# Cheat Sheet — Midterm 2

PHYS 142 (Summer 2014)

Constants

$$r_{\rm e} = 8.9 \times 10^{-12} \, {\rm C}^2/{\rm N} \cdot {\rm m}^2$$
  $\mu_{\rm e} = 1\pi \times 10^{-7} \, {\rm Wb/A} \cdot {\rm m}$   $g = 9.8 \, {\rm m/s}^2$   
 $e = 1.6 \times 10^{-10} \, {\rm C}$   $m_{\rm e} = 9.1 \times 10^{-10} \, {\rm kg}$   $m_{\rm e} = 1.7 \times 10^{-27} \, {\rm kg}$   $e = 3.0 \times 10^6 \, {\rm m/s}$ 

#### Charges, Corrents, and the Electromagnetic field

Forces on Changes and Corrente:

State of

$$\mathbf{F} = q(\mathbf{E} + \mathbf{\vec{v}} \times \mathbf{B})$$
  $\mathbf{F} = \int I d\mathbf{\vec{x}} \times \mathbf{B}$ 

$$F = \varphi(E + \varphi \times B)$$
  $F = \int I dI \times B$   $\Phi_{EI} = \iint_{A} E \cdot \phi_{eI} dA$   $\Phi_{EI} = \iint_{A} B \cdot \phi_{eI} dA$ 

Miles record to Expositioners.

$$\iint_{A} E \cdot \alpha \, dA = \frac{Q_{max}}{a_{0}} \qquad \iint_{A} B \cdot \alpha \, dA = 0 \qquad \oint_{C} E \cdot dI = -\frac{d\Phi_{i}a}{dt} \qquad \oint_{C} B \cdot dI = \mu_{0} I_{max} + \mu_{m} a \frac{d\Phi_{i}a}{dt}$$

Sources of Electric and Magnetic Field:

$$\vec{E} = \frac{1}{4\pi\epsilon_0}\frac{q}{r^2}\vec{r} \qquad \vec{E} = \frac{1}{4\pi\epsilon_0}\int \frac{dq}{r^2}\vec{r} \qquad \vec{B} = \frac{\mu_0}{4\pi}\frac{q\vec{E}\times\vec{F}}{r^2} \qquad \vec{B} = \frac{\mu_0}{4\pi}\int_1^2 \frac{d\vec{E}\times\vec{F}}{r^2}$$

Elbertownskie Potowskielt

$$V = \frac{1}{4\pi i a} \int \frac{dq}{r}$$
  $V_a - V_b = \int_{r}^{q} \vec{R} \cdot d\vec{l}$   $\vec{R} = -\vec{\nabla}V = -\frac{\partial Y}{\partial z}z - \frac{\partial Y}{\partial y}j - \frac{\partial Y}{\partial z}\bar{z}$ 

Electric Dipolice

Magnetic Dipoles:

$$\mu = \varphi d$$
  $\varphi = \mu \times E$   $U = -\mu \cdot E$ 

$$\vec{\mu} = IAh$$
  $\vec{r} = \vec{\mu} \times \vec{B}$   $U = -\vec{\mu} \cdot \vec{B}$ 

$$C = \frac{1}{2}\kappa_0 E^2 + \frac{1}{2\mu_0}D^2$$

$$R = \frac{m}{|a| > 0}$$

$$C = \frac{1}{2} c_0 E^2 + \frac{1}{2 c_0} D^2$$
  $R = \frac{c_0}{\log 2\delta}$   $B = \frac{c_0 J}{2 c_T} \langle w \log \rangle$   $D = g_0 n I' (solemical)$ 

#### Electrical Circuits

(Carrierate)

$$I = \frac{dQ}{dt} := a(q) \sigma_d A \qquad J = aq \theta_d \qquad \rho = \frac{E}{J} \qquad \qquad \sum_{\mathbf{k} \in \mathcal{K}} V = 0 \qquad \sum_{\mathbf{k} \in \mathcal{K} \in \mathcal{K}} J = 0 \qquad \qquad \mathcal{L} = -N \frac{d\Phi_D}{dt}$$

- 4C approximation in

$$C = \frac{Q}{V} \qquad \frac{1}{C_{eq}} = \sum_{i=1}^n \frac{1}{C_i} \; (Series) \qquad C_{eq} \approx \sum_{i=1}^n C_i \; (Parallell) \qquad U = \frac{1}{2} CV^2 = \frac{Q^2}{2C}$$

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**G Thomas** 

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