

## Engineering Electromagnetics Drill Problems Solutions Chapter 2

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

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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 change within it:  $\int \rho \, dV = 1.8 \times 10^{-6} \times \frac{4}{3}\pi(0.26)^3 = 7.5 \times 10^{-6} \text{ C}$  (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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D5.1 (a).  $J = 10\rho^2 z \hat{\rho} - 4\rho \cos^2 \phi \hat{\phi}$  mA/m<sup>2</sup>,  $P(\rho = 3, \phi = 30^\circ, z = 2) \Rightarrow (J)(\rho=3, \phi=30^\circ, z=2) = 10 \times 3^2 \times 2 \hat{\rho} - 4 \times 3 \times (\cos 30^\circ)^2 \hat{\phi} = (180 \hat{\rho} - 9 \hat{\phi})$  mA/m<sup>2</sup> (b). we have  $I = \int \cdot dS$ ,  $dS = \rho d\phi dz \hat{\rho} \Rightarrow I = (10\rho^2 z \hat{\rho} - 4\rho \cos^2 \phi \hat{\phi}) \cdot$

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

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