

DRILL PROBLEMS : CHAPTER 2

D2.1

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

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

$$(c) \quad F_{BA} = \frac{(-20 \times 10^{-6})(50 \times 10^{-6})}{4\pi \frac{(10^{-9})}{36\pi} (14.76^2)} a_{BA} = -0.0413 \frac{(-11a_x - 4a_y + 9a_z)}{14.76} = 30.78a_x + 11.19a_y - 25.18a_z \text{ mN}$$

$$(d) \quad F_{BA} = \frac{(-20 \times 10^{-6})(50 \times 10^{-6})}{4\pi \times 8.854 \times 10^{-12} (14.76^2)} a_{BA} = -0.04125 \frac{(-11a_x - 4a_y + 9a_z)}{14.76} = 30.74a_x + 11.18a_y - 25.15a_z \text{ mN}$$

D2.2

$$(a) \quad \mathbf{r} - \mathbf{r}_A = -25a_x + 30a_y - 15a_z, \quad |\mathbf{r} - \mathbf{r}_A| = 41.43$$

$$\mathbf{r} - \mathbf{r}_B = 10a_x - 8a_y - 12a_z, \quad |\mathbf{r} - \mathbf{r}_B| = 17.54$$

$$E_A = -1.57 \frac{(-25a_x + 30a_y - 15a_z)}{41.43} = 9480a_x - 11300a_y + 5600a_z$$

$$E_B = 14.61 \frac{(10a_x - 8a_y - 12a_z)}{17.54} = 83300a_x - 66600a_y - 99900a_z$$

$$E_T = E_A + E_B = 9248a_x - 77.9a_y - 94.3a_z \frac{\text{kV}}{\text{m}}$$

$$(b) \quad \mathbf{r} - \mathbf{r}_A = -10a_x + 50a_y + 35a_z, \quad |\mathbf{r} - \mathbf{r}_A| = 61.84$$

$$\mathbf{r} - \mathbf{r}_B = 25a_x + 12a_y + 38a_z, \quad |\mathbf{r} - \mathbf{r}_B| = 47.04$$

$$E_A = -7050 \frac{(-10a_x + 50a_y + 35a_z)}{61.84} = 1140a_x - 5700a_y - 3990a_z$$

$$E_B = 20300 \frac{(25a_x + 12a_y + 38a_z)}{47.04} = 10700a_x + 5180a_y + 16400a_z$$

$$E_T = E_A + E_B = 1184a_x - 52a_y + 1241a_z \frac{\text{kV}}{\text{m}}$$

D2.3

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

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



Electromagnetic Wave Theory Solution Manual

H Kauffman



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