

## Solutions Of Drill Problems Engineering Electromagnetics

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### Solutions Of Drill Problems Engineering

D2.1 (a).  $Q A = -20\mu C$  located at  $A(-6,4,7)$ ,  $Q B = 50\mu C$  located at  $B(5,8,-2)$  Find  $R A B R A B = (5 - (-6))\hat{x} + (8 - 4)\hat{y} + (-2 - 7)\hat{z} = 11\hat{x} + 4\hat{y} - 9\hat{z}$  (b).  $|R A B| = \sqrt{(11)^2 + 4^2 + (-9)^2} = 14.76m$  (c).  $F A B = Q A Q B R A B / 4\pi\epsilon_0 |R A B|^3$

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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).  $R M P = P(-2, -3, -4) - M(-1, 2, 1) = (-1, -5, ...$

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D3.2 (a).  $D = 7$  at point  $P(2,-3,6)$   $Q A = 55mC$  at point  $Q(-2,3,-6)$  now  $D = o E = Q R P Q / (4\pi |R P Q|^3) R P Q = (2 - (-2))\hat{x} + (-3 - 3)\hat{y} + (6 - 6)\hat{z} = 4\hat{x} - 6\hat{y}$

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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 change within it:  $\int_V \rho dV = \int_0^{2\pi} \int_0^{2\pi} \int_0^{0.26} 0.26 \rho r^2 \sin\theta dr d\theta d\phi = 1.8 \times 10^{-6} = 7.5 \mu C$  (b) This surface encloses the whole charge  $q$ , so answer is  $60 \mu C$  (c) Only the upper half of the flux lines pass through the plane at  $z = 26$  cm, so  $D = 0.5 \times 10^{-6} = 7.5 \mu C$

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D4.1 (a).  $E = (1/z^2)(8xz\hat{x} + 4x^2z\hat{y} - 4xz^2\hat{z}) V/m$ ,  $Q = 6nC$ ,  $dL = 2\mu m$ ,  $P(2, -2, 3)$   $L = (-6/7)\hat{x} + (3/7)\hat{y} + (2/7)\hat{z}$ . Find  $dW dL = \vec{E} \cdot \vec{L} dL = 2 \times 10^{-6} ((-6/7)\hat{x} + (3/7)\hat{y} + (2/7)\hat{z}) \cdot ((-12/7)\hat{x} + (6/7)\hat{y} + (4/7)\hat{z}) = (-12/7)\hat{x} \cdot (-12/7)\hat{x} + (6/7)\hat{y} \cdot (6/7)\hat{y} + (4/7)\hat{z} \cdot (4/7)\hat{z} = (144/49) + (36/49) + (16/49) = 196/49 = 4$

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1.1. Given the vectors  $M = -10\hat{x} + 4\hat{y} - 8\hat{z}$  and  $N = 8\hat{x} + 7\hat{y} - 2\hat{z}$ , find: a) a unit vector in the direction of  $-M + 2N$ .  $-M + 2N = 10\hat{x} - 4\hat{y} + 8\hat{z} + 16\hat{x} + 14\hat{y} - 4\hat{z} = (26, 10, 4)$

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