

**2.21** Number of independent parameters in a symmetric matrix = (total number of parameters - number of parameters in the diagonal)\* $\frac{1}{2}$ +number of parameters in the diagonal

$$= (D^2 - D) * \frac{1}{2} + D$$

$$= \frac{D^2 + D}{2}$$

$$= \frac{D(D+1)}{2}$$