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In 3-dimensional geometry, for a finite planar surface of scalar area S and unit normal \hat{n} , the vector area \vec{S} is defined as the unit normal scaled by the area: $\vec{S} = S\hat{n}$. For an orientable surface S composed of a set S_i of flat facet areas, the vector area of the surface is given by $\vec{S} = \sum S_i \hat{n}_i$ where \hat{n}_i is the unit normal vector to the area S_i . For bounded, oriented curved surfaces that are ...

Vector area - Wikipedia

This site is intended as a resource for university students in the mathematical sciences. Books are recommended on the basis of readability and other pedagogical value. Topics range from number theory to relativity to how to study calculus.

Books in the Mathematical Sciences

In mathematics, a unit vector in a normed vector space is a vector (often a spatial vector) of length 1. A unit vector is often denoted by a lowercase letter with a circumflex, or "hat": \hat{e} (pronounced "i-hat"). The term direction vector is used to describe a unit vector being used to represent spatial direction, and such quantities are commonly denoted as \hat{d} .

Unit vector - Wikipedia

Bibliography. Mathematical Methods for Physics and Engineering by Riley, Hobson, and Bence. Cambridge Uni-versity Press For the quantity of well-written material here, it is surprisingly inexpensive in paperback.

Mathematical Tools for Physics

I am often asked in emails how to go about learning the necessary mathematics for getting a job in quantitative finance or data science if it isn't possible to head to university. This article is a response to such emails. I want to discuss how you can become a mathematical autodidact using nothing ...

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10 Computer Application - IASRI

An $n \times n$ complex matrix A is called positive definite if $\text{Re}(x^*Ax) > 0$ (1) for all nonzero complex vectors x in \mathbb{C}^n , where x^* denotes the conjugate transpose of the vector x . In the case of a real matrix A , equation (1) reduces to $x^T Ax > 0$, (2) where x^T denotes the transpose. Positive definite matrices are of both theoretical and computational importance in a wide variety of applications.

Positive Definite Matrix -- from Wolfram MathWorld

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$\text{entry_component}(\Gamma)$: entry, component $\text{matrix_over}(K)$: matrix over K

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