

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

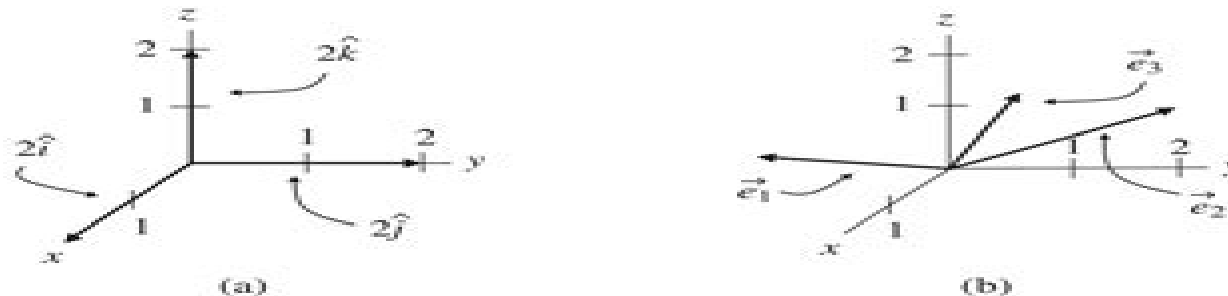


Figure 1.13 Alternative basis vectors.

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Katrin Zwirgmaier



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Table of Contents A Students Guide To Vectors And Tensors

1. Understanding the eBook A Students Guide To Vectors And Tensors
 - The Rise of Digital Reading A Students Guide To Vectors And Tensors
 - Advantages of eBooks Over Traditional Books
2. Identifying A Students Guide To Vectors And Tensors
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an A Students Guide To Vectors And Tensors
 - User-Friendly Interface
4. Exploring eBook Recommendations from A Students Guide To Vectors And Tensors
 - Personalized Recommendations
 - A Students Guide To Vectors And Tensors User Reviews and Ratings
 - A Students Guide To Vectors And Tensors and Bestseller Lists
5. Accessing A Students Guide To Vectors And Tensors Free and Paid eBooks
 - A Students Guide To Vectors And Tensors Public Domain eBooks
 - A Students Guide To Vectors And Tensors eBook Subscription Services
 - A Students Guide To Vectors And Tensors Budget-Friendly Options

6. Navigating A Students Guide To Vectors And Tensors eBook Formats
 - ePub, PDF, MOBI, and More
 - A Students Guide To Vectors And Tensors Compatibility with Devices
 - A Students Guide To Vectors And Tensors Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of A Students Guide To Vectors And Tensors
 - Highlighting and Note-Taking A Students Guide To Vectors And Tensors
 - Interactive Elements A Students Guide To Vectors And Tensors
8. Staying Engaged with A Students Guide To Vectors And Tensors
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers A Students Guide To Vectors And Tensors
9. Balancing eBooks and Physical Books A Students Guide To Vectors And Tensors
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection A Students Guide To Vectors And Tensors
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine A Students Guide To Vectors And Tensors
 - Setting Reading Goals A Students Guide To Vectors And Tensors
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of A Students Guide To Vectors And Tensors
 - Fact-Checking eBook Content of A Students Guide To Vectors And Tensors
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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