1
Suffix notation and tensor algebra

1.1 Summation convention

We consider a rectangular cartesian coordinate system with unit vectors $\mathbf{i}$, $\mathbf{j}$ and $\mathbf{k}$ along the three coordinate axes x, y and z respectively. For convenience, we relabel these unit vectors $\mathbf{e}_1$, $\mathbf{e}_2$ and $\mathbf{e}_3$ and denote the coordinate axes by x_1, x_2 and x_3 (Figure 1.1). A typical vector $\mathbf{a}$ with components a_1, a_2 and a_3 in cartesian coordinates can then be written as

$$\mathbf{a} = \sum_{i=1}^{3} a_i \mathbf{e}_i. \tag{1.1}$$

Instead of writing the summation sign in (1.1) every time we have an expression of this kind, we can adopt the summation convention: whenever an index occurs precisely twice in a term, it is understood that the index is to be summed over its full range of possible values without the need for explicitly writing the summation sign $\sum$. Hence (1.1), with this convention, is

$$\mathbf{a} = a_i \mathbf{e}_i, \tag{1.2}$$

where summation over i is implied ($i = 1, 2, 3$). Since the components a_i of $\mathbf{a}$ are given by the dot-product of $\mathbf{a}$ with each of the unit vectors $\mathbf{e}_i$, then $a_i = \mathbf{a} \cdot \mathbf{e}_i$ ($i = 1, 2, 3$) and (1.2) can be written

$$\mathbf{a} = (\mathbf{a} \cdot \mathbf{e}_i)\mathbf{e}_i, \tag{1.3}$$

again adopting the summation convention.

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