

Calculus-Based Physics II by Jeffrey W. Schnick

$$F = k \frac{|q_1||q_2|}{r^2}$$

$$\vec{F} = q\vec{E}$$

$$E = \frac{k|q|}{r^2}$$

$$U = q\phi$$

$$\phi = Ed$$

$$W = -q\Delta\phi$$

$$\phi = \frac{kq}{r}$$

$$I = \dot{Q}$$

$$V = IR$$

$$R = \rho \frac{L}{A}$$

$$P = IV$$

$$R_s = R_1 + R_2$$

$$R_p = \frac{1}{\frac{1}{R_1} + \frac{1}{R_2}}$$

$$\mathcal{E} = \mathcal{E}_{\max} \sin(2\pi ft)$$

$$\mathcal{E}_{\text{RMS}} = \sqrt{\frac{1}{2}} \mathcal{E}_{\max}$$

$$C_s = \frac{Q}{\phi}, \quad C = \frac{Q}{V}$$

$$U = \frac{1}{2} CV^2$$

$$C = \kappa \epsilon_0 \frac{A}{d}$$

$$C_s = \frac{1}{\frac{1}{C_1} + \frac{1}{C_2}}$$

$$C_p = C_1 + C_2$$

$$\tau = RC$$

$$V = \mathcal{E}(1 - e^{-t/\tau})$$

$$V = V_s e^{-t/\tau}$$

$$I = I_s e^{-t/\tau}$$

$$\vec{\tau} = \vec{\mu} \times \vec{B}$$

$$\vec{\mu} = NI\vec{A}$$

$$\vec{F}_B = \nabla(\vec{\mu} \cdot \vec{B})$$

$$\vec{F} = I \vec{L} \times \vec{B}$$

$$\vec{F} = q \vec{v} \times \vec{B}$$

$$\vec{B} = \frac{\mu_0}{4\pi} \frac{3(\vec{r} \cdot \vec{r})\vec{r} - \vec{r}^2}{r^3}$$

$$B = \frac{\mu_0}{2\pi} \frac{I}{r}$$

$$\vec{E} = \nabla_p \times \vec{B}$$

$$\vec{B} = -\mu_0 \epsilon_0 \nabla_p \times \vec{E}$$

$$\Phi_B = \int \vec{B} \cdot d\vec{A}$$

$$\Phi_B = \vec{B} \cdot \vec{A}$$

$$|\mathcal{E}| = N \left| \dot{\Phi}_B \right|$$

$$E = \frac{1}{2\pi r} \left| \dot{\Phi}_B \right|$$

$$m\lambda = d \sin \theta$$

$$(m + \frac{1}{2}) \lambda = d \sin \theta$$

$$m\lambda = w \sin \theta$$

$$m\lambda_1 = 2t$$

$$(m + \frac{1}{2}) \lambda_2 = 2t$$

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

$$I = I_s (\cos \theta)^2$$

$$n = \frac{c}{v}$$

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

$$\sin \theta_r = \frac{n_2}{n_1}$$

$$\frac{1}{f} = \frac{1}{o} + \frac{1}{i}$$

$$M = \frac{h^*}{h}$$

$$M = -\frac{i}{o}$$

$$P = \frac{1}{f}$$

$$P = P_1 + P_2$$

$$\frac{1}{f} = (n - n_a) \left(\frac{1}{R_1} + \frac{1}{R_2} \right)$$

$$\int (\cos x) dx = \sin x$$

$$\int (\cos x)^2 dx = \frac{x}{2} + \frac{\sin 2x}{4}$$

$$\int \frac{dx}{\cos x} = \frac{1}{2} \ln \frac{1 + \sin x}{1 - \sin x}$$

$$\int \frac{dx}{(\cos x)^2} = \tan x$$

$$\int \frac{dx}{\sqrt{x^2 + a^2}} = \ln(x + \sqrt{x^2 + a^2})$$

$$\int \frac{x dx}{\sqrt{x^2 + a^2}} = \sqrt{x^2 + a^2}$$

$$\int \frac{x^2 dx}{\sqrt{x^2 + a^2}} = \frac{x}{2} \sqrt{x^2 + a^2} - \frac{a^2}{2} \ln(x + \sqrt{x^2 + a^2})$$

$$\int \frac{dx}{(x^2 + a^2)^{3/2}} = \frac{1}{a^2} \frac{x}{\sqrt{x^2 + a^2}}$$

$$\int \frac{x dx}{(x^2 + a^2)^{3/2}} = -\frac{1}{\sqrt{x^2 + a^2}}$$

$$\int \frac{x^2 dx}{(x^2 + a^2)^{3/2}} = -\frac{x}{\sqrt{x^2 + a^2}} + \ln(x + \sqrt{x^2 + a^2})$$

$$dq = \lambda dx$$

$$dE = \frac{k dq}{r^2}$$

$$d\phi = \frac{k dq}{r}$$

$$\vec{F} = -\nabla U$$

$$\vec{E} = -\nabla \phi$$

$$\Phi_E = \int \vec{E} \cdot d\vec{A}$$

$$d\vec{B} = \frac{\mu_0}{4\pi} \frac{I d\vec{l} \times \vec{r}}{r^3}$$

$$\oint \vec{E} \cdot d\vec{l} = -\dot{\Phi}_B$$

$$\oint \vec{B} \cdot d\vec{A} = 0$$

$$\oint \vec{B} \cdot d\vec{l} = \mu_0 I_{\text{enclosed}} + \mu_0 \epsilon_0 \dot{\Phi}_E$$

$$\oint \vec{E} \cdot d\vec{A} = \frac{Q_{\text{enclosed}}}{\epsilon_0}$$

$$1 \text{ e} = 1.60 \times 10^{-19} \text{ C}$$

$$k = \frac{1}{4\pi\epsilon_0}$$

$$k = 8.99 \times 10^9 \frac{\text{N} \cdot \text{m}^2}{\text{C}^2}$$

$$\epsilon_0 = 8.85 \times 10^{-12} \frac{\text{C}^2}{\text{N} \cdot \text{m}^2}$$

$$\mu_0 = 4\pi \times 10^{-7} \frac{\text{T} \cdot \text{m}}{\text{A}}$$

$$n_{\text{H}_2\text{O}} = 1.33$$

$$m_e = 9.11 \times 10^{-31} \text{ kg}$$

$$m_p = 1.6726 \times 10^{-27} \text{ kg}$$

$$c = 3.00 \times 10^8 \frac{\text{m}}{\text{s}}$$

$$N_A = 6.022 \times 10^{23} \frac{\text{particles}}{\text{mole}}$$

Mathematics For Physics With Calculus

Judd E. Hollander



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