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Vector Analysis, 2nd Edition: Murray Spiegel, Seymour

Vector and Tensor Mathematics 23 3.2 Vector and Tensor Mathematics

The variables used to describe physical quantities are of a number of types, including scalars, vectors, and tensors.

3.2 Vector and Tensor Mathematics - PolymerProcessing.com

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

Vector area - Wikipedia

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{i} (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 \mathbf{d} .

Unit vector - Wikipedia

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