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

(Carrienate

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

- 4C approximation in

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

Mastering Physics Solutions Chapter 21

Padhraic Smyth

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Table of Contents Mastering Physics Solutions Chapter 21

- 1. Understanding the eBook Mastering Physics Solutions Chapter 21
 - The Rise of Digital Reading Mastering Physics Solutions Chapter 21
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Mastering Physics Solutions Chapter 21
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - $\circ\,$ Features to Look for in an Mastering Physics Solutions Chapter 21
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mastering Physics Solutions Chapter 21
 - Personalized Recommendations
 - $\circ\,$ Mastering Physics Solutions Chapter 21 User Reviews and Ratings
 - Mastering Physics Solutions Chapter 21 and Bestseller Lists
- 5. Accessing Mastering Physics Solutions Chapter 21 Free and Paid eBooks
 - Mastering Physics Solutions Chapter 21 Public Domain eBooks
 - Mastering Physics Solutions Chapter 21 eBook Subscription Services
 - Mastering Physics Solutions Chapter 21 Budget-Friendly Options

- 6. Navigating Mastering Physics Solutions Chapter 21 eBook Formats
 - o ePub, PDF, MOBI, and More
 - Mastering Physics Solutions Chapter 21 Compatibility with Devices
 - Mastering Physics Solutions Chapter 21 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Mastering Physics Solutions Chapter 21
 - Highlighting and Note-Taking Mastering Physics Solutions Chapter 21
 - Interactive Elements Mastering Physics Solutions Chapter 21
- 8. Staying Engaged with Mastering Physics Solutions Chapter 21
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Mastering Physics Solutions Chapter 21
- 9. Balancing eBooks and Physical Books Mastering Physics Solutions Chapter 21
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Mastering Physics Solutions Chapter 21
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Mastering Physics Solutions Chapter 21
 - Setting Reading Goals Mastering Physics Solutions Chapter 21
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mastering Physics Solutions Chapter 21
 - Fact-Checking eBook Content of Mastering Physics Solutions Chapter 21
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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