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}_{α} 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)

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

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

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

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

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

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

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

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

(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 $Q = \int_{vol} \rho_v dv$

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

^bThis document is prepared in BTEN. (Email: ahmadsajjad01@cut.net.pk)

Joacim Rocklöv

Whispering the Secrets of Language: An Emotional Journey through **Engineering Electromagnetics Hayt Drill Problems**Solutions

In a digitally-driven earth where monitors reign great and quick interaction drowns out the subtleties of language, the profound strategies and psychological nuances concealed within phrases frequently move unheard. However, set within the pages of **Engineering Electromagnetics Hayt Drill Problems Solutions** a charming literary treasure pulsing with organic feelings, lies an exceptional quest waiting to be undertaken. Written by a skilled wordsmith, this wonderful opus invites visitors on an introspective journey, softly unraveling the veiled truths and profound impact resonating within ab muscles fabric of each word. Within the emotional depths with this moving evaluation, we shall embark upon a genuine exploration of the book is key subjects, dissect their captivating publishing style, and fail to the strong resonance it evokes heavy within the recesses of readers hearts.

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