

$$G_{mm} = \sum_{j=0}^{m-1} \left( \sum_{k=0}^{m-1} g_{jk} G_{jk}^{(km)} \right) \omega_{m}^{(m)}$$

$$= \sum_{j=0}^{m-1} \left[ g_{j0} g_{jk} g_{jk} g_{jk} g_{jk} \right] \left[ \omega_{m}^{(m)} \right]$$

$$= \left[ \omega_{m}^{(m)} \omega_{m}^{(m)} \right] \omega_{m}^{(m)}$$

$$= \left[ \omega_{m}^{(m)} \omega_{m}^{(m)} \right] \left[ g_{j0} g_{jk} g_{jk} g_{jk} \right] \left[ g_{j0} g_{jk} g_{jk} g_{jk} \right] \left[ \omega_{m}^{(m)} \right]$$

$$= \left[ \omega_{m}^{(m)} \omega_{m}^{(m)} \right] \left[ g_{j0} g_{jk} g_{jk} g_{jk} g_{jk} \right] \left[ g_{j0} g_{jk} g_{jk} g_{jk} g_{jk} \right] \left[ \omega_{m}^{(m)} \right]$$

$$= \left[ \omega_{m}^{(m)} \omega_{m}^{(m)} \right] \left[ g_{j0} g_{jk} g_{jk} g_{jk} g_{jk} \right] \left[ \omega_{m}^{(m)} \right]$$

$$= \left[ \omega_{m}^{(m)} \omega_{m}^{(m)} \right] \left[ g_{j0} g_{jk} g_{jk} g_{jk} g_{jk} \right] \left[ \omega_{m}^{(m)} \right] \left[ g_{j0} g_{jk} g_{jk} g_{jk} \right] \left[ \omega_{m}^{(m)} \right] \left[$$



