# A   Summary of Cartesian tensor notation

The standard Kronecker delta symbol is defined as

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

Note that

$$\delta_{ii} = 3 \tag{A.2}$$

and

$$\delta_{ij}\delta_{ij} = \delta_{ii} = 3. \tag{A.3}$$

The standard Levi–Civita symbol is given by

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

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

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

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

$$\epsilon_{ijk}\epsilon_{ijl} = 2!\,\delta_{kl} = 2\,\delta_{kl}, \tag{A.7}$$

$$\epsilon_{ijk}\epsilon_{ijk} = 3! = 6. \tag{A.8}$$

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

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

Furthermore, it can be shown that

$$\epsilon_{i_1 i_2 i_3\ldots}\epsilon_{j_1 j_2 j_3\ldots} = \delta_{i_1 j_1 i_2 j_2 i_3 j_3\ldots} = \det \begin{bmatrix} \delta_{i_1 j_1} & \delta_{i_1 j_2} & \delta_{i_1 j_3} & \cdots \\ \delta_{i_2 j_1} & \delta_{i_2 j_2} & \delta_{i_2 j_3} & \cdots \\ \delta_{i_3 j_1} & \delta_{i_3 j_2} & \delta_{i_3 j_3} & \cdots \\ \vdots & \vdots & \vdots & \ddots \end{bmatrix}, \tag{A.10}$$

$$\epsilon_{i_1\ldots i_n}\epsilon_{i_1\ldots i_n} = n!, \tag{A.11}$$

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