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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 \mathbf{R}_{AB} $\mathbf{R}_{AB} = (5 - (-6))\hat{a}_x + (8 - 4)\hat{a}_y + (-2 - 7)\hat{a}_z = 11\hat{a}_x + 4\hat{a}_y - 9\hat{a}_z$ (b). $|\mathbf{R}_{AB}| = \sqrt{(11)^2 + 4^2 + (-9)^2} = 14.76\text{m}$ (c). $F_{AB} = \frac{Q_A Q_B}{4\pi\epsilon_0 |\mathbf{R}_{AB}|^3}$

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

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 $-20 \times 10^{-6} \text{ C} \times 50 \times 10^{-6} \text{ C} \times 8.854 \times 10^{-12} \text{ F/m}$ (14.762 ... William
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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)
($\rho=3, \phi=30^\circ, z=2$) = $10 \times 3^2 \times 2 \hat{a}_\rho - 4 \times 3 \times (\cos 30^\circ)^2 \hat{a}_\phi = (180 \hat{a}_\rho -$

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$9 \hat{\phi}$ mA/m² (b). we have $I = \int \mathbf{J} \cdot d\mathbf{S}$, $d\mathbf{S} = \rho d\phi dz \hat{\rho} \Rightarrow I = (10\rho^2 z \hat{\rho} - 4\rho \cos 2\phi \hat{\phi}) \cdot$

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D4.1 (a). $E = (1/z^2)(8xyz \hat{x} + 4x^2 z \hat{y} - 4x^2 y \hat{z})$ 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 $dW = \hat{a}_L \cdot dL = 2 \times 10^{-6} ((-6/7) \hat{a}_x + (3/7) \hat{a}_y + (2/7) \hat{a}_z) = ((-12/7) \hat{a}_x + (6/7) \hat{a}_y +$

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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: $\frac{4}{3}\pi R^3 \times \rho = 0.260 \times 10^{-6} = 2.6 \times 10^{-7} \text{ C}$ (b) This 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 $z = 26 \text{ cm}$, 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

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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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