

Position, velocity and acceleration

$$\begin{aligned}\Delta x / \Delta t &= v_{av} & \Delta x / \Delta t &= a_{av} \\ \text{Area under } v(t) &= \Delta x = s & \text{slope of } x(t) &= v(t) \\ \text{Area under } a(t) &= \Delta v & \text{slope of } v(t) &= a(t)\end{aligned}$$

Uniformly accelerated linear motion ($a = \text{const.}$)

$$\begin{aligned}v &= u + at & s &= ut + \frac{1}{2}at^2 \\ v^2 &= u^2 + 2as & s &= \frac{u+v}{2}t\end{aligned}$$

Alternative form

$$\begin{aligned}v &= v_0 + at & x &= x_0 + v_0 t + \frac{1}{2}at^2 \\ v^2 &= v_0^2 + 2a(x - x_0) & x &= x_0 + \left(\frac{v_0 + v}{2}\right)t\end{aligned}$$

Projectile motion 2D (uniform field $g = \text{const.}$)

$$\begin{aligned}a_y &= -g = \text{const.} & a_x &= 0 = \text{const.} \\ v_y(t) &= v_y(0) - gt & v_x(t) &= v_x(0) = \text{const.} \\ y(t) &= y(0) + v_y(0)t - \frac{1}{2}gt^2 & x(t) &= x(0) + v_x(0)t\end{aligned}$$

In terms of $v(0)$ and θ

$$\begin{aligned}a_y &= -g = \text{const.} & a_x &= 0 = \text{const.} \\ v_y &= v(0) \sin \theta - gt & v_x &= v(0) \cos \theta = \text{const.} \\ y &= y(0) + v(0)t \sin \theta - \frac{1}{2}gt^2 & x &= x(0) + v(0)t \cos \theta\end{aligned}$$

$$\begin{aligned}v^2(y) &= v^2(0) - 2g(y - y_0) \\ v_y^2(y) &= v_y^2(0) - 2g(y - y_0)\end{aligned}$$

Trajectory and velocity equations for $x(0) = y(0) = 0$

$$\begin{aligned}y(x) &= \left[\frac{v_y(0)}{v_x(0)}\right]x - \left[\frac{1}{2}\frac{g}{v_x^2(0)}\right]x^2 \\ y(x) &= x \tan \theta - \left[\frac{1}{2}\frac{g}{v^2(0) \cos^2 \theta}\right]x^2\end{aligned}$$

Range R , height h , flight time T

$$\begin{aligned}h &= v_y^2(0)/2g & h &= v^2(0) \sin^2 \theta / 2g \\ R &= 2v_x(0)v_y(0)/g & R &= v^2(0) \sin 2\theta / g \\ T &= 2v_y(0)/g & T &= 2v(0) \sin \theta / g\end{aligned}$$

$$h = \frac{R}{4} \tan \theta$$

Circular motion

$$\begin{aligned}\text{Centripetal acceleration} & a_c = v^2/r = r\omega^2 \\ \text{Arc length} & s = r\theta \\ \text{Tangential speed} & v = r\omega = 2\pi r/T \\ \text{Tangential acceleration} & a_t = r\alpha\end{aligned}$$

$$\begin{aligned}\text{Angular frequency} & \omega = 2\pi f = 2\pi/T \\ \text{Frequency and time period} & f = 1/T \\ \text{Uniform circular motion} & a_r = 0, \alpha = 0\end{aligned}$$

Forces

$$\begin{aligned}\text{Newton's 2nd Law} & F_{\text{net}} = ma \\ \text{Friction (static)} & f_s \leq f_{s,\text{max}} = \mu_s n \\ \text{Friction (kinetic)} & f_k = \mu_k n \\ \text{Weight} & w = mg\end{aligned}$$

Grav. fields due to point or spherical sources

$$\begin{aligned}\text{Force between masses} & F = Gmm'/r^2 \\ \text{Gravity field of mass } m & g = Gm/r^2 \\ \text{G.P.E. two masses} & U = -Gmm'/r \\ \text{Grav. potential of } m & V = -Gm/r\end{aligned}$$

Orbital motion

$$\begin{aligned}\text{Kepler's 2nd Law (K2)} & T^2 = (4\pi^2/GM)r^3 \\ \text{Orbit (circular)} & v^2 = GM/r \\ \text{Escape velocity} & v^2 = 2GM/r\end{aligned}$$

Constants related to gravity

$$\begin{aligned}\text{Universal const. of gravitation} & G = 6.67 \times 10^{-11} \text{ N} \cdot \text{m}^2/\text{kg}^2 \\ \text{Earth surface gravity} & g = 9.81 \text{ m/s}^2 \\ \text{Earth mass \& } G & GM_E = 3.98 \times 10^{14} \text{ m}^3/\text{s}^2 \\ \text{Solar mass \& } G & GM_\odot = 1.33 \times 10^{20} \text{ m}^3/\text{s}^2 \\ \text{Moon mass \& } G & GM_\zeta = 4.91 \times 10^{12} \text{ m}^3/\text{s}^2\end{aligned}$$

Work and energy

$$\begin{aligned}\text{Kinetic energy} & K = \frac{1}{2}mv^2 \\ \text{Work done, const. force} & W = Fx \cos \varphi = F_{\parallel} \cdot s \\ \text{Power} & P = \Delta E / \Delta t = W / \Delta t \\ \text{Instantaneous Power} & P = Fv \cos \varphi = F_{\parallel} \cdot v \\ \text{Work-energy theorem} & W_{\text{net}} = W_s + W_{\text{nc}} = \Delta K \\ \text{Work done by con. forces} & W_c = -\Delta U \\ \text{Mechanical energy} & E_{\text{mech}} = K + U \\ \text{Conservation of mech. energy} & K_i + U_i + W_{\text{nc}} = K_f + U_f \\ \text{Work done by non-con. forces} & W_{\text{nc}} = \Delta E_{\text{mech}} \\ \text{GPE uniform field} & U(y) = mgy + U(0) \\ \text{GPE uniform field} & \Delta U_{\text{grav.}} = mgh = mg\Delta y \\ \text{Spring (strain) P.E.} & U_{\text{spring}} = \frac{1}{2}kx^2 \\ \text{Mechanical energy} & E_{\text{mech.}} = K + U_{\text{total}}\end{aligned}$$

Physics Formula Sheet Halliday And Resnick

**Edward Derringham, David
Halliday, Robert Resnick**



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,1973-05 **Physics** David Halliday, Robert Resnick, 1986-04-28 This updated edition covers the fundamentals of physics with greater stress on unifying wave theme and quantum ideas Attention is given to practical applications as well as historical and philosophical background Figures and illustrations have been improved and expanded and sections within chapters have been rearranged to provide more flexibility for the instructor Expanded to include seven new chapters on such topics as atomic structure and physics electrical conduction in solids and nuclear physics Greater emphasis is given to SI units in accordance with their increasing use **Fundamentals of Physics, Solutions Manual** Edward Derrinigh, David Halliday, Robert Resnick, 1988-08-30 This third edition of the famous introductory physics text has been thoroughly revised and updated The new edition contains two entirely new chapters Relativity as the concluding chapter of the regular version and Particles and the Cosmos as the concluding chapter of the extended version New also are 16 essays distributed throughout the text on applications of physics to real world topics of student interest Each essay is self contained and is written by an expert in the topic The body of the text contains more help in problem solving and the chapter sections are shorter making the material more accessible There are more photos and diagrams than before including attention getting chapter head photos and captions The number of worked examples has been increased as has the number of questions exercises and problems In addition a thread of ideas from relativistic and quantum physics is weaved through the earlier chapters preparing the way for the later chapters **An Introduction to X-Ray Physics, Optics, and Applications**

Carolyn A. MacDonald, 2017-06-13 In this book Carolyn A MacDonald provides a comprehensive introduction to the physics of a wide range of x ray applications optics and analysis tools Theory is applied to practical considerations of optics and applications ranging from astronomy to medical imaging and materials analysis Emphasizing common physical concepts that underpin diverse phenomena and applications of x ray physics the book opens with a look at nuclear medicine motivating further investigations into scattering detection and noise statistics The second section explores topics in x ray generation including characteristic emission x ray fluorescence analysis bremsstrahlung emission and synchrotron and laser sources The third section details the main forms of interaction including the physics of photoelectric absorption coherent and Compton

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American Journal of Physics ,2001 **Smartphones as Mobile Minilabs in Physics** Jochen Kuhn,Patrik

Vogt,2022-09-28 This book presents more than 70 physics experiments from iPhysicsLabs column of the Journal The Physics Teacher The articles are aimed at physics lecturers trainee teachers and teachers who want to take their classes to the next level using digital devices The experiments can easily be performed and analyzed using smartphones or tablets The topics span from mechanics optics thermodynamics astrophysics and astronomy to acoustics electrodynamics and electronics Authors worldwide have contributed to this series of articles To celebrate the 10th anniversary of iPhysicsLabs Jochen Kuhn and Patrik Vogt have collected more than 70 most popular and interesting articles for this book

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