

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

B. Lautrup



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