

Units of Atomic Mass

$$1u = 1.6605 \times 10^{-27} \text{ kg} = 931.49 \frac{\text{MeV}}{c^2}$$

Binding Energy

$$BE = ((n_p m_p) + (n_n m_n)) - m_{\text{nucleus}} \times 931.49$$

Half LivesBasic Formula

$$N = N_0 \left(\frac{1}{2}\right)^{\frac{t}{t_{1/2}}}$$

Exponential Formula

$$N = N_0 \times e^{-\frac{t}{\tau}}$$

$$\tau = \frac{t_{1/2}}{\ln(2)}$$

Radioactive DecayAlpha Decay

$$\frac{A}{Z}\alpha \dots Y_{\text{new}} = \frac{A-4}{Z-2}Y$$

$$K_\alpha = \Delta E = \Delta mc^2 = (m_x - m_y - m_{He})c^2$$

Beta-Minus Decay

$$Y_{\text{new}} = \frac{A}{Z+1}Y \quad \text{Release of: } e^- + \text{energy}$$

Beta-Plus Decay

$$Y_{\text{new}} = \frac{A}{Z-1}Y \quad \text{Release of: } e^+ + \text{energy}$$

Gamma Decay

$$Y_{\text{old}} = Y_{\text{new}} \quad \text{Release of: } \gamma$$

Radiation

$$P = \frac{Q}{t} = \sigma eAT^4$$

$$\sigma = 5.68 \times 10^{-8} \frac{\text{J}}{\text{s} \cdot \text{m}^2 \cdot \text{K}^4}$$

Law of Reflection

$$\theta_{\text{incident}} = \theta_{\text{refracted}}$$

θ measured to normal 90°

$$\sin \theta_{\text{critical}} = \frac{n_2}{n_1}$$

Glasses Lenses

object/image same side ...

Nearsightedness (diverging lens, -f)

Can see objects near, but not far

$$FP = -FP \dots d_o = \infty$$

Farsightedness (converging lens, +f)

Can see objects far, but not near

$$NP = -NP \quad NP_{\text{assumed}} = 25\text{cm} = 0.25\text{m}$$

$$P = \frac{1}{f} = \frac{1}{d_o} + \frac{1}{d_i}$$

Simple Magnifier

$f > 0$, $d_o < f$: virtual, larger, upright image

$$M = \frac{\theta_{\text{subtended}}}{\theta_{\text{unaided}}}$$

Image at NP of eye or eye is **STRAINED**

$$m_{\text{max}} = 1 + \frac{N}{f}$$

Object at FP of lens or eye is **RELAXED**

$$M_{\text{max}} = \frac{N}{f}$$

$$\theta_{\text{subtended}} = \left(\frac{LM}{d_o}\right)\left(\frac{360}{2\pi}\right)$$

Polarization

$$I_i = \frac{1}{2}I_o$$

$$I_2 = I_1 \times \cos^2 \theta$$

Snell's Law of Refraction

$$\frac{\lambda_1}{\lambda_2} = \frac{v_1}{v_2} = \frac{n_2}{n_1}$$

$$n_1 \sin \theta_1 = n_2 \sin \theta_2$$

$$n_{\text{air}} = 1$$

* f_{constant} btwn mediums

* v_{constant} in same medium

* $n_{\text{high}} \rightarrow n_{\text{low}} = \text{bends away (no PC)}$

* $n_{\text{low}} \rightarrow n_{\text{high}} = \text{bends towards (phase change)}$

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Jicheng Xie



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