

Kronecker Delta Function δ_{ij} and Levi-Civita (Epsilon) Symbol ϵ_{ijk}

1. Definitions

$$\delta_{ij} = \begin{cases} 1 & \text{if } i = j \\ 0 & \text{otherwise} \end{cases} \quad \epsilon_{ijk} = \begin{cases} +1 & \text{if } \{ijk\} = 123, 312, \text{ or } 231 \\ -1 & \text{if } \{ijk\} = 213, 321, \text{ or } 132 \\ 0 & \text{all other cases (i.e., any two equal)} \end{cases}$$

- So, for example, $\epsilon_{112} = \epsilon_{313} = \epsilon_{222} = 0$.
- The $+1$ (or *even*) permutations are related by rotating the numbers around; think of starting with 123 and moving (in your mind) the 3 to the front of the line, to get 312. Do it again with the 2 and you get 231. The -1 (or *odd*) permutations starting with 213 are related to each other the same way; they are related to 123 by interchanging just two of the numbers (e.g., switch the 1 and 3 to get 321).

2. Applying δ_{ij} and ϵ_{ijk} to Vectors in Cartesian coordinates

- Instead of using x , y , and z to label the components of a vector, we use 1, 2, 3.
- Then the letters i , j , k , ... can be used as summation variables, running from 1 to 3. (We could use any other letters, like a , b , ...; it is merely a convention.)
- Don't confuse the use of the dummy summation variables i , j , k , each of which can be 1, 2, or 3, with the unit vectors $\hat{\mathbf{i}}$, $\hat{\mathbf{j}}$, $\hat{\mathbf{k}}$. These are two independent notations!
- The dot product of two vectors $\mathbf{A} \cdot \mathbf{B}$ in this notation is

$$\mathbf{A} \cdot \mathbf{B} = A_1 B_1 + A_2 B_2 + A_3 B_3 = \sum_{i=1}^3 A_i B_i = \sum_{i=1}^3 \sum_{j=1}^3 A_{ij} \delta_{ij} .$$

Note that there are nine terms in the final sums, but only three of them are non-zero.

- The i^{th} component of the cross product of two vectors $\mathbf{A} \times \mathbf{B}$ becomes

$$(\mathbf{A} \times \mathbf{B})_i = \sum_{j=1}^3 \sum_{k=1}^3 \epsilon_{ijk} A_j B_k .$$

Again, there are nine terms in the sum, but this time only two of them are non-zero. Note also that this expression summarizes three equations, namely for $i = 1, 2, 3$.

3. Einstein Summation Convention

- We might notice that the summations in the expressions for $\mathbf{A} \cdot \mathbf{B}$ and $\mathbf{A} \times \mathbf{B}$ are redundant, because they only appear when an index like i or j appears twice on one side of an equation. So we can omit them. Thus

$$\sum_{i=1}^3 \sum_{j=1}^3 A_{ij} \delta_{ij} \longrightarrow A_{ij} \delta_{ij} \quad \text{and} \quad \sum_{j=1}^3 \sum_{k=1}^3 \epsilon_{ijk} A_j B_k \longrightarrow \epsilon_{ijk} A_j B_k .$$

Kronecker Delta Function And Levi Civita Epsilon Symbol

Anupam Garg



Kronecker Delta Function And Levi Civita Epsilon Symbol:

Mathematical Physics & Newtonian Mechanics (Physics) English Edition Dr. Ramji Pathak, Dr. Amit Srivastava, 2021-01-01 Mathematical Physics Newtonian Mechanics b sc 1 semester nep2020 common minimum syllabus by Thakur Publication Pvt Ltd Geometry, Symmetries, and Classical Physics Manousos Markoutsakis, 2021-12-28 This book provides advanced undergraduate physics and mathematics students with an accessible yet detailed understanding of the fundamentals of differential geometry and symmetries in classical physics Readers working through the book will obtain a thorough understanding of symmetry principles and their application in mechanics field theory and general relativity and in addition acquire the necessary calculational skills to tackle more sophisticated questions in theoretical physics Most of the topics covered in this book have previously only been scattered across many different sources of literature therefore this is the first book to coherently present this treatment of topics in one comprehensive volume Key features Contains a modern streamlined presentation of classical topics which are normally taught separately Includes several advanced topics such as the Belinfante energy momentum tensor the Weyl Schouten theorem the derivation of Noether currents for diffeomorphisms and the definition of conserved integrals in general relativity Focuses on the clear presentation of the mathematical notions and calculational technique

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Table of Contents Kronecker Delta Function And Levi Civita Epsilon Symbol

1. Understanding the eBook Kronecker Delta Function And Levi Civita Epsilon Symbol
 - The Rise of Digital Reading Kronecker Delta Function And Levi Civita Epsilon Symbol
 - Advantages of eBooks Over Traditional Books
2. Identifying Kronecker Delta Function And Levi Civita Epsilon Symbol
 - 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 Kronecker Delta Function And Levi Civita Epsilon Symbol
 - User-Friendly Interface
4. Exploring eBook Recommendations from Kronecker Delta Function And Levi Civita Epsilon Symbol

- Personalized Recommendations
- Kronecker Delta Function And Levi Civita Epsilon Symbol User Reviews and Ratings
- Kronecker Delta Function And Levi Civita Epsilon Symbol and Bestseller Lists
- 5. Accessing Kronecker Delta Function And Levi Civita Epsilon Symbol Free and Paid eBooks
 - Kronecker Delta Function And Levi Civita Epsilon Symbol Public Domain eBooks
 - Kronecker Delta Function And Levi Civita Epsilon Symbol eBook Subscription Services
 - Kronecker Delta Function And Levi Civita Epsilon Symbol Budget-Friendly Options
- 6. Navigating Kronecker Delta Function And Levi Civita Epsilon Symbol eBook Formats
 - ePub, PDF, MOBI, and More
 - Kronecker Delta Function And Levi Civita Epsilon Symbol Compatibility with Devices
 - Kronecker Delta Function And Levi Civita Epsilon Symbol Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Kronecker Delta Function And Levi Civita Epsilon Symbol
 - Highlighting and Note-Taking Kronecker Delta Function And Levi Civita Epsilon Symbol
 - Interactive Elements Kronecker Delta Function And Levi Civita Epsilon Symbol
- 8. Staying Engaged with Kronecker Delta Function And Levi Civita Epsilon Symbol
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Kronecker Delta Function And Levi Civita Epsilon Symbol
- 9. Balancing eBooks and Physical Books Kronecker Delta Function And Levi Civita Epsilon Symbol
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Kronecker Delta Function And Levi Civita Epsilon Symbol
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Kronecker Delta Function And Levi Civita Epsilon Symbol
 - Setting Reading Goals Kronecker Delta Function And Levi Civita Epsilon Symbol
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Kronecker Delta Function And Levi Civita Epsilon Symbol

- Fact-Checking eBook Content of Kronecker Delta Function And Levi Civita Epsilon Symbol
- 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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web an act to provide for the control of factories with respect to matters relating to the safety health and welfare of person therein the registration and inspection of machinery and for