Physics 111 – Formula Sheet

Useful Math

$$a\,x^2 + bx + c = 0 \Rightarrow x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}, \qquad \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}, \qquad a^2 = b^2 + c^2 - 2ab\cos A, \qquad SOH\ CAH\ TOA$$

$$\tan\theta = \frac{\sin\theta}{\cos\theta}, \qquad \cos^2\theta + \sin^2\theta = 1, \qquad 1 + \tan^2\theta = \sec^2\theta$$

Vectors

$$\vec{A} = A\,\hat{A} = A_x\hat{i} + A_y\hat{j}, \qquad A = \sqrt{\vec{A}\cdot\vec{A}} = \sqrt{A_x^2 + A_y^2}, \qquad \tan\theta = \frac{A_y}{A_x}, \qquad A_x = A\cos\theta, \qquad A_y = A\sin\theta$$

$$\vec{B} = B\,\hat{B} = B_x\hat{i} + B_y\hat{j} + B_z\hat{k}, \qquad B = \sqrt{\vec{B}\cdot\vec{B}} = \sqrt{B_x^2 + B_y^2 + B_z^2}$$

$$\hat{i}\cdot\hat{i} = \hat{j}\cdot\hat{j} = \hat{k}\cdot\hat{k} = 1, \qquad \hat{i}\cdot\hat{j} = \hat{j}\cdot\hat{i} = 0, \qquad \hat{j}\cdot\hat{k} = \hat{k}\cdot\hat{j} = 0, \qquad \hat{k}\cdot\hat{i} = \hat{i}\cdot\hat{k} = 0$$

$$\vec{A}\cdot\vec{B} = AB\cos\theta = A_xB_x + A_yB_y + A_zB_z$$

$$\hat{i}\times\hat{j} = \hat{k}, \qquad \hat{j}\times\hat{k} = \hat{i}, \qquad \hat{k}\times\hat{i} = \hat{j}, \qquad \hat{i}\times\hat{i} = \hat{j}\times\hat{j} = \hat{k}\times\hat{k} = 0$$

$$\hat{j}\times\hat{i} = -\hat{k}, \qquad \hat{k}\times\hat{j} = -\hat{i}, \qquad \hat{i}\times\hat{k} = -\hat{j}$$

$$|\vec{A}\times\vec{B}| = AB\sin\theta, \qquad \vec{A}\times\vec{B} = (A_yB_z - A_zB_y)\hat{i} + (A_zB_x - A_xB_z)\hat{j} + (A_xB_y - A_yB_x)\hat{k}$$

Calculus

$$\frac{d}{dx}x^n = n\,x^{n-1}, \qquad \int x^n\,dx = \frac{1}{n+1}x^{n+1} + C, \qquad \int_a^b x^n\,dx = \frac{1}{n+1}\left(x^{n+1}\Big|_a^b\right) = \frac{1}{n+1}\left(b^{n+1} - a^{n+1}\right)$$

Kinematics

$$\Delta t = t - t_0, \qquad \Delta x = x - x_0 = x(t) - x(t_0), \qquad \vec{r} = x\hat{i} + y\hat{j} + z\hat{k}, \qquad \vec{v} = v_x\hat{i} + v_y\hat{j} + v_z\hat{k}, \qquad \vec{a} = a_x\hat{i} + a_y\hat{j} + a_z\hat{k}$$

$$\Delta\vec{r} = \Delta x\hat{i} + \Delta y\hat{j} + \Delta z\hat{k} = \vec{r} - \vec{r}_0, \qquad \bar{v}_x = \frac{\Delta x}{\Delta t}, \qquad \vec{v} = \frac{\Delta\vec{r}}{\Delta t}, \qquad \vec{v} = \frac{d\vec{r}}{dt}, \qquad \vec{a} = \frac{d\vec{v}}{dt}, \qquad \Delta\vec{r} = \int \vec{v}\,dt, \qquad \Delta\vec{v} = \int \vec{a}\,dt$$

$$\bar{v}_x = \frac{v_x + v_{0x}}{2}, \qquad \Delta x = \bar{v}_x t, \qquad \Delta x = v_{0x}t + \frac{1}{2}a_x t^2, \qquad v_x = v_{0x} + a_x t, \qquad v_x^2 = v_{0x}^2 + 2a_x\Delta x$$

$$a_{rad} = \frac{v^2}{r}, \qquad a_{tan} = \frac{dv}{dt}, \qquad a^2 = a_{tan}^2 + a_{rad}^2, \qquad \vec{v}_{ac} = \vec{v}_{ab} + \vec{v}_{bc}, \qquad \vec{v}_{ab} = -\vec{v}_{ba}$$

Forces

$$\vec{F}_{net} = \sum\vec{F} = m\vec{a} = \frac{d\vec{p}}{dt}, \qquad |F_g| = mg, \qquad |F_s| = k|x|, \qquad |F_f| = \mu|F_N|$$

Work-energy

$$W = \int_{\vec{r}_1}^{\vec{r}_2}\vec{F}\cdot d\vec{r}, \qquad K = \frac{1}{2}mv^2, \qquad U = mgy, \qquad U = \frac{1}{2}kx^2, \qquad E = K + U$$

$$\Delta K = W_{tot}, \qquad \Delta E = W_{nc}, \qquad P = \frac{dW}{dt} = \vec{F}\cdot\vec{v}$$

Momentum

$$\vec{p} = m\vec{v}, \qquad \vec{I} = \Delta\vec{p} = \int_{t_i}^{t_f}\vec{F}\,dt, \qquad \Delta\vec{p} = (m_1\vec{v}_{1f} - m_1\vec{v}_{1i}) + (m_2\vec{v}_{2f} - m_2\vec{v}_{2i}) + \ldots = \Delta\vec{p}_1 + \Delta\vec{p}_2 + \ldots$$

$$\vec{r}_{cm} = \frac{1}{M}\sum_i m_i\vec{r}_i, \qquad \vec{v}_{cm} = \frac{1}{M}\sum_i m_i\vec{v}_i$$

Rotation

$$s = r\theta, \qquad v = r\omega, \qquad a_{tan} = r\alpha, \qquad a_{rad} = r\omega^2, \qquad \omega_z = \frac{d\theta}{dt}, \qquad \alpha_z = \frac{d\omega_z}{dt}, \qquad \omega_z = \omega_{0z} + \alpha_z t, \qquad \theta = \theta_0 + \omega_{0z}t + \frac{1}{2}\alpha_z t^2$$

$$\omega_z^2 = \omega_{0z}^2 + 2\alpha_z(\theta - \theta_0), \qquad (\theta - \theta_0) = \left(\frac{\omega_z + \omega_{0z}}{2}\right)t, \qquad I = \sum_i m_i r_i^2 = \int r^2\,dm, \qquad I_p = I_{cm} + Md^2$$

$$\vec{L} = \vec{r}\times\vec{p} = I\vec{\Omega}, \qquad \vec{\tau} = \vec{r}\times\vec{F}, \qquad \tau = rF\sin\theta, \qquad \vec{\tau}_{net} = \frac{d\vec{L}}{dt} = I\vec{\alpha}, \qquad K = \frac{1}{2}I\omega^2, \qquad W = \int_{\theta_1}^{\theta_2}\tau\,d\theta, \qquad P = \tau\omega$$

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