

$$d_{u_{1}u_{23}} = \begin{bmatrix} 0 & 0 & 0 & 0 & d_{15} & -d_{22} \\ -d_{22} & d_{22} & 0 & d_{15} & 0 & 0 \\ d_{31} & d_{31} & d_{33} & 0 & 0 & 0 \end{bmatrix}$$

$$\begin{bmatrix} E_{x}(\Omega)E_{x}(\omega - \Omega) \\ E_{y}(\Omega)E_{y}(\omega - \Omega) \\ E_{y}(\Omega)E_{y}(\omega - \Omega) \\ E_{z}(\Omega)E_{z}(\omega - \Omega) \\ 2E_{x}(\Omega)E_{z}(\omega - \Omega) \\ 2E_{x}(\Omega)E_{z}(\omega - \Omega) \end{bmatrix} \cdot d\Omega$$

$$P_{x}^{(2)}(\omega) = \begin{pmatrix} +2\varepsilon_{0} \int_{-\infty}^{+\infty} \chi_{15}^{(2)}(\omega)E_{x}(\Omega)E_{x}(\Omega)E_{y}(\omega - \Omega) d\Omega \\ -2\varepsilon_{0} \int_{-\infty}^{+\infty} \chi_{22}^{(2)}(\omega)E_{x}(\Omega)E_{y}(\omega - \Omega) d\Omega \end{pmatrix}$$