

## Scalar product

The scalar product is used to find the angle between two vectors (or between two lines).

The formula for scalar product is

$$\mathbf{a} \cdot \mathbf{b} = ab \cos \theta \text{ (LEARN THIS!!)}$$

where  $a$  is the magnitude of  $\mathbf{a}$ ,  $b$  is the magnitude of  $\mathbf{b}$ , and  $\theta$  is the angle between vectors  $\mathbf{a}$  and  $\mathbf{b}$ .

Note: The angle between two lines is the angle between their direction vectors.

**Example:**

Find the angle between the vectors

$$3\mathbf{i} + 2\mathbf{j} - 2\mathbf{k} \text{ and } -4\mathbf{i} - \mathbf{j} + 3\mathbf{k}.$$

**Solution:**

Step 1: Find the scalar product:

$$\begin{pmatrix} 3 \\ 2 \\ -2 \end{pmatrix} \cdot \begin{pmatrix} -4 \\ -1 \\ 3 \end{pmatrix} = -12 - 2 - 6 = -20$$

Step 2: Find the magnitude of each vector:

$$\begin{vmatrix} 3 \\ 2 \\ -2 \end{vmatrix} = \sqrt{9+4+4} = \sqrt{17}, \quad \begin{vmatrix} -4 \\ -1 \\ 3 \end{vmatrix} = \sqrt{16+1+9} = \sqrt{26}$$

Step 3: Use the formula for the scalar product:

$$\mathbf{a} \cdot \mathbf{b} = ab \cos \theta$$

$$-20 = \sqrt{17} \times \sqrt{26} \times \cos \theta$$

$$\cos \theta = \frac{-20}{\sqrt{17} \times \sqrt{26}} = -0.9513$$

So,  $\theta = 162^\circ$

There is also an acute angle between the lines. This is  $180 - 162 = 18^\circ$ .

# VECTORS

The magnitude of a vector is its length. The

magnitude of the vector  $\begin{pmatrix} a \\ b \\ c \end{pmatrix}$  is  $\sqrt{a^2 + b^2 + c^2}$ .

The distance between 2 points A and B is  $|\overline{AB}|$ .

**Example:** a) Find the vector equation of line  $l_1$  passing through the points A(1, -2, 6) and B(7, 1, -3).

b) A second line  $l_2$  has equation

$$\mathbf{r} = (1 + 2\mathbf{j} + 3\mathbf{k}) + s(4\mathbf{i} - 6\mathbf{j} + 2\mathbf{k}).$$

Show that line  $l_1$  and  $l_2$  are skew and find the angle between the lines.

**Solution:**

a) The direction of the line is

$$\overline{AB} = \mathbf{b} - \mathbf{a} = \begin{pmatrix} 7 \\ 1 \\ -2 \end{pmatrix} - \begin{pmatrix} 1 \\ -2 \\ 6 \end{pmatrix} = \begin{pmatrix} 6 \\ 3 \\ -8 \end{pmatrix}$$

The line passes through (1, -2, 6), so the equation is

$$\mathbf{r} = \begin{pmatrix} 1 \\ -2 \\ 6 \end{pmatrix} + t \begin{pmatrix} 6 \\ 3 \\ -8 \end{pmatrix}$$

b) To show lines are skew we show they can't intersect. We do this by writing the two vector equations equal to each other and attempting to solve the equations:

$$\begin{pmatrix} 1 \\ -2 \\ 6 \end{pmatrix} + t \begin{pmatrix} 6 \\ 3 \\ -8 \end{pmatrix} = \begin{pmatrix} 1 \\ 2 \\ 3 \end{pmatrix} + s \begin{pmatrix} 4 \\ -6 \\ 2 \end{pmatrix}$$

NOTE: It is ESSENTIAL that the lines are written with different parameters.

The vector equation of the line passing through the point (a, b, c) in the direction of the vector

$$l + m\mathbf{j} + n\mathbf{k} \text{ is: } \mathbf{r} = \begin{pmatrix} a \\ b \\ c \end{pmatrix} + t \begin{pmatrix} l \\ m \\ n \end{pmatrix}$$

Note:  $t$  is a parameter and  $\mathbf{r}$  is the position vector of a general point (x, y, z) on the line.

Lines are called skew if they do not intersect and if they are not parallel. So to prove that two lines are skew you prove they don't intersect.

We can form equations:

$$1 + 6t = 1 + 4s \rightarrow 6t - 4s = 0 \quad (1)$$

$$-2 + 3t = 2 - 6s \rightarrow 3t + 6s = 4 \quad (2)$$

$$6 - 8t = 3 + 2s \rightarrow 8t + 2s = 3 \quad (3)$$

Solving equations (1) and (2):

$$6t - 4s = 0 \quad (1)$$

$$6t + 12s = 8 \quad (2) \times 2$$

Subtract equations to remove  $t$ :  $16s = 8$

$$\text{So } s = 0.5.$$

From equation (1), we then get  $t = 1/3$ .

To show they are skew lines, we must check that these values do not work in the 3<sup>rd</sup> equation:

$$8t + 2s = 8 \times \frac{1}{3} + 2 \times 0.5 \neq 3$$

Therefore the lines are skew.

We find the angle between the direction vectors:

$$\begin{pmatrix} 6 \\ 3 \\ -8 \end{pmatrix} \cdot \begin{pmatrix} 4 \\ -6 \\ 2 \end{pmatrix} = 24 - 18 - 16 = -10$$

$$\begin{vmatrix} 6 \\ 3 \\ -8 \end{vmatrix} = \sqrt{36+9+64} = \sqrt{109} \quad \text{and} \quad \begin{vmatrix} 4 \\ -6 \\ 2 \end{vmatrix} = \sqrt{56}$$

$$\text{So } -10 = \sqrt{109} \times \sqrt{56} \times \cos \theta$$

$$\text{Therefore } \cos \theta = -0.12799 \Rightarrow \theta = 97.4^\circ$$

So the acute angle is  $82.6^\circ$ .

# Calculus And Vectors Appendiz

**Gyula Béda, Imre Kozák, József Verhás**

## **Calculus And Vectors Appendiz:**

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Popović, 2000 Modern Introductory Electromagnetics relates physical principles to engineering practice with a number of application deriving mathematical tools from physical concepts when needed **Proceedings**, 1900 Principles of Fluid Mechanics Salamon Eskinazi, 1968 **Global Differential Geometry: An Introduction for Control Engineers** B. F. Doolin, 1982 *Electromagnetic Fields, Waves, and Numerical Methods* Zijad Haznadar, Željko Štih, 2000 **Introduction to Continuum Mechanics for Engineers** Ray M. Bowen, 1989-04-30 This textbook is intended to introduce engineering graduate students to the essentials of modern continuum mechanics The objective of an introductory course is to establish certain classical continuum models within a modern framework Engineering students need a firm understanding of classical models such as linear viscous fluids Navier Stokes theory and infinitesimal elasticity This understanding should include an appreciation for the status of the classical models as special cases of general nonlinear continuum models The relationship of the classical models to nonlinear models is essential in light of the increasing reliance by engineering designers and researchers on prepackaged computer codes These codes are based upon models which have a specific and limited range of validity Given the danger associated with the use of these computer codes in circumstances where the model is not valid engineers have a need for an in depth understanding of continuum mechanics and the continuum models which can be formulated by use of continuum mechanics techniques Classical continuum models and others involve a utilization of the balance equations of continuum mechanics the second law of thermodynamics and the principles of material frame indifference and material symmetry In addition they involve linearizations of various types In this text an effort is made to explain carefully how the governing principles linearizations and other approximations combine to yield classical continuum models A fundamental understanding of how these models evolve is most helpful when one attempts to study models which account for a wider array of physical phenomena **Global Differential Geometry** B. F. Doolin, 1982 **Continuum Mechanics** Gyula Béda, Imre Kozák, József Verhás, 1995 **Schaum's Outline of Mathematics for Physics Students** Robert Steiner, Philip Schmidt, 2007-05-11 Confusing Textbooks Missed Lectures Tough Test Questions Fortunately for you there s Schaum s Outlines More than 40 million students have trusted Schaum s to help them succeed in the classroom and on exams Schaum s is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum s Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up to date developments in your course field In depth review of practices and applications Fully compatible with your classroom text Schaum s highlights all the important facts you need to know Use Schaum s to shorten your study time and get your best test scores Schaum s Outlines Problem Solved Electrical Communication, 1955

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