Solution to the Drill problems of chapter 02 (Engineering Electromagnetics, Hayt, A. Buck 7th ed) BEE 4A.4B & 4C

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 Ran

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

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

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

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

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  $\vec{E}_{\alpha}$  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)

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

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

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

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

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

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

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

 $\vec{E}_B = (0.5 \times 10^{-6}) \times (-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2}/4\pi \times 8.85 \times 10^{-12} \times |17.55 \times 10^{-2}|^3 = 8317.36(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)$  $\vec{E}_{\alpha} = \vec{E}_{A} + \vec{E}_{B} = (-368.55(-25\hat{a}_{x} + 30\hat{a}_{y} - 15\hat{a}_{z})) + 8317.36(10\hat{a}_{x} - 8\hat{a}_{y} - 12\hat{a}_{z}) = (92.3\hat{a}_{x} - 77.6\hat{a}_{y} - 94.2\hat{a}_{z})KV/m$ 

(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).

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

(b). Similar to the part(a)

D2.4 (a). 0.1 ≤ (| x |, | y |, | z |) ≤ 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  $Q = \int_{vol} \rho_v dv$ 

 $\begin{array}{l} \Rightarrow Q = \int_{-\pi} (\rho^2 z^2 \sin(0.6)\phi) \rho d\rho d\phi dz = \int_0^{0.1} \int_0^\pi \int_2^4 (\rho^2 z^2 \sin(0.6)\phi) \rho d\rho d\phi dz = \int_0^{0.1} \rho^3 d\rho \int_0^\pi (\sin(0.6)\phi) d\phi \int_2^4 dz \\ \Rightarrow Q = \mid \rho^3/4\mid_0^{0.1} \times \mid (-\cos(0.6\phi))/0.6\mid_0^5 \times \mid z\mid_2^4 = \mid (0.1)^4/4\mid \times \mid (-\cos(108^0) - (-\cos(0)))/0.6\mid \times \mid (64-8)/3\mid Q = \mid (0.1)^4/4\mid \times \mid (1.31)/0.6\mid \times \mid 56/3\mid = 1.018mC \end{array}$ 

<sup>&</sup>lt;sup>b</sup>This document is prepared in BTEN. (Email: ahmadsajjad01@cut.net.pk)

# **Engineering Electromagnetics Drill Solution**

William Hart Hayt, John A. Buck

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## **Table of Contents Engineering Electromagnetics Drill Solution**

- 1. Understanding the eBook Engineering Electromagnetics Drill Solution
  - The Rise of Digital Reading Engineering Electromagnetics Drill Solution
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Engineering Electromagnetics Drill Solution
  - Exploring Different Genres
  - o 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 Solution
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Engineering Electromagnetics Drill Solution
  - Personalized Recommendations
  - Engineering Electromagnetics Drill Solution User Reviews and Ratings
  - Engineering Electromagnetics Drill Solution and Bestseller Lists

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