

$$\begin{array}{|c|} \hline \mathbf{y} \\ \hline y_1 \\ y_2 \\ y_3 \\ \vdots \\ y_M \\ \hline \end{array} = \begin{array}{|c|} \hline \mathbf{\Phi} \\ \hline \Phi_1 \\ \Phi_2 \\ \Phi_3 \\ \vdots \\ \Phi_M \\ \hline \end{array} \begin{array}{|c|} \hline \mathbf{x} \\ \hline x_1 \\ x_2 \\ x_3 \\ x_4 \\ \vdots \\ x_N \\ \hline \end{array}$$