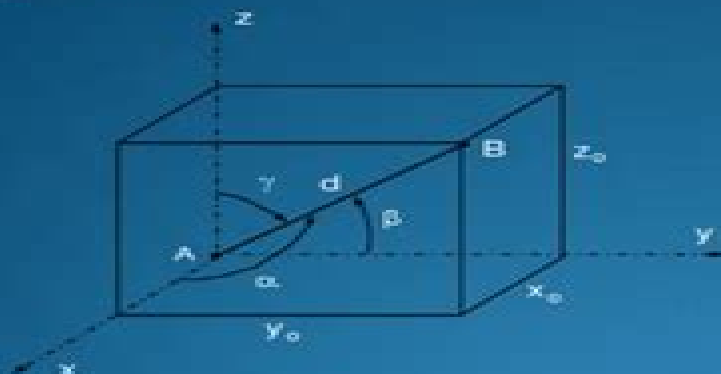


# SOLID ANALYTIC GEOMETRY



Distance Formula

$$d = \sqrt{x_0^2 + y_0^2 + z_0^2}$$

Direction of Cosines

$$\cos \alpha = \frac{x_0}{d} \quad \cos \beta = \frac{y_0}{d}$$

$$\cos \gamma = \frac{z_0}{d}$$

Gen. Equation of a Plane

$$Ax + By + Cz + D = 0$$

Intercept Form (for sketching)

$$\frac{x}{a} + \frac{y}{b} + \frac{z}{c} = 1$$

$$a = \frac{-D}{A} \quad b = \frac{-D}{B} \quad c = \frac{-D}{C}$$

For Two Planes

$$\frac{A_1}{A_2} = \frac{B_1}{B_2} = \frac{C_1}{C_2} \quad \text{PARALLEL}$$

$$A_1A_2 + B_1B_2 + C_1C_2 = 0 \quad \text{PERPENDICULAR}$$

Distance from a point  $P_1(x_1, y_1, z_1)$  to the Plane  $Ax + By + Cz + D = 0$ .

$$d = \frac{|Ax_1 + By_1 + Cz_1 + D|}{\sqrt{A^2 + B^2 + C^2}}$$

Angle between two planes

$$A_1x + B_1y + C_1z + D = 0$$

$$A_2x + B_2y + C_2z + D = 0$$

$$\cos \theta = \frac{|A_1A_2 + B_1B_2 + C_1C_2|}{\sqrt{A_1^2 + B_1^2 + C_1^2} \sqrt{A_2^2 + B_2^2 + C_2^2}}$$

Distance between two planes

$$d = \frac{|D_1 - D_2|}{\sqrt{A^2 + B^2 + C^2}}$$

Standard Equation of a Sphere

$$(x-h)^2 + (y-k)^2 + (z-m)^2 = r^2$$

$c(h,k,m)$

For an Ellipsoid

$$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} + \frac{(z-m)^2}{c^2} = 1$$

$$V = \frac{4}{3}\pi abc$$

# Solid Analytic Geometry

**Joseph H. Kindle**



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