

Following Exercise questions are **IMPORTANT!**

2.4, 2.5, 2.13, 2.14, 2.16, 2.17, 2.18, 2.19, 2.22, 2.23, 2.27, 2.28, 2.29, 2.30, 2.31

D2.1 (a). $Q_A = -20\mu C$ located at A(-6,4,7) , $Q_B = 50\mu C$ located at B(5,8,-2)
Find \vec{R}_{AB}

$$\vec{R}_{AB} = (5 - (-6))\hat{a}_x + (8 - 4)\hat{a}_y + (-2 - 7)\hat{a}_z = 11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z$$

(b). $|\vec{R}_{AB}| = \sqrt{(11)^2 + 4^2 + (-9)^2} = 14.76m$

(c). $\vec{F}_{AB} = Q_A Q_B \vec{R}_{AB} / 4\pi\epsilon_0 |\vec{R}_{AB}|^3 = (-20 \times 10^{-6} \times 50 \times 10^{-6} (11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z)) / (4\pi \times (10^{-9}/36\pi) |14.76|^3)$
 $\Rightarrow \vec{F}_{AB} = 30.76\hat{a}_x + 11.184\hat{a}_y - 25.16\hat{a}_z mN$

(d). $\vec{F}_{AB} = Q_A Q_B \vec{R}_{AB} / 4\pi\epsilon_0 |\vec{R}_{AB}|^3 = (-20 \times 10^{-6} \times 50 \times 10^{-6} (11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z)) / (4\pi \times 8.85 \times 10^{-12} |14.76|^3)$
 $\Rightarrow \vec{F}_{AB} = 30.72\hat{a}_x + 11.169\hat{a}_y - 25.13\hat{a}_z mN$

D2.2(a). $Q_A = -0.3\mu C$ located at A(25,-30,15) in cm , $Q_B = 0.5\mu C$ located at B(-10,8,12)

Find \vec{E} at the origin O(0,0,0).

Let \vec{E} at the origin is denoted by \vec{E}_o and it will be the sum of \vec{E}_A (\vec{E} due to Q_A located at point A) and \vec{E}_B (\vec{E} due to Q_B located at point B)

$$\vec{E}_A = Q_A \vec{R}_{OA} / 4\pi\epsilon_0 |\vec{R}_{OA}|^3$$

$$\vec{R}_{OA} = (0 - 25)\hat{a}_x + (0 - (-30))\hat{a}_y + (0 - 15)\hat{a}_z = (-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)cm$$

$$|\vec{R}_{OA}| = \sqrt{(-25)^2 + (30)^2 + (-15)^2} = 41.83cm$$

$$\vec{E}_A = (-0.3 \times 10^{-6}) \times (-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2} / 4\pi \times 8.85 \times 10^{-12} \times |41.83 \times 10^{-2}|^3 = -368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)$$

$$\vec{E}_B = Q_B \vec{R}_{OB} / 4\pi\epsilon_0 |\vec{R}_{OB}|^3$$

$$\vec{R}_{OB} = (0 - (-10))\hat{a}_x + (0 - 8)\hat{a}_y + (0 - 12)\hat{a}_z = (10\hat{a}_x - 8\hat{a}_y - 12\hat{a}_z)cm$$

$$|\vec{R}_{OB}| = \sqrt{(10)^2 + (-8)^2 + (-12)^2} = 17.55cm$$

$$\vec{E}_B = (0.5 \times 10^{-6}) \times (10\hat{a}_x - 8\hat{a}_y - 12\hat{a}_z) \times 10^{-2} / 4\pi \times 8.85 \times 10^{-12} \times |17.55 \times 10^{-2}|^3 = 8317.36(10\hat{a}_x - 8\hat{a}_y - 12\hat{a}_z)$$

$$\vec{E}_o = \vec{E}_A + \vec{E}_B = (-368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)) + 8317.36(10\hat{a}_x - 8\hat{a}_y - 12\hat{a}_z) = (92.3\hat{a}_x - 77.6\hat{a}_y - 94.2\hat{a}_z)KV/m$$

(b). Find \vec{E} at the point P(15,20,50).

It is the same as part(a) but this time we have to calculate \vec{R}_{PA} and \vec{R}_{PB} and the rest of the problem is similar to part(a)

D2.3 (a).

$$\Sigma_0^5 ((1 + (-1)^m) / (m^2 + 1)) = (1 + (-1)^0) / (0^2 + 1) + (1 + (-1)^1) / (1^2 + 1) + (1 + (-1)^2) / (2^2 + 1) + (1 + (-1)^3) / (3^2 + 1) + (1 + (-1)^4) / (4^2 + 1) + (1 + (-1)^5) / (5^2 + 1) = 2 + 0 + 2/5 + 0 + 2/17 + 0 = 2.52$$

(b). Similar to the part(a)

D2.4 (a). $0.1 \leq (|x|, |y|, |z|) \leq 0.2$, given ranges of x,y and z co-ordinates doesnot constitute a cubical volume so $dv = 0 \Rightarrow Q = \int_{vol} \rho_v dv = 0$

(b). Differential volume in cylindrical co-ordinates is given by $dv = \rho d\rho d\phi dz$, we have $Q = \int_{vol} \rho_v dv$

$$\Rightarrow Q = \int_{vol} (\rho^2 z^2 \sin(0.6)\phi) \rho d\rho d\phi dz = \int_0^{0.1} \int_0^{2\pi} \int_0^{0.2} (\rho^2 z^2 \sin(0.6)\phi) \rho d\rho d\phi dz = \int_0^{0.1} \rho^2 d\rho \int_0^{2\pi} (\sin(0.6)\phi) d\phi \int_0^{0.2} z^2 dz$$

$$\Rightarrow Q = [\rho^3/4]_0^{0.1} \times [(-\cos(0.6\phi))/0.6]_0^{2\pi} \times [z^3/3]_0^{0.2} = [(0.1)^3/4] \times [(-\cos(108^\circ) - (-\cos(0)))/0.6] \times [(64 - 8)/3]$$

$$\Rightarrow Q = [(0.1)^3/4] \times [(1.31)/0.6] \times [56/3] = 1.018mC$$

¹This document is prepared in L^AT_EX. (Email: ahmadsajjad01@com.net.pk)

Engineering Electromagnetics Drill Problems Solutions

Chapter

Xiaolong Qi



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Table of Contents Engineering Electromagnetics Drill Problems Solutions Chapter

1. Understanding the eBook Engineering Electromagnetics Drill Problems Solutions Chapter
 - The Rise of Digital Reading Engineering Electromagnetics Drill Problems Solutions Chapter
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Electromagnetics Drill Problems Solutions Chapter
 - 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 Engineering Electromagnetics Drill Problems Solutions Chapter
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Electromagnetics Drill Problems Solutions Chapter
 - Personalized Recommendations
 - Engineering Electromagnetics Drill Problems Solutions Chapter User Reviews and Ratings
 - Engineering Electromagnetics Drill Problems Solutions Chapter and Bestseller Lists
5. Accessing Engineering Electromagnetics Drill Problems Solutions Chapter Free and Paid eBooks
 - Engineering Electromagnetics Drill Problems Solutions Chapter Public Domain eBooks
 - Engineering Electromagnetics Drill Problems Solutions Chapter eBook Subscription Services

- Engineering Electromagnetics Drill Problems Solutions Chapter Budget-Friendly Options
- 6. Navigating Engineering Electromagnetics Drill Problems Solutions Chapter eBook Formats
 - ePub, PDF, MOBI, and More
 - Engineering Electromagnetics Drill Problems Solutions Chapter Compatibility with Devices
 - Engineering Electromagnetics Drill Problems Solutions Chapter Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Engineering Electromagnetics Drill Problems Solutions Chapter
 - Highlighting and Note-Taking Engineering Electromagnetics Drill Problems Solutions Chapter
 - Interactive Elements Engineering Electromagnetics Drill Problems Solutions Chapter
- 8. Staying Engaged with Engineering Electromagnetics Drill Problems Solutions Chapter
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Engineering Electromagnetics Drill Problems Solutions Chapter
- 9. Balancing eBooks and Physical Books Engineering Electromagnetics Drill Problems Solutions Chapter
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Engineering Electromagnetics Drill Problems Solutions Chapter
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Engineering Electromagnetics Drill Problems Solutions Chapter
 - Setting Reading Goals Engineering Electromagnetics Drill Problems Solutions Chapter
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Engineering Electromagnetics Drill Problems Solutions Chapter
 - Fact-Checking eBook Content of Engineering Electromagnetics Drill Problems Solutions Chapter
 - 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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