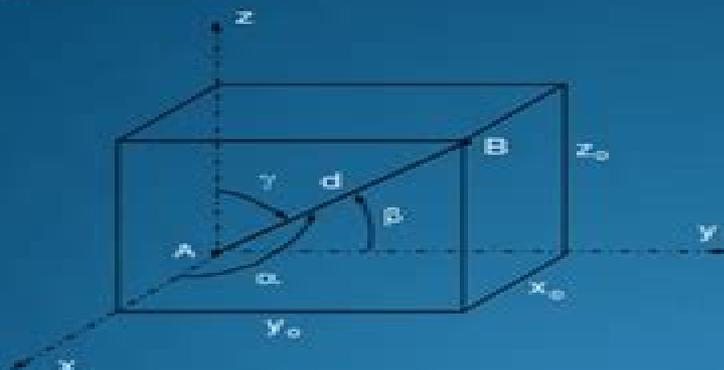


SOLID ANALYTIC GEOMETRY



Distance Formula

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

Direction of Cosines

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

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

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

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

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

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

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

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

Liyong Dong



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Table of Contents Solid Analytic Geometry

1. Understanding the eBook Solid Analytic Geometry
 - The Rise of Digital Reading Solid Analytic Geometry
 - Advantages of eBooks Over Traditional Books
2. Identifying Solid Analytic Geometry
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Solid Analytic Geometry
 - User-Friendly Interface
4. Exploring eBook Recommendations from Solid Analytic Geometry
 - Personalized Recommendations
 - Solid Analytic Geometry User Reviews and Ratings
 - Solid Analytic Geometry and Bestseller Lists

5. Accessing Solid Analytic Geometry Free and Paid eBooks
 - Solid Analytic Geometry Public Domain eBooks
 - Solid Analytic Geometry eBook Subscription Services
 - Solid Analytic Geometry Budget-Friendly Options
6. Navigating Solid Analytic Geometry eBook Formats
 - ePub, PDF, MOBI, and More
 - Solid Analytic Geometry Compatibility with Devices
 - Solid Analytic Geometry Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Solid Analytic Geometry
 - Highlighting and Note-Taking Solid Analytic Geometry
 - Interactive Elements Solid Analytic Geometry
8. Staying Engaged with Solid Analytic Geometry
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Solid Analytic Geometry
9. Balancing eBooks and Physical Books Solid Analytic Geometry
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Solid Analytic Geometry
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Solid Analytic Geometry
 - Setting Reading Goals Solid Analytic Geometry
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solid Analytic Geometry
 - Fact-Checking eBook Content of Solid Analytic Geometry
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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