

MPG No. 8.1.24  $mmm$  [ Type I, orthorhombic ] [M tensor]

\* Rank 0 tensor. \* Rank 1 tensor. \* Rank 2 tensor (s). \* Rank 2 tensor (a). \* Rank 3 tensor (s).

$$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ M_{yzz} & 0 & 0 \\ 0 & M_{zxy} & 0 \\ 0 & 0 & M_{xyz} \end{bmatrix}$$

$$\begin{aligned} M_{yzz} &= M_{f3}^{(1)} - 3T_{du}^{(1)} - T_{dv}^{(1)} \\ M_{zxy} &= M_{f3}^{(1)} + 3T_{du}^{(1)} - T_{dv}^{(1)} \\ M_{xyz} &= M_{f3}^{(1)} + 2T_{dv}^{(1)} \end{aligned}$$

\* Rank 3 tensor (a).

$$\begin{bmatrix} M_{yzz} & 0 & 0 \\ 0 & M_{zxy} & 0 \\ 0 & 0 & M_{xyz} \end{bmatrix}$$

$$\begin{aligned} M_{yzz} &= -T_{du}^{(2)} + T_{dv}^{(2)} + T_s^{(1)} \\ M_{zxy} &= -T_{du}^{(2)} - T_{dv}^{(2)} + T_s^{(1)} \\ M_{xyz} &= 2T_{du}^{(2)} + T_s^{(1)} \end{aligned}$$

\* Rank 4 tensor (sss). \* Rank 4 tensor (ssa). \* Rank 4 tensor (aas). \* Rank 4 tensor (aaa). \* Rank 4 tensor (sa). \* Rank 4 tensor (as). \* Rank 4 tensor (s). \* Rank 4 tensor (a). \* Rank 4 tensor (t).