

DRILL PROBLEMS : CHAPTER 2

D2.1

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

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

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

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

D2.2

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

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

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

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

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

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

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

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

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

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

D2.3

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

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



Solution Manual For Mathematical Foundations For Electromagnetic

R Barnett



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web dates are based on the gregorian calendar times adjusted for dst if applicable current year is highlighted the seasons calculator shows the times and dates of vernal spring autumnal fall equinoxes and summer and winter solstices all over the world

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web summer is one of the four seasons it is the hottest season of the year in some places summer is the wettest season with the most rain and in other places it is a dry season four seasons are found in areas which are not too hot or too cold