

# 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

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

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  $\Sigma$ . Hence (1.1), with this convention, is

$$\mathbf{a} = a_i \mathbf{e}_i, \quad (1.2)$$

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

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

again adopting the summation convention.

# Chapter 1 Tensor Notation Springer

**IM Harris**



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