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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.

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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  $S$  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  $\vec{S} = \sum \hat{n}_i S_i$  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":  $\hat{u}$  (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**

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