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

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$$\begin{aligned} & \text{Electromagnetics} = \\ & 30.78 \text{ mN} + 11.195 \text{ mN} \\ & - 25.18 \text{ mN} \quad \text{(d) FBA} \\ & = -20 \times 10^{-6} \text{ N} \times \\ & 10^{-6} \text{ m} \\ & \times 8.854 \times 10^{-12} \end{aligned}$$

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D5.1 (a). $J = 10\rho^2 \hat{z} - 4\rho \cos 2\phi \hat{\phi}$ mA/m², P ($\rho = 3$, $\phi = 30^\circ$, $z = 2$) \Rightarrow (J) ($\rho=3, \phi=30^\circ, z=2$) = $10 \times 3^2 \times \hat{z} - 4 \times 3 \times (\cos 30^\circ) \hat{\phi} = (18\hat{z} - 9\hat{\phi})$ mA/m² (b). we have $I = J \cdot dS$, $dS = \rho d\phi dz \hat{\rho} \Rightarrow I = (10\rho^2 \hat{z} - 4\rho \cos 2\phi \hat{\phi}) \cdot$

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

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$$\mathbf{y} + (2/7)^{\wedge} a z) =$$
$$((-12/7)^{\wedge} a x + (6/7)^{\wedge} a$$
$$y +$$

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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

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to find the total change
within it: $\int_V \rho \, dV$

$$\int_V \rho \, dV = \int_0^{0.26} \int_0^{0.26} \int_0^{0.26} 1.8 \times 10^{-12} \, dx \, dy \, dz$$

$0.26 \times 0.26 \times 0.26 \times 1.8 \times 10^{-12} = 7.5 \times 10^{-13} \text{ C}$ (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

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$M = -10a_x + 4a_y - 8a_z$ 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

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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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