

$$\mathbf{J}^T = \begin{pmatrix} \frac{\delta r_1}{\delta x_1} & \frac{\delta r_2}{\delta x_1} & \cdots & \frac{\delta r_m}{\delta x_1} \\ \frac{\delta r_1}{\delta x_2} & \frac{\delta r_2}{\delta x_2} & \cdots & \frac{\delta r_m}{\delta x_2} \\ \vdots & \vdots & \ddots & \vdots \\ \frac{\delta r_1}{\delta x_n} & \frac{\delta r_2}{\delta x_n} & \cdots & \frac{\delta r_m}{\delta x_n} \end{pmatrix} = \left( \frac{\delta r_j}{\delta x_i} \right)$$