

current-carrying wire (the  $\hat{\phi}$  direction). You'll find some examples of that in the problems at the end of this chapter.

## 1.6 Basis vectors

If you think about the unit vectors  $\hat{i}$ ,  $\hat{j}$ , and  $\hat{k}$  and vector components such as  $A_x\hat{i}$ ,  $A_y\hat{j}$ , and  $A_z\hat{k}$ , you may realize that *any* vector in our three-dimensional Cartesian coordinate system can be made up of three components, each one telling you how many steps to take in the direction of one of the coordinate axes. Since those steps may be large or small, in the positive or negative direction, you can reach any point in the space containing these vectors. Little wonder, then, that  $\hat{i}$ ,  $\hat{j}$ , and  $\hat{k}$  are one example of “basis vectors” in this space; combined with appropriate magnitudes, they form the *basis* of any vector in the space.

And you don't need to use only these particular vectors to make up any vector in this space – you can easily imagine using three vectors that are twice as long as the unit vectors  $\hat{i}$ ,  $\hat{j}$ , and  $\hat{k}$ , as shown in Figure 1.13(a). Although the vector components would change if you switched to these longer basis vectors, you'd have no trouble using them to make up any vector within the space. Specifically, if the unit vectors were twice as long, the values of  $A_x$ ,  $A_y$ , and  $A_z$  would have to be only half as big to reach a given point in space.

You might even think of using three non-orthogonal, non-unit vectors such as the vectors  $\vec{e}_1$ ,  $\vec{e}_2$ , and  $\vec{e}_3$  in Figure 1.13(b) as your basis vectors. Of course, if you were to select three coplanar vectors (that is, vectors lying in the same plane), you'd quickly find that scaling and combining those vectors allows you

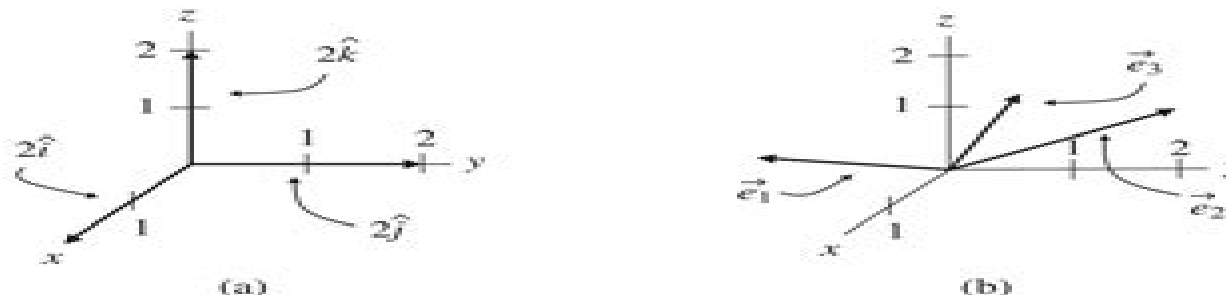


Figure 1.13 Alternative basis vectors.

# A Students Guide To Vectors And Tensors

**Norman Gray**



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