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2 Chapter 1 Vector Analysis FIGURE 1.1 Triangle law of vector addition. FIGURE 1.2 Parallelogram law of vector addition. FIGURE 1.3 Vector addition is associative. Then this sum is added to C: $D = E + C$. Similarly, we may first add B and C: $B + C = F$. Then $D = A + F$. In terms of the original expression, $(A + B) + C = A + (B + C)$. Vector addition is associative.

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A unit vector is a vector having unit magnitude. If a is not a null vector then $\hat{a} = a/|a|$ is a unit vector having the same direction as a . 2.2.1 Scalar product The scalar product between two vectors, a and b is defined by $a \cdot b = |a||b|\cos(\theta)$; $0 \leq \theta \leq \pi$ (2.2) where $a = |a|\hat{a}$, $b = |b|\hat{b}$ and θ is the angle between the two vectors. Note that $a \cdot b$ is a scalar.

Introduction to vector and tensor analysis

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1 Vector Analysis A.1 Vectors A.1.1 Introduction Some physical quantities like the mass or the temperature at some point only have magnitude. We can represent these quantities by number alone (with the appropriate

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