Contents

0.1   Tensor inverses

For second order tensors we have:

- T^i_j

- T_{ij}

- T^{ij}

For each of these we can define an inverse:

- $T^j_i U^k_j = \delta^k_i$

- $T_{ij} U^{jk} = \delta^k_i$

- $T^{ij} U_{jk} = \delta^k_i$

0.1.1   Notation for inverses

If we have $T_{ij} U^{jk} = \delta^k_i$, we can instead write:

$T_{ij} T^{jk} = \delta^k_i$