

## Solutions Of Drill Problems Engineering Electromagnetics

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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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D3.2 (a).  $D = ?$  at point  $P(2,-3,6)$   $Q_A = 55\text{mC}$  at point  $Q(-2,3,-6)$  now  $D = \epsilon_0 E = Q R_{PQ} / (4\pi |R_{PQ}|^3)$   $R_{PQ} = (2 - (-2))\hat{a}_x + (-3 - 3)\hat{a}_y + (6 - (-6))\hat{a}_z = 4\hat{a}_x - 6\hat{a}_y + 12\hat{a}_z$

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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:  $\int_0^{2\pi} \int_0^{2\pi} \int_0^{0.26} 0.26 \rho^2 \sin\theta \, d\rho \, d\theta \, d\phi = 1.8 \times 10^{-8} = 7.5 \times 10^{-8} \text{C}$  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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D4.1 (a).  $E = (1/z^2)(8xyz\hat{x} + 4x^2z\hat{y} - 4x^2y\hat{z})V/m$ ,  $Q = 6nC$ ,  $|dL| = 2\mu m$ ,  $P(2, -2, 3)$   $\hat{a}_L = (-6/7)\hat{a}_x + (3/7)\hat{a}_y + (2/7)\hat{a}_z$ , Find  $dW/dL = \hat{a}_L \cdot |dL| = 2 \times 10^{-6} ((-6/7)\hat{a}_x + (3/7)\hat{a}_y + (2/7)\hat{a}_z) = ((-12/7)\hat{a}_x + (6/7)\hat{a}_y +$

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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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