

**¹ 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 \vec{R}_{AB}

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

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

$$(c). F_{AB} = Q_A Q_B \vec{R}_{AB} / 4\pi\epsilon_0 \quad |\vec{R}_{AB}|^2 = (-20 \times 10^{-6} \times 50 \times 10^{-6} (11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z)) / (4\pi \times (10^{-9}/36\pi) \times 14.76)^2 \\ \Rightarrow F_{AB} = 30.76\hat{a}_x + 11.184\hat{a}_y - 25.166\hat{a}_z \text{mN}$$

$$(d). F_{AB} = Q_A Q_B \vec{R}_{AB} / 4\pi\epsilon_0 \quad |\vec{R}_{AB}|^2 = (-20 \times 10^{-6} \times 50 \times 10^{-6} (11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z)) / (4\pi \times 8.85 \times 10^{-12} \times 14.76)^2 \\ \Rightarrow F_{AB} = 30.72\hat{a}_x + 11.169\hat{a}_y - 25.133\hat{a}_z \text{mN}$$

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)

$$E_A = Q_A R_{OA} / 4\pi\epsilon_0 \quad |R_{OA}|^2$$

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

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

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

$$E_B = Q_B R_{OB} / 4\pi\epsilon_0 \quad |R_{OB}|^2$$

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

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

$$E_B = (0.5 \times 10^{-6}) \times (-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z) \times 10^{-2} / 4\pi \times 8.85 \times 10^{-12} \times |17.55 \times 10^{-2}|^2 = 8317.36(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)$$

$$E_o = E_A + E_B = (-368.55(-25\hat{a}_x + 30\hat{a}_y - 15\hat{a}_z)) + 8317.36(10\hat{a}_x - 8\hat{a}_y - 12\hat{a}_z) = (92.3\hat{a}_x - 77.6\hat{a}_y - 94.2\hat{a}_z)\text{KV/m}$$

(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 R_{PA} and R_{PB} and the rest of the problem is similar to part(a)

D2.3 (a).

$$\Sigma_n^{\infty} ((1 + (-1)^n) / (m^2 + 1)) = (1 + (-1)^0) / (0^2 + 1) + (1 + (-1)^1) / (1^2 + 1) + (1 + (-1)^2) / (2^2 + 1) + (1 + (-1)^3) / (3^2 + 1) + (1 + (-1)^4) / (4^2 + 1) + (1 + (-1)^5) / (5^2 + 1) = 2 + 0 + 2/5 + 0 + 2/17 + 0 = 2.52$$

(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 does not 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 $Q = \int_{vol} \rho_v dv$

$$\Rightarrow Q = \int_{vol} (\rho^2 z^2 \sin(0.6)\phi) \rho d\rho d\phi dz = \int_0^{0.1} \int_0^{\pi} \int_0^z (\rho^2 z^2 \sin(0.6)\phi) \rho d\rho d\phi dz = \int_0^{0.1} \rho^3 d\rho \int_0^z (\sin(0.6)\phi) d\phi \int_0^z dz$$

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

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

¹This document is prepared in L^AT_EX. (Email: ahmedsaifjado101@ciit.net.pk)

Drill Problems Solution Of Engineering

Electromagnetics 7th

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Energy Research Programs, 1980 Geophysics, the Leading Edge of Exploration, 1992-07 **Aerospace America**

, 1997 **Organization and Members** National Academy of Sciences (U.S.), 1975 Medicine Meets Virtual Reality 22 J.D. Westwood, S.W. Westwood, L. Felländer-Tsai, 2016-04-19 In the early 1990s a small group of individuals recognized how virtual reality VR could transform medicine by immersing physicians students and patients in data more completely. Technical obstacles delayed progress but VR is now enjoying a renaissance with breakthrough applications available for healthcare. This book presents papers from the Medicine Meets Virtual Reality 22 conference held in Los Angeles California USA in April 2016. Engineers physicians scientists educators students industry military and futurists participated in its creative mix of unorthodox thinking and validated investigation. The topics covered include medical simulation and modeling imaging and visualization robotics haptics sensors physical and mental rehabilitation tools and more. Providing an overview of the state of the art this book will interest all those involved in medical VR and in innovative healthcare generally.

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