ELECTROMAGNETICS HAYT 8 EDITION

DRILL SOLUTION FROM CHAPTERS 1 TO 5

CHAPTER I

D1.1. Given points M(-1, 2, 1), N(3, -3, 0), and P(-2, -3, -4), find: (a) \mathbf{R}_{MN} ; (b) $\mathbf{R}_{MN} + \mathbf{R}_{MN}$; (c) $|\mathbf{r}_{M}|$; (d) \mathbf{a}_{MN} ; (e) $|2\mathbf{r}_{P} - 3\mathbf{r}_{N}|$.

- (a) $\mathbf{R}_{MN} = (3 (-1))\mathbf{a}_x + (-3 2)\mathbf{a}_y + (0 1)\mathbf{a}_z = 4\mathbf{a}_x 5\mathbf{a}_y \mathbf{a}_z$
- (b) $\mathbf{R}_{SEV} + \mathbf{R}_{SEV} = \mathbf{R}_{SEV} + (-2 (-1))\mathbf{a}_x + (-3 2)\mathbf{a}_y + (-4 1)\mathbf{a}_z$ $= \mathbf{R}_{SEV} - \mathbf{a}_x - 5\mathbf{a}_y - 5\mathbf{a}_z = 4\mathbf{a}_x - 5\mathbf{a}_y - \mathbf{a}_z - \mathbf{a}_x - 5\mathbf{a}_y - 5\mathbf{a}_z$ $= 3\mathbf{a}_x - 10\mathbf{a}_y - 6\mathbf{a}_z$
- (c) $|\mathbf{r}_M| = \sqrt{(-1)^2 + 2^2 + 1^2} = \sqrt{6} = 2.45$
- (d) $\mathbf{a}_{MP} = \frac{-\mathbf{a}_x 5\mathbf{a}_y 5\mathbf{a}_z}{\sqrt{(-1)^2 + (-5)^2 + (-5)^2}} = \frac{-\mathbf{a}_x 5\mathbf{a}_y 5\mathbf{a}_z}{\sqrt{51}} = -0.14\mathbf{a}_x 0.7\mathbf{a}_y 0.7\mathbf{a}_z$
- (e) $2\mathbf{r}_P 3\mathbf{r}_N = 2(-2\mathbf{a}_x 3\mathbf{a}_y 4\mathbf{a}_z) 3(3\mathbf{a}_x 3\mathbf{a}_y) = -4\mathbf{a}_x 6\mathbf{a}_y 8\mathbf{a}_z 9\mathbf{a}_x + 9\mathbf{a}_y$ = $-13\mathbf{a}_x + 3\mathbf{a}_y - 8\mathbf{a}_z$
 - $|2\mathbf{r}_F 3\mathbf{r}_N| = \sqrt{(-13)^2 + 3^2 + (-8)^2} = 11\sqrt{2} = 15.56$

D1.2. A vector field S is expressed in rectangular coordinates as $S = \{125/((x-1)^2 + (y-2)^2 + (z+1)^2\}\}\{(x-1)\mathbf{a}_x + (y-2)\mathbf{a}_y + (z+1)\mathbf{a}_z\}$. (a) Evaluate S at P(2, 4, 3). (b) Determine a unit vector that gives the direction of S at P. (c) Specify the surface f(x, y, z) on which |S| = 1.

- (a) $\mathbf{S} = \frac{125}{(2-1)^2 + (4-2)^2 + (3+1)^2} \{(2-1)\mathbf{a}_x + (4-2)\mathbf{a}_y + (3+1)\mathbf{a}_z\}$ $= \frac{125}{1^2 + 2^2 + 4^2} (\mathbf{a}_x + 2\mathbf{a}_y + 4\mathbf{a}_z) = \frac{125}{21} (\mathbf{a}_x + 2\mathbf{a}_y + 4\mathbf{a}_z)$ $= 5.95\mathbf{a}_x + 11.9\mathbf{a}_y + 23.8\mathbf{a}_z$
- (b) $\mathbf{a}_S = \frac{5.95\mathbf{a}_s + 11.9\mathbf{a}_s + 23.8\mathbf{a}_s}{\sqrt{5.95^2 + 11.9^2 + 23.8^2}} = \frac{5.95\mathbf{a}_s + 11.9\mathbf{a}_s + 23.8\mathbf{a}_s}{27.27}$ = $0.218\mathbf{a}_s + 0.436\mathbf{a}_s + 0.873\mathbf{a}_s$
- (c) 1 = |S| =

$$\sqrt{\left(\frac{125(x-1)}{(x-1)^2+(y-2)^2+(z+1)^2}\right)^2 + \left(\frac{125(y-2)}{(x-1)^2+(y-2)^2+(z+1)^2}\right)^2 + \left(\frac{125(z+1)}{(x-1)^2+(y-2)^2+(z+1)^2}\right)^2} + \left(\frac{125(z+1)}{(x-1)^2+(y-2)^2+(z+1)^2}\right)^2}$$

$$1 = \sqrt{\frac{125^2[(x-1)^2+(y-2)^2+(z+1)^2]}{[(x-1)^2+(y-2)^2+(z+1)^2]^2}} = \frac{125\sqrt{(x-1)^2+(y-2)^2+(z+1)^2}}{(x-1)^2+(y-2)^2+(z+1)^2}$$

Transposing.

$$\frac{(x-1)^2 + (y-2)^2 + (z+1)^2}{\sqrt{(x-1)^2 + (y-2)^2 + (z+1)^2}} = 125$$

Conjugating.

$$\frac{(x-1)^2 + (y-2)^2 + (z+1)^2}{\sqrt{(x-1)^2 + (y-2)^2 + (z+1)^2}} \cdot \frac{\sqrt{(x-1)^2 + (y-2)^2 + (z+1)^2}}{\sqrt{(x-1)^2 + (y-2)^2 + (z+1)^2}} = 125$$

$$\sqrt{(x-1)^2 + (y-2)^2 + (z+1)^2} = 125$$

- D1.3. The three vertices of a triangle are located at A(6, -1, 2), B(-2, 3, -4), and C(-3, 1, 5). Find:
- (a) R_{AB}; (b) R_{AC}; (c) the angle θ_{BAC} at vertex A; (d) the (vector) projection of R_{AB} on R_{AC}.
- (a) $\mathbf{R}_{AB} = (-2 6)\mathbf{a}_x + (3 (-1))\mathbf{a}_y + (-4 2)\mathbf{a}_z$
- $= -8a_x + 4a_y 6a_x$
- (b) $\mathbf{R}_{SC} = (-3 6)\mathbf{a}_x + (1 (-1))\mathbf{a}_y + (5 2)\mathbf{a}_z$ = $-9\mathbf{a}_x + 2\mathbf{a}_y + 3\mathbf{a}_z$
- (c) Locating angle O_{E+C}.

 $\mathbf{R}_{AB} \cdot \mathbf{R}_{AC} = (-8)(-9) + 4(2) + (-6)3 = 72 + 8 - 18 = 62$

Using dot product,

 $\mathbf{R}_{4S} \cdot \mathbf{R}_{4C} = |\mathbf{R}_{4S}||\mathbf{R}_{4C}|\cos \theta_{R4C}$

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