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It provides the reader who is approaching the subject for the first time with a deeper understanding of the geometrical properties of vectors and covectors. The material prepares the reader for discussions on basic concepts such as the differential of a function as a covector, metric dual, inner product, wedge product and cross product.

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Geometrical Properties of Vectors and Covectors

We are going to discuss two fundamental geometric properties of vectors in : length and direction. First, if \mathbf{v} is a vector with point P , the norm of vector is defined to be the distance from the origin to P , that is the length of the arrow representing \mathbf{v} . The following properties of length will be used frequently. Theorem 4.1.1

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Geometric Properties A vector is a quantity with both magnitude and direction, there are two operations defined on vectors and these both have a very direct geometric interpretation. We draw a vector as a line with an arrow, for now I will call the end without the arrow

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the 'start' of the vector and the end with the arrow the 'end' of the vector.

Maths - Vectors - Martin Baker

The dot product of two unit vectors behaves just oppositely: it is zero when the unit vectors are perpendicular and 1 if the unit vectors are parallel. Unit vectors enable two convenient identities: the dot product of two unit vectors yields the cosine (which may be positive or negative) of the angle between the two unit vectors.

Cross product - Wikipedia

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Overview Vectors are perhaps the most important mathematical objects used in modeling and animation. They have the properties of magnitude and direction, and provide visual understanding of model construction and analysis. Matrices are natural and hardworking partners of vectors. This work presents lessons on vectors and matrices in geometric and 3D modeling—the mathematics at t...

Vectors and Matrices for Geometric and 3D Modeling

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In Euclidean space, a Euclidean vector is a

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geometric object that possesses both a magnitude and a direction. A vector can be pictured as an arrow. Its magnitude is its length, and its direction is the direction to which the arrow points. The magnitude of a vector a is denoted by

Dot product - Wikipedia

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The two defining properties of a vector, magnitude and direction, are illustrated by a red bar and a green arrow, respectively. The length of the red bar is the magnitude $|a|$ of the vector a . The green arrow always has length one, but its direction is the direction of the vector a .

An introduction to vectors - Math Insight

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