

## Electromagnetism Notes:

**Charged Particles, Conductors and Electric and Magnetic Fields – What happens to stationary and moving charged particles when they interact with an electric or magnetic field?**

Investigate and quantitatively derive and analyse the interaction between charged particles and uniform electric fields including electric field between parallel charged plates, acceleration of charged particles by the electric field, and work done on the charge.

**Electric field between parallel charged plates  $E = V/d$ :**

- Positive particles have vector fields going out of the charge
- Negative particles have vector fields going into the charge
- More vector lines = higher magnitude  $\rightarrow$  stronger field strength
- uniform electric fields are constant (vector lines equally separated)

**Equation:**

- $E$  = electric field strength
- $V$  = potential difference of charges
- $d$  = distance in metres
- e.g. Two parallel plates, separated by 5mm, are connected to terminals of 3000V DC supply. Calculate the strength of the field between them:
  - o  $E = ?$
  - o  $V = 3000$
  - o  $d = 5\text{mm} = 5 \times 10^{-3}\text{m}$
  - o  $E = V/d$
  - o  $= 3000 / 5 \times 10^{-3}$
  - o  $= 600\,000 \text{ V/m}^2$

**Acceleration of charged particles by the electric field:**

- $F_{\text{net}} = qE = qV/d = ma$
- E.g. find the acceleration of an alpha particle between two parallel plates with potential difference 3000V separated by 5mm
  - o Alpha particle charge =  $+2e = 2(1.602 \times 10^{-19}) = 3.204 \times 10^{-19} \text{ C}$
  - o  $V = 3000$
  - o  $d = 0.005$
  - o  $m = 2p^+ + 2n^0 = 2(1.675 \times 10^{-27}) + 2(1.673 \times 10^{-27}) = 6.696 \times 10^{-27} \text{ kg}$
  - o  $qV/d = ma$
  - o  $(3.204 \times 10^{-19} \times 3000) / 0.005 = a \times 6.696 \times 10^{-27}$
  - o  $a = 2.87 \times 10^{12} \text{ ms}^{-2}$

**Work done on the charge:**

- $W = qV = qEd$
- $K = \frac{1}{2}mv^2$

# Electromagnetism Study Guide Answer

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## **Electromagnetism Study Guide Answer:**

**Vector Calculus Study Guide & Solutions Manual** Karen Pao, Frederick Soon, 2003-08-22 Includes solutions to selected exercises and study hints *Study Guide for CTET Paper 2 (Class 6 - 8 Teachers) Mathematics/ Science with Past Questions* Disha Experts, 2020-02-04 *Numerical Methods in Electromagnetism* M. V.K. Chari, Sheppard Salon, 2000

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## **Table of Contents Electromagnetism Study Guide Answer**

1. Understanding the eBook Electromagnetism Study Guide Answer
  - The Rise of Digital Reading Electromagnetism Study Guide Answer
  - Advantages of eBooks Over Traditional Books
2. Identifying Electromagnetism Study Guide Answer
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Electromagnetism Study Guide Answer
  - User-Friendly Interface
4. Exploring eBook Recommendations from Electromagnetism Study Guide Answer
  - Personalized Recommendations
  - Electromagnetism Study Guide Answer User Reviews and Ratings
  - Electromagnetism Study Guide Answer and Bestseller Lists
5. Accessing Electromagnetism Study Guide Answer Free and Paid eBooks
  - Electromagnetism Study Guide Answer Public Domain eBooks
  - Electromagnetism Study Guide Answer eBook Subscription Services
  - Electromagnetism Study Guide Answer Budget-Friendly Options
6. Navigating Electromagnetism Study Guide Answer eBook Formats
  - ePub, PDF, MOBI, and More
  - Electromagnetism Study Guide Answer Compatibility with Devices
  - Electromagnetism Study Guide Answer Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Electromagnetism Study Guide Answer
  - Highlighting and Note-Taking Electromagnetism Study Guide Answer
  - Interactive Elements Electromagnetism Study Guide Answer
8. Staying Engaged with Electromagnetism Study Guide Answer

- Joining Online Reading Communities
- Participating in Virtual Book Clubs
- Following Authors and Publishers Electromagnetism Study Guide Answer
- 9. Balancing eBooks and Physical Books Electromagnetism Study Guide Answer
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Electromagnetism Study Guide Answer
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Electromagnetism Study Guide Answer
  - Setting Reading Goals Electromagnetism Study Guide Answer
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electromagnetism Study Guide Answer
  - Fact-Checking eBook Content of Electromagnetism Study Guide Answer
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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