

Engineering Electromagnetics Drill Problems Solution

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D2.1 (a). $Q_A = -20\mu\text{C}$ located at $A(-6,4,7)$, $Q_B = 50\mu\text{C}$ located at $B(5,8,-2)$ Find R_{AB} $R_{AB} = (5 - (-6))\hat{a}_x + (8 - 4)\hat{a}_y + (-2 - 7)\hat{a}_z = 11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z$ (b). $|R_{AB}| = \sqrt{(11)^2 + 4^2 + (-9)^2} = 14.76\text{m}$ (c). $F_{AB} = Q_A Q_B R_{AB} / 4\pi\epsilon_0 |R_{AB}|^3$

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D5.1 (a). $J = 10\rho^2 \hat{a}_\rho - 4\rho \cos 2\phi \hat{a}_\phi$ mA/m², $P(\rho = 3, \phi = 30^\circ, z = 2) \Rightarrow (J)(\rho=3, \phi=30^\circ, z=2)$

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$= 10 \times 3 \times 2 \hat{\rho} - 4 \times 3 \times (\cos 30^\circ) \hat{a}_\phi = (18 \hat{\rho} - 9 \hat{a}_\phi) \text{ mA/m}^2$ (b). we have $I = J \cdot dS$,
 $dS = \rho d\phi dz \hat{\rho} \Rightarrow I = (10\rho \hat{z} - 4\rho \cos 2\phi \hat{\phi}) \cdot$

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D1.1 (a). $R \cdot M \cdot N = N(3, -3, 0) - M(-1, 2, 1) = (4, -5, -1) = 4\hat{x} - 5\hat{y} - \hat{z}$ (b). $R \cdot M \cdot P = P(-2, -3, -4) - M(-1, 2, 1) = (-1, -5, -5)$

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EE08.SOLUTIONS DRILL PROBLEMS 3 D3.1 (a) Evaluate the triple volume integral to find the total volume enclosed by the portion of sphere / surface and then just multiply it with the given charge to find the total charge within it: $\int_V \rho \, dV = \int_0^{\pi/2} \int_0^{2\pi} \int_0^R \rho \, r^2 \sin\theta \, dr \, d\theta \, d\phi = 1.8 \times 10^{-6} \text{ C} = 1.8 \mu\text{C}$ (b) surface encloses the whole charge q , so answer is $60 \mu\text{C}$ (c) Only the upper half of the flux lines

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pass through the plane at $z = 26$ cm, so $D = 0.5 \times \dots$

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1.1. Given the vectors $M = -10a_x + 4a_y - 8a_z$ and $N = 8a_x + 7a_y - 2a_z$, find: a) a unit vector in the direction of $-M + 2N$. $-M + 2N = 10a_x - 4a_y + 8a_z + 16a_x + 14a_y - 4a_z = (26, 10, 4)$

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D4.1 (a). $E = (1/z^2)(8xyz\hat{x} + 4x^2z\hat{y} - 4x^2y\hat{z})$ V/m, $Q = 6$ nC, $|dL| = 2\mu\text{m}$, $P(2, -2, 3) \hat{a}_L = (-6/7)\hat{a}_x + (3/7)\hat{a}_y + (2/7)\hat{a}_z$, Find $dW/dL = \hat{a}_L \cdot |dL| = 2 \times 10^{-6} ((-6/7)\hat{a}_x + (3/7)\hat{a}_y + (2/7)\hat{a}_z) \cdot ((-12/7)\hat{a}_x + (6/7)\hat{a}_y +$

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