

DRILL PROBLEMS : CHAPTER 2

D2.1

$$(a) \quad \mathbf{R}_{AB} = (5+6) \mathbf{a}_x + (8-4) \mathbf{a}_y + (-2-7) \mathbf{a}_z = 11\mathbf{a}_x + 4\mathbf{a}_y - 9\mathbf{a}_z$$

$$(b) \quad R_{AB} = \sqrt{11^2 + 4^2 + 9^2} = 14.76 \text{ m}$$

$$(c) \quad F_{BA} = \frac{(-20 \times 10^{-6})(50 \times 10^{-6})}{4\pi \left(\frac{10^{-9}}{36\pi} \right) (14.76^2)} \mathbf{a}_{BA} = -0.0413 \frac{(-11\mathbf{a}_x - 4\mathbf{a}_y + 9\mathbf{a}_z)}{14.76} = 30.78\mathbf{a}_x + 11.19\mathbf{a}_y - 25.18\mathbf{a}_z \text{ mN}$$

$$(d) \quad F_{BA} = \frac{(-20 \times 10^{-6})(50 \times 10^{-6})}{4\pi \times 8.854 \times 10^{-12} (14.76^2)} \mathbf{a}_{BA} = -0.04125 \frac{(-11\mathbf{a}_x - 4\mathbf{a}_y + 9\mathbf{a}_z)}{14.76} = 30.74\mathbf{a}_x + 11.18\mathbf{a}_y - 25.15\mathbf{a}_z \text{ mN}$$

D2.2

$$(a) \quad \mathbf{r} - \mathbf{r}_A = -25\mathbf{a}_x + 30\mathbf{a}_y - 15\mathbf{a}_z, \quad |\mathbf{r} - \mathbf{r}_A| = 41.43$$

$$\mathbf{r} - \mathbf{r}_B = 10\mathbf{a}_x - 8\mathbf{a}_y - 12\mathbf{a}_z, \quad |\mathbf{r} - \mathbf{r}_B| = 17.54$$

$$E_A = -1.57 \frac{(-25\mathbf{a}_x + 30\mathbf{a}_y - 15\mathbf{a}_z)}{41.43} = 9480\mathbf{a}_x - 11300\mathbf{a}_y + 5600\mathbf{a}_z$$

$$E_B = 14.61 \frac{(10\mathbf{a}_x - 8\mathbf{a}_y - 12\mathbf{a}_z)}{17.54} = 83300\mathbf{a}_x - 66600\mathbf{a}_y - 99900\mathbf{a}_z$$

$$E_T = E_A + E_B = 9248\mathbf{a}_x - 77.9\mathbf{a}_y - 94.3\mathbf{a}_z \frac{\text{kV}}{\text{m}}$$

$$(b) \quad \mathbf{r} - \mathbf{r}_A = -10\mathbf{a}_x + 50\mathbf{a}_y + 35\mathbf{a}_z, \quad |\mathbf{r} - \mathbf{r}_A| = 61.84$$

$$\mathbf{r} - \mathbf{r}_B = 25\mathbf{a}_x + 12\mathbf{a}_y + 38\mathbf{a}_z, \quad |\mathbf{r} - \mathbf{r}_B| = 47.04$$

$$E_A = -7050 \frac{(-10\mathbf{a}_x + 50\mathbf{a}_y + 35\mathbf{a}_z)}{61.84} = 1140\mathbf{a}_x - 5700\mathbf{a}_y - 3990\mathbf{a}_z$$

$$E_B = 20300 \frac{(25\mathbf{a}_x + 12\mathbf{a}_y + 38\mathbf{a}_z)}{47.04} = 10700\mathbf{a}_x + 5180\mathbf{a}_y + 16400\mathbf{a}_z$$

$$E_T = E_A + E_B = 1184\mathbf{a}_x - 52\mathbf{a}_y + 1241\mathbf{a}_z \frac{\text{kV}}{\text{m}}$$

D2.3

$$(a) \quad \text{Sum} = 2 + 0 + \frac{2}{5} + 0 + \frac{2}{17} + 0 = 2.517$$

$$(b) \quad \text{Sum} = \frac{1.1}{11.18} + \frac{1.01}{22.62} + \frac{1.001}{46.05} + \frac{1.0001}{89.44} = 0.1755$$



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RC Schank



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