

A Summary of Cartesian tensor notation

The standard Kronecker delta symbol is defined as

$$\delta_{ij} = \begin{cases} 1 & \text{if } i = j, \\ 0 & \text{if } i \neq j. \end{cases} \quad (\text{A.1})$$

Note that

$$\delta_{ii} = 3 \quad (\text{A.2})$$

and

$$\delta_{ij}\delta_{ij} = \delta_{ii} = 3. \quad (\text{A.3})$$

The standard Levi-Civita symbol is given by

$$\epsilon_{ijk} = \begin{cases} 1 & \text{if } (i, j, k) \text{ is an even permutation of } (1, 2, 3), \\ -1 & \text{if } (i, j, k) \text{ is an odd permutation of } (1, 2, 3), \\ 0 & \text{if any two labels are the same.} \end{cases} \quad (\text{A.4})$$

Useful relations between the Levi-Civita symbol and the generalized Kronecker delta symbol (see (2.91)) are

$$\begin{aligned} \epsilon_{ijk}\epsilon_{lmn} &= \delta_{iljmkn} = \det \begin{bmatrix} \delta_{il} & \delta_{im} & \delta_{in} \\ \delta_{jl} & \delta_{jm} & \delta_{jn} \\ \delta_{kl} & \delta_{km} & \delta_{kn} \end{bmatrix}, \\ &= \delta_{il}\delta_{jm}\delta_{kn} + \delta_{im}\delta_{jn}\delta_{kl} + \delta_{in}\delta_{jl}\delta_{km} - \delta_{im}\delta_{jl}\delta_{kn} - \delta_{il}\delta_{jn}\delta_{km} - \delta_{in}\delta_{jm}\delta_{kl}, \end{aligned} \quad (\text{A.5})$$

$$\epsilon_{ijk}\epsilon_{lmk} = 1! \delta_{iljm} = \det \begin{bmatrix} \delta_{il} & \delta_{im} \\ \delta_{jl} & \delta_{jm} \end{bmatrix} = \delta_{il}\delta_{jm} - \delta_{im}\delta_{jl}, \quad (\text{A.6})$$

$$\epsilon_{ijk}\epsilon_{ijl} = 2! \delta_{kl} = 2 \delta_{kl}, \quad (\text{A.7})$$

$$\epsilon_{ijk}\epsilon_{ijk} = 3! = 6. \quad (\text{A.8})$$

The generalized Levi-Civita (or permutation) symbol (see (2.88)) is given by

$$\epsilon_{ijkl\dots} = \begin{cases} +1 & \text{if } (i, j, k, l, \dots) \text{ is an even permutation of } (1, 2, 3, 4, \dots), \\ -1 & \text{if } (i, j, k, l, \dots) \text{ is an odd permutation of } (1, 2, 3, 4, \dots), \\ 0 & \text{if any two labels are the same.} \end{cases} \quad (\text{A.9})$$

Furthermore, it can be shown that

$$\epsilon_{i_1 i_2 i_3 \dots} \epsilon_{j_1 j_2 j_3 \dots} = \delta_{i_1 j_1 i_2 j_2 i_3 j_3 \dots} = \det \begin{bmatrix} \delta_{i_1 j_1} & \delta_{i_1 j_2} & \delta_{i_1 j_3} & \dots \\ \delta_{i_2 j_1} & \delta_{i_2 j_2} & \delta_{i_2 j_3} & \dots \\ \delta_{i_3 j_1} & \delta_{i_3 j_2} & \delta_{i_3 j_3} & \dots \\ \vdots & \vdots & \vdots & \ddots \end{bmatrix}, \quad (\text{A.10})$$

$$\epsilon_{i_1, \dots, i_n} \epsilon_{i_1, \dots, i_n} = n!, \quad (\text{A.11})$$

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David Kirk



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