

Q6 → Q

Illustrations

Ex. 1 : Verify Divergence theorem for $\vec{F} = 4xz \vec{i} - y^2 \vec{j} + yz \vec{k}$ and S , the surface of the cube bounded by the planes $x = 0, x = 2, y = 0, y = 2, z = 0, z = 2$.

Sol. : Taking the co-ordinate axes as shown in Fig. 9.9, we proceed to evaluate volume and surface integrals. (Dec. 05, May 16)

$$\nabla \cdot \vec{F} = \frac{\partial}{\partial x}(4xz) + \frac{\partial}{\partial y}(-y^2) + \frac{\partial}{\partial z}(yz) = 4z - 2y + y = 4z - y$$

$$\begin{aligned} \iiint_V \nabla \cdot \vec{F} \, dV &= \int_{x=0}^2 \int_{y=0}^2 \int_{z=0}^2 (4z - y) \, dz \, dy \, dx \\ &= \int_0^2 \int_0^2 \left(\frac{4z^2}{2} - yz \right)_0^2 \, dx \, dy = \int_0^2 \int_0^2 (8 - 2y) \, dx \, dy \\ &= \int_0^2 \left(8y - \frac{2y^2}{2} \right)_0^2 \, dy = \int_0^2 (16 - 4) \, dy = 12 [y]_0^2 = 24 \end{aligned}$$

Thus, $\iiint_V \nabla \cdot \vec{F} \, dV = 24$

Now to evaluate surface integrals, consider the surfaces $S_1 = OABC$, $S_2 = GDEF$, $S_3 = OAGF$, $S_4 = BCED$, $S_5 = OCEF$, $S_6 = ABFG$.

$$I_1 = \iint_{S_1} \vec{F} \cdot \hat{n} \, dS$$

For S_1 ,

$$\hat{n} = -\vec{k}, \quad dS = dx \, dy$$

$$\vec{F} \cdot \hat{n} = \vec{F} \cdot (-\vec{k}) = (4xz \vec{i} - y^2 \vec{j} + yz \vec{k}) \cdot (-\vec{k}) = -yz$$

$$I_1 = \iint_{S_1} -yz \, dx \, dy, \text{ But } z = 0 \text{ in the plane } OABC$$

$$I_1 = 0$$

For S_2 ,

$$\hat{n} = \vec{k}, \quad dS = dx \, dy, \quad \vec{F} \cdot \hat{n} = yz$$

$$I_2 = \iint_{S_2} yz \, dx \, dy, \quad \text{Here } z = 2$$

$$= 2 \int_0^2 \int_0^2 y \, dx \, dy = 2 \int_0^2 \left[\frac{xy}{2} \right]_0^2 \, dy = 4 [y]_0^2 = 8$$

For S_3 , i.e. surface OAGF,

$$\hat{n} = -\vec{j}$$

$$dS = dx \, dz, \quad \vec{F} \cdot \hat{n} = \vec{F} \cdot (-\vec{j}) = -y^2$$

$$I_3 = \iint_{S_3} -y^2 \, dx \, dz, \text{ But } y = 0 \text{ in the plane } S_3$$

$$I_3 = 0$$

For S_4 , i.e. surface BCED, $\hat{n} = \vec{j}$, $dS = dx \, dz$

$$\vec{F} \cdot \hat{n} = -y^2$$

$$I_4 = \iint_{S_4} -y^2 \, dx \, dz$$

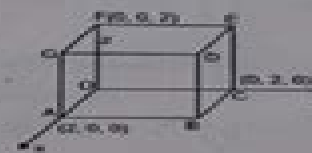


Fig. 9.9

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