

Engineering Electromagnetics Drill 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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D1.1 (a). $R_{MN} = N(3, -3, 0) - M(-1, 2, 1) = (4, -5, -1) = 4\hat{a}_x - 5\hat{a}_y - \hat{a}_z$ (b). $R_{MP} = P(-2, -3, -4) - M(-1, 2, 1) = (-1, -5, -5)$

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D5.1 (a). $J = 10\rho^2 \hat{a}_\rho - 4\rho \cos^2 \phi \hat{a}_\phi$ mA/m², $P(\rho = 3, \phi = 30^\circ, z = 2) \Rightarrow (J)(\rho=3, \phi=30^\circ, z=2) = 10 \times 3^2 \times 2 \hat{a}_\rho - 4 \times 3 \times (\cos 30^\circ)^2 \hat{a}_\phi = (180\hat{a}_\rho - 9\hat{a}_\phi)$ mA/m² (b). we have $l = J \cdot dS$, $dS = \rho d\phi dz \hat{a}_\rho \Rightarrow l = (10\rho^2 \hat{a}_\rho - 4\rho \cos^2 \phi \hat{a}_\phi) \cdot$

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

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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: $\int_0^{2\pi} \int_0^\pi \int_0^R r^2 \sin\theta dr d\theta d\phi = 1.8 \times 10^{-6} = 1.8 \mu\text{C}$ (b) surface encloses the whole charge q , so answer is $60 \mu\text{C}$ (c) Only the upper half of the flux lines

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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a) Before the hemispheres are assembled, there is no dielectric and thus, the two charges are in free space. The charge is centered at the origin and the other charge is at a distance R from the origin.. The charge can be treated as a point charge for the condition .. The direction of the force is since the force is repulsive force directed from to .. The expression for the force between the ...

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