

## CHAPTER II: VECTOR CALCULUS

(Line Integrals, Surface Integrals and Volume Integrals)

### 1. Ordinary Vector Integration

a.  $\int_0^{\frac{\pi}{2}} (3 \sin u \mathbf{i} + 2 \cos u \mathbf{j}) du$  Ans  $3\mathbf{i} + 2\mathbf{j}$

- b. The acceleration  $\mathbf{a}$  of a particle at any time  $t \geq 0$  is given by  $\mathbf{a} = e^{-t}\mathbf{i} - 6(t+1)\mathbf{j} + 3 \sin t\mathbf{k}$ . If the velocity  $\mathbf{v}$  and displacement  $\mathbf{r}$  are zero at  $t = 0$ , find  $\mathbf{v}$  and  $\mathbf{r}$  at any time. Ans  $\mathbf{v} = (1 - e^{-t})\mathbf{i} - (3t^2 + 6t)\mathbf{j} + (3 - 3 \cos t)\mathbf{k}$ ,  $\mathbf{r} = (t - 1 + e^{-t})\mathbf{i} - (t^3 + 3t^2)\mathbf{j} + (3t - 3 \sin t)\mathbf{k}$

### 2. Line Integrals

- a. If  $\mathbf{A} = (3x^2 + 6y)\mathbf{i} - 14yz\mathbf{j} + 20xz^2\mathbf{k}$ , evaluate  $\int_C \mathbf{A} \cdot d\mathbf{r}$  from  $(0, 0, 0)$  to  $(1, 1, 1)$  along the following paths  $C$ :

(i)  $x = 1 - t, y = 3t^2, z = (1 + t)^2$ .

- (ii) the straight lines from  $(0, 0, 0)$  to  $(1, 0, 0)$ , then  $(1, 1, 0)$ , and then to  $(1, 1, 1)$ . Ans  $\frac{23}{3}$

(iii) the straight line joining  $(0, 0, 0)$  and  $(1, 1, 1)$ . Ans  $\frac{13}{3}$

- b. If  $\mathbf{F} = (2xy - 4z^2)\mathbf{i} + (2y - 4xz)\mathbf{j}$ , evaluate  $\int_C \mathbf{F} \cdot d\mathbf{r}$  along the curve in the  $xy$ -plane,  $z = 0$  from the point  $(1, 1)$  to  $(2, 2)$ . Ans 10

- c. If  $\mathbf{F} = (2x + yz)\mathbf{i} + (2y - xz)\mathbf{j}$ , evaluate  $\int_C \mathbf{F} \cdot d\mathbf{r}$  along  $C$  in the curve in the  $xy$ -plane consisting of straight lines from  $(0, 0)$  to  $(2, 0)$  and then to  $(2, 2)$ . Ans 11

- d. Find the work done in moving a particle in the force field  $\mathbf{F} = 4xz^2\mathbf{i} + (2xy - yz^2)\mathbf{j} + xz\mathbf{k}$  along

(i) the straight line from  $(0, 0, 0)$  to  $(2, 1, 2)$ . Ans 10

(ii) the open curve  $z = 0, y = 1, z = 0, x = 2$  from  $(0, 1, 0)$  to  $(2, 1, 0)$ . Ans 14/3

(iii) the curve defined by  $x^2 = 4y, 3x^2 = 4z$  from  $(0, 0, 0)$  to  $(2, 1, 2)$ . Ans 10

- e. If  $\mathbf{F} = 2xyz^2\mathbf{i} + (yz^2 - x^2)\mathbf{j} + x^2z\mathbf{k}$  and  $C$  is the curve  $z = 0, y = 2x, z = 0$  from  $(0, 0, 0)$  to  $(1, 2, 0)$ , evaluate the line integrals

(i)  $\int_C \mathbf{F} \cdot d\mathbf{r}$  Ans  $\frac{2}{15}\mathbf{i} + \frac{2}{15}\mathbf{j} = \frac{4}{15}$

(ii)  $\int_C \mathbf{F} \cdot d\mathbf{r}$  Ans  $-\frac{2}{15}\mathbf{i} - \frac{2}{15}\mathbf{j} = -\frac{4}{15}$

- f. Evaluate  $\int_C \mathbf{F} \cdot d\mathbf{r}$  where  $\mathbf{F} = (x - 4yz)\mathbf{i} + (2y - 3xz)\mathbf{j}$  and  $C$  is the closed curve in the  $xy$ -plane,  $z = 0$  from  $(0, 0, 0)$  to  $(1, 0, 0)$  to  $(1, 1, 0)$  to  $(0, 1, 0)$  to  $(0, 0, 0)$ . Ans 10

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**Lingjun Ying**



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