

$$\mathbf{P} = \begin{array}{c} \begin{array}{ccccc} & \text{H} & \text{S1} & \text{S2} & \text{DOC} & \text{DS} \\ \text{H} & \text{p_HH} & \text{p_HS1} & \text{p_HS2} & \text{p_HD0C} & \text{p_HDS} \\ \text{S1} & \text{p_S1H} & \text{p_S1S1} & \text{p_S1S2} & \text{p_S1D0C} & \text{p_S1DS} \\ \text{S2} & 0 & 0 & \text{p_S2S2} & \text{p_S2D0C} & \text{p_S2DS} \\ \text{DOC} & 0 & 0 & 0 & 1.0 & 0 \\ \text{DS} & 0 & 0 & 0 & 0 & 1.0 \end{array} \end{array} \left(\begin{array}{c} \\ \\ \\ \\ \\ \end{array} \right)$$

$$\mathbf{P} = \begin{array}{c} \begin{array}{ccccc} & \text{H} & \text{S1} & \text{S2} & \text{D} & \text{trDS} \\ \text{H} & \text{p_HH} & \text{p_HS1} & \text{p_HS2} & \text{p_HD} & \text{p_HDS} \\ \text{S1} & \text{p_S1H} & \text{p_S1S1} & \text{p_S1S2} & \text{p_S1D} & \text{p_S1DS} \\ \text{S2} & 0 & 0 & \text{p_S2S2} & \text{p_S2D} & \text{p_S2DS} \\ \text{D} & 0 & 0 & 0 & 1.0 & 0 \\ \text{trDS} & 0 & 0 & 0 & 0 & 0.0 \end{array} \end{array} \left(\begin{array}{c} \\ \\ \\ \\ \\ \end{array} \right)$$