

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 Σ . 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.

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Table of Contents Chapter 1 Tensor Notation Springer

1. Understanding the eBook Chapter 1 Tensor Notation Springer
 - The Rise of Digital Reading Chapter 1 Tensor Notation Springer
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 1 Tensor Notation Springer
 - 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 Chapter 1 Tensor Notation Springer
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 1 Tensor Notation Springer
 - Personalized Recommendations
 - Chapter 1 Tensor Notation Springer User Reviews and Ratings
 - Chapter 1 Tensor Notation Springer and Bestseller Lists
5. Accessing Chapter 1 Tensor Notation Springer Free and Paid eBooks
 - Chapter 1 Tensor Notation Springer Public Domain eBooks
 - Chapter 1 Tensor Notation Springer eBook Subscription Services

- Chapter 1 Tensor Notation Springer Budget-Friendly Options
- 6. Navigating Chapter 1 Tensor Notation Springer eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 1 Tensor Notation Springer Compatibility with Devices
 - Chapter 1 Tensor Notation Springer Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 1 Tensor Notation Springer
 - Highlighting and Note-Taking Chapter 1 Tensor Notation Springer
 - Interactive Elements Chapter 1 Tensor Notation Springer
- 8. Staying Engaged with Chapter 1 Tensor Notation Springer
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 1 Tensor Notation Springer
- 9. Balancing eBooks and Physical Books Chapter 1 Tensor Notation Springer
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 1 Tensor Notation Springer
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 1 Tensor Notation Springer
 - Setting Reading Goals Chapter 1 Tensor Notation Springer
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 1 Tensor Notation Springer
 - Fact-Checking eBook Content of Chapter 1 Tensor Notation Springer
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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