

* Rank 0 tensor.

$$[G]$$

$$G = G_s^{(1)}$$

* Rank 1 tensor. * Rank 2 tensor (s).

$$\begin{bmatrix} G_{xx} & 0 & 0 \\ 0 & G_{xx} & 0 \\ 0 & 0 & G_{xx} \end{bmatrix}$$

$$G_{xx} = G_s^{(1)}$$

* Rank 2 tensor (a). * Rank 3 tensor (s). * Rank 3 tensor (a).

$$\begin{bmatrix} G_{yzx} & 0 & 0 \\ 0 & G_{yzx} & 0 \\ 0 & 0 & G_{yzx} \end{bmatrix}$$

$$G_{yzx} = Q_s^{(1)}$$

* Rank 4 tensor (sss).

$$\begin{bmatrix} G_{xxxx} & G_{xxyy} & G_{xxyy} & 0 & 0 & 0 \\ G_{xxyy} & G_{xxxx} & G_{xxyy} & 0 & 0 & 0 \\ G_{xxyy} & G_{xxyy} & G_{xxxx} & 0 & 0 & 0 \\ 0 & 0 & 0 & G_{yzyz} & 0 & 0 \\ 0 & 0 & 0 & 0 & G_{yzyz} & 0 \\ 0 & 0 & 0 & 0 & 0 & G_{yzyz} \end{bmatrix}$$

$$G_{xxxx} = 2G_g^{(1)} + G_s^{(1)} + 2G_s^{(2)}$$

$$G_{xxyy} = -G_g^{(1)} + G_s^{(1)}$$

$$G_{yzyz} = -G_g^{(1)} + G_s^{(2)}$$

* Rank 4 tensor (ssa). * Rank 4 tensor (aas).

$$\begin{bmatrix} G_{yzyz} & 0 & 0 \\ 0 & G_{yzyz} & 0 \\ 0 & 0 & G_{yzyz} \end{bmatrix}$$

$$G_{yzyz} = G_s^{(3)}$$

* Rank 4 tensor (aaa). * Rank 4 tensor (sa). * Rank 4 tensor (as). * Rank 4 tensor (s).

$$\begin{bmatrix} G_{xxxx} & G_{xxyy} & G_{xxyy} & 0 & 0 & 0 & 0 & 0 & 0 \\ G_{xxyy} & G_{xxxx} & G_{xxyy} & 0 & 0 & 0 & 0 & 0 & 0 \\ G_{xxyy} & G_{xxyy} & G_{xxxx} & 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & G_{yzyz} & 0 & 0 & G_{yzyz} & 0 & 0 \\ 0 & 0 & 0 & 0 & G_{yzyz} & 0 & 0 & G_{yzyz} & 0 \\ 0 & 0 & 0 & 0 & 0 & G_{yzyz} & 0 & 0 & G_{yzyz} \end{bmatrix}$$

$$G_{xxxx} = 2G_g^{(1)} + G_s^{(1)} + 2G_s^{(2)}$$

$$G_{xxyy} = -G_g^{(1)} + G_s^{(1)}$$

$$G_{yzyz} = -G_g^{(1)} + G_s^{(2)}$$

* Rank 4 tensor (a).

$$\begin{bmatrix} 0 & 0 & 0 & G_{yzyz} & 0 & 0 & -G_{yzyz} & 0 & 0 \\ 0 & 0 & 0 & 0 & G_{yzyz} & 0 & 0 & -G_{yzyz} & 0 \\ 0 & 0 & 0 & 0 & 0 & G_{yzyz} & 0 & 0 & -G_{yzyz} \end{bmatrix}$$

$$G_{yzyz} = G_s^{(3)}$$

* Rank 4 tensor (t).

$$\begin{bmatrix} G_{xxxx} & 0 & 0 \\ 0 & G_{xxxx} & 0 \\ 0 & 0 & G_{xxxx} \\ 0 & 0 & G_{yyzz} \\ G_{yyzz} & 0 & 0 \\ 0 & G_{yyzz} & 0 \\ 0 & G_{yyzz} & 0 \\ 0 & 0 & G_{yyzz} \\ G_{yyzz} & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$

$$G_{xxxx} = 2G_g^{(1)} + 3G_s^{(1)}$$

$$G_{yyzz} = -G_g^{(1)} + G_s^{(1)}$$