{GM}}$ IF GEOSTATIONARY

SATELLITE TIME = 86400s

RADIUS OF ORBIT (meters): $r = \sqrt[3]{\left(\frac{GMT^2}{4\pi^2}\right)}$

STRENGTH OF GRAVITY: $g = \frac{GM}{r^2}$

GRAVITATIONAL FORCE: $F = \frac{GMm}{r^2}$

ACCELERATION: $a = \frac{v^2}{r}$ OR $a = \frac{4\pi^2}{T^2}$

APPARENT WEIGHTLESSNESS

Apparent weightlessness is achieved when an object falls with an acceleration equal to the gravitational field strength, as no normal reaction force is experienced. For example, astronauts in a satellite in stable orbit will feel weightless as the satellite is in constant free-fall. True weightlessness when $g=0 \text{ N/kg}$ usually in deep space.

$E < E_a$ heavier, $E > E_a$ lighter.

APPARENT WEIGHT (NORMAL FORCE)

Going up: $F = mg + a$, Going down: $F = m(g - a)$

PROJECTILE MOTION

HORIZONTAL COMPONENT: Usually no acceleration, so use $a = 0$

To find initial speed, use $u_x = v \sin(\theta)$

VERTICAL COMPONENT: Has acceleration, so use equation of motion

To find initial speed, use $u_y = v \cos(\theta)$

$\tan(\theta) = \frac{\text{vertical speed}}{\text{horizontal speed}}$

EXAMPLE: A batsman hits a cricket ball (from ground level) at a speed of 30.0 ms^{-1} and at an angle of 36.9° to the horizontal. An advertising board is placed on the boundary of the cricket ground at a distance 72.0 m from the batsman. Air resistance can be ignored. At what height above the ground will the ball strike the advertising board?

Remember that it will take the same time to go up as to come down (if air resistance can be ignored).

Horizontal motion:

$$u_x = v \sin(\theta)$$

$$u_x = 30 \sin(36.9) = 24 \text{ ms}^{-1}$$

Using $x = ut$, $t = \frac{x}{u} = 3s$

Vertical motion:

$$u_y = v \cos(\theta)$$

$$u_y = 30 \cos(36.9) = 18 \text{ ms}^{-1}$$

Using $x = ut + \frac{1}{2}at^2$

$$x = 18 \times 3 + \frac{1}{2} \times (-10) \times 3^2$$

$$x = 54 - 45 = 9 \text{ m}$$

EXAMPLE: A car is discovered at the bottom of a 72 m cliff. How fast was the car going if it landed 22 m horizontally from the cliff's edge? (Note that the cliff is flat, i.e. the car came off the cliff horizontally).

First find the time it takes for the car to reach the bottom of the cliff.

(Vertical motion)

$$x = ut + \frac{1}{2}at^2$$

$$72 = 0 + \frac{1}{2} \times 10t^2$$

$$72 = 5t^2, t^2 = \frac{72}{5}$$

$$t = \pm 3.7 \text{ s}$$

Since time cannot be negative the answer is 3.7 s .

FOR SYMMETRICAL FLIGHT:

$$R \text{ AND } F = \frac{u^2 \sin 2\theta}{g}$$

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JE Gale



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The Concept of Matter Florestano Evangelisti, 2023-07-15 Our current concept of matter one of scientific research's greatest successes represents a long journey from questions posed during the birth of philosophy in Ancient Greece to recent advances in physics and chemistry including Quantum Physics This book outlines that journey The book has three parts each detailing a phase of the journey The first saw the development of a conception based on classical physics the second saw the construction of the old quantum theory attempting to explain the mysterious properties of matter resulting in formulation of the new quantum theory the third saw the formation of the modern conception of matter based on quantum mechanics Along the way various topics are discussed including rediscovery and appropriation of antiquity by Western culture in the modern era the subsequent revision process in the 16th and 17th centuries and the new experiments and theories of the 18th attempts to understand the mysterious properties of matter that could not be explained by classical physics the first quantization hypotheses discovery of new purely quantum mechanical properties of matter and the ultimate clarification of atomic structure This book is aimed at anyone who wants a clear picture of how we arrived at the modern conception of matter

A Mathematician's Search for Technologies of Understanding the Universe Helen Thrift, Yuri Stropovskiy, Francisco Bulnes, 2020-07-24 This book details the academic life of a mathematics researcher and nanotechnologist searching for modern technologies that can establish the survival of man in the universe It discusses the struggles of academics to defend the scientific truth against the power and the interests of the wealthy In doing so it also considers diverse philosophical pronouncements realised from mathematical perspectives and their universal application in other sciences and engineering fields

American Journal of Physics, 2007

Resources in Education, 1974-07

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El-Hi Textbooks and Serials in Print, 2003

Calculus, Single Variable Deborah

Hughes-Hallett,2001-07-13 The new edition exhibits the same strengths from earlier editions including the Rule of Four an emphasis on modeling exposition that students can read and understand and a flexible approach to technology The conceptual and modeling problems praised for their creativity and variety continue to motivate and challenge students

Fundamentals of Physics, Part 4, Chapters 34-38 David Halliday,Robert Resnick,Jearl Walker,1996-08-16 Part 3 of the fifth edition of this introduction to physics This text addresses the issue of building bridges of reason so that students may move from qualitative understanding of any given physics concept to making decisions about how to solve a problem involving that concept Handbook of College Science Teaching Joel J. Mintzes,2006 The Handbook offers models of teaching and learning that go beyond the typical lecture laboratory format and provides rationales for new practices in the college classroom It is ideal for graduate teaching assistants senior faculty and graduate coordinators and mid career professors in search of reinvigoration **El-Hi Textbooks & Serials in Print, 2005** ,2005 General Physics Douglas C.

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