

Equation (1) is a three-dimensional analogue of the vector form of Gauss's theorem that we saw in Equation (9) of Section 17.4.

$$\oint_C \mathbf{F} \cdot \mathbf{n} \, ds = \iiint_V \nabla \cdot \mathbf{F} \, dV.$$

Let $\mathbf{F}$ be a vector field in the plane, C is a piecewise smooth curve that bounds the plane region R , and $\mathbf{n}$ is the outer unit normal to C . Note that the left-hand side in Equation (1) is the flux of $\mathbf{F}$ across S in the direction of the outer unit normal $\mathbf{n}$. Recall that the divergence $\nabla \cdot \mathbf{F}$ of the vector field $\mathbf{F}$ is given in the three-dimensional case by

$$\operatorname{div} \mathbf{F} = \nabla \cdot \mathbf{F} = \frac{\partial P}{\partial x} + \frac{\partial Q}{\partial y} + \frac{\partial R}{\partial z}. \quad (2)$$

is given in terms of its direction cosines, as $\mathbf{N} = (\cos \alpha, \cos \beta, \cos \gamma)$, we can write the divergence theorem in scalar form:

$$\iiint_V (P \cos \alpha + Q \cos \beta + R \cos \gamma) \, dV = \iint_S \left(\frac{\partial P}{\partial x} + \frac{\partial Q}{\partial y} + \frac{\partial R}{\partial z} \right) dV. \quad (3)$$

It is best to parametrize S so that the normal vector given by the parametrization is the outer normal. For then Equation (3) can be written in Cartesian form:

$$\iiint_V P \, dy \, dz + Q \, dz \, dx + R \, dx \, dy = \iiint_V \left(\frac{\partial P}{\partial x} + \frac{\partial Q}{\partial y} + \frac{\partial R}{\partial z} \right) dV. \quad (4)$$

The Divergence Theorem We shall prove the theorem only in the case the region T is simultaneously x -simple, y -simple, and z -simple. This means that every straight line parallel to a coordinate axis intersects T at a single point or a line segment. It will suffice to derive separately the

$$\begin{aligned} \iint_T P \, dy \, dz &= \iiint_V \frac{\partial P}{\partial x} \, dV, \\ \iint_T Q \, dz \, dx &= \iiint_V \frac{\partial Q}{\partial y} \, dV, \quad \text{and} \\ \iint_T R \, dx \, dy &= \iiint_V \frac{\partial R}{\partial z} \, dV. \end{aligned} \quad (5)$$

Each of the equations in (5) yields Equation (4). Since T is x -simple, it has the description

$$h_1(x, y) \leq z \leq h_2(x, y)$$

As in Fig. 17.26, we denote the lower surface $z = h_1(x, y)$ of the upper surface $z = h_2(x, y)$ by S_1 , and the lateral surface between S_1 and S_2 . In the case of some simple surfaces—such as a spherical

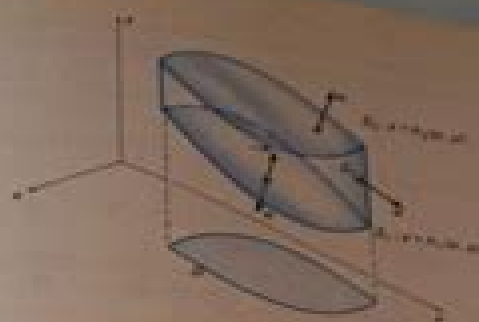


FIG. 17.26 A simple space region bounded by the surfaces S_1 , S_2 , and S_3 .

surface—there may be no S_3 to consider. But if there is, we see that

$$\iint_{S_3} R \, dx \, dy = \iint_{S_3} R \cos \gamma \, dS = 0, \quad (6)$$

because $\gamma = 90^\circ$ at each point of the vertical cylinder S_3 .

On the upper surface S_2 , the unit upper normal corresponding to the parametrization $z = h_2(x, y)$ is the given outer unit normal $\mathbf{n}$, so the formula in Equation (15) of Section 17.5 yields

$$\iint_{S_2} R \, dx \, dy = \iint_D R(x, y, h_2(x, y)) \, dx \, dy. \quad (7)$$

But on the lower surface S_1 , the unit upper normal corresponding to the parametrization $z = h_1(x, y)$ is the inner normal $-\mathbf{n}$, so we must reverse the sign. Thus

$$\iint_{S_1} R \, dx \, dy = - \iint_D R(x, y, h_1(x, y)) \, dx \, dy. \quad (8)$$

Adding Equations (6), (7), and (8), the result is that

$$\begin{aligned} \iint_T R \, dx \, dy &= \iint_D [R(x, y, h_2(x, y)) - R(x, y, h_1(x, y))] \, dx \, dy \\ &= \iint_D \left(\int_{h_1(x, y)}^{h_2(x, y)} \frac{\partial R}{\partial z} \, dz \right) \, dx \, dy. \end{aligned}$$

Therefore,

$$\iint_T R \, dx \, dy = \iiint_V \frac{\partial R}{\partial z} \, dV.$$

This is the third of the three equations in (5), and the other two may be derived in much the same way. ■

The divergence theorem is established for more general regions by the use of subdivision of T into simpler regions, ones for which the proof

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