

## 0.1: Physical Constants

Speed of light	$c$	$3 \times 10^8 \text{ m/s}$
Planck constant	$h$	$6.63 \times 10^{-34} \text{ J s}$
	$hc$	$1242 \text{ eV-nm}$
Gravitation constant	$G$	$6.67 \times 10^{-11} \text{ m}^3 \text{ kg}^{-1} \text{ s}^{-2}$
Boltzmann constant	$k$	$1.38 \times 10^{-23} \text{ J/K}$
Molar gas constant	$R$	$8.314 \text{ J/(mol K)}$
Avogadro's number	$N_A$	$6.023 \times 10^{23} \text{ mol}^{-1}$
Charge of electron	$e$	$1.602 \times 10^{-19} \text{ C}$
Permeability of vacuum	$\mu_0$	$4\pi \times 10^{-7} \text{ N/A}^2$
Permittivity of vacuum	$\epsilon_0$	$8.85 \times 10^{-12} \text{ F/m}$
Coulomb constant	$\frac{1}{4\pi\epsilon_0}$	$9 \times 10^9 \text{ N m}^2/\text{C}^2$
Faraday constant	$F$	$96485 \text{ C/mol}$
Mass of electron	$m_e$	$9.1 \times 10^{-31} \text{ kg}$
Mass of proton	$m_p$	$1.6726 \times 10^{-27} \text{ kg}$
Mass of neutron	$m_n$	$1.6749 \times 10^{-27} \text{ kg}$
Atomic mass unit	$u$	$1.66 \times 10^{-27} \text{ kg}$
Atomic mass unit	$u$	$931.49 \text{ MeV}/c^2$
Stefan-Boltzmann constant	$\sigma$	$5.67 \times 10^{-8} \text{ W/(m}^2 \text{ K}^4)$
Rydberg constant	$R_\infty$	$1.097 \times 10^7 \text{ m}^{-1}$
Bohr magneton	$\mu_B$	$9.27 \times 10^{-24} \text{ J/T}$
Bohr radius	$a_0$	$0.529 \times 10^{-10} \text{ m}$
Standard atmosphere	atm	$1.01325 \times 10^5 \text{ Pa}$
Wien displacement constant	$b$	$2.9 \times 10^{-3} \text{ m K}$

## 1.1: Vectors

Notation:  $\vec{a} = a_x \hat{i} + a_y \hat{j} + a_z \hat{k}$

Magnitude:  $a = |\vec{a}| = \sqrt{a_x^2 + a_y^2 + a_z^2}$

Dot product:  $\vec{a} \cdot \vec{b} = a_x b_x + a_y b_y + a_z b_z = ab \cos \theta$

Cross product:



$$\vec{a} \times \vec{b} = (a_y b_z - a_z b_y) \hat{i} + (a_z b_x - a_x b_z) \hat{j} + (a_x b_y - a_y b_x) \hat{k}$$

$$|\vec{a} \times \vec{b}| = ab \sin \theta$$

## 1.2: Kinematics

Average and Instantaneous Vel. and Accel.:

$$\vec{v}_{av} = \Delta \vec{r} / \Delta t$$

$$\vec{a}_{av} = \Delta \vec{v} / \Delta t$$

$$\vec{v}_{inst} = d\vec{r}/dt$$

$$\vec{a}_{inst} = d\vec{v}/dt$$

Motion in a straight line with constant  $a$ :

$$v = u + at, \quad s = ut + \frac{1}{2}at^2, \quad v^2 - u^2 = 2as$$

Relative Velocity:  $\vec{v}_{A/B} = \vec{v}_A - \vec{v}_B$

Projectile Motion:



$$x = ut \cos \theta, \quad y = ut \sin \theta - \frac{1}{2}gt^2$$

$$y = x \tan \theta - \frac{g}{2u^2 \cos^2 \theta} x^2$$

$$T = \frac{2u \sin \theta}{g}, \quad R = \frac{u^2 \sin 2\theta}{g}, \quad H = \frac{u^2 \sin^2 \theta}{2g}$$

## 1.3: Newton's Laws and Friction

Linear momentum:  $\vec{p} = m\vec{v}$

Newton's first law: inertial frame.

Newton's second law:  $\vec{F} = \frac{d\vec{p}}{dt}$ ,  $\vec{F} = m\vec{a}$

Newton's third law:  $\vec{F}_{AB} = -\vec{F}_{BA}$

Frictional force:  $f_{static, max} = \mu_s N$ ,  $f_{kinetic} = \mu_k N$

Banking angle:  $\frac{v^2}{rg} = \tan \theta$ ,  $\frac{v^2}{rg} = \frac{\mu + \tan \theta}{1 - \mu \tan \theta}$

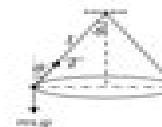
Centripetal force:  $F_c = \frac{mv^2}{r}$ ,  $a_c = \frac{v^2}{r}$

Pseudo force:  $\vec{F}_{pseudo} = -m\vec{a}_0$ ,  $F_{centrifugal} = -\frac{mv^2}{r}$

Minimum speed to complete vertical circle:

$$v_{min, bottom} = \sqrt{5gl}, \quad v_{min, top} = \sqrt{gl}$$

Conical pendulum:  $T = 2\pi \sqrt{\frac{l \cos \theta}{g}}$



## 1.4: Work, Power and Energy

Work:  $W = \vec{F} \cdot \vec{S} = FS \cos \theta$ ,  $W = \int \vec{F} \cdot d\vec{S}$

Kinetic energy:  $K = \frac{1}{2}mv^2 = \frac{p^2}{2m}$

Potential energy:  $F = -\partial U / \partial x$  for conservative forces.

$$U_{gravitational} = mgh, \quad U_{spring} = \frac{1}{2}kx^2$$

Work done by conservative forces is path independent and depends only on initial and final points:  
 $\oint \vec{F}_{conservative} \cdot d\vec{r} = 0$ .

Work-energy theorem:  $W = \Delta K$

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**S Marginson**



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**Effective Study Methods** Mason Ross, AI, 2025-02-22 Effective Study Methods explores how to learn smarter not harder by applying cognitive psychology principles to enhance retention and comprehension It challenges traditional study habits advocating for evidence based learning strategies such as active recall spaced repetition and elaborative interrogation Did you know that active recall testing yourself instead of rereading strengthens memory pathways Or that spaced repetition reviewing material at increasing intervals optimizes long term retention by leveraging the forgetting curve This book uniquely bridges academic research and practical application offering concrete techniques and personalized guidance It avoids generic advice providing actionable strategies for students and lifelong learners The book begins by laying a cognitive foundation then dedicates individual chapters to active recall spaced repetition and elaborative interrogation culminating in a cohesive study system applicable across diverse subjects It underscores that effective studying stems from employing strategies aligned with how the brain learns best The book s value lies in its structured evidence based approach drawing insights from neuroscience and information science It demonstrates how to move information from short term to long term memory creating a robust knowledge base By demonstrating techniques applicable to professional training skill development and personal enrichment the book empowers readers to become lifelong learners *Child Psychology* Robin Harwood, Scott A. Miller, Ross Vasta, 2008-01-03 This new fifth edition captures the excitement and relevance of child psychology at the beginning of the 21st century a theme that is exemplified in the text s new subtitle *Child Development in a Changing Society* In addition to extensive research coverage each chapter includes an additional section that relates the chapter subject to social and cultural contexts or implications of research for social policy public practice or societal change This new edition

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