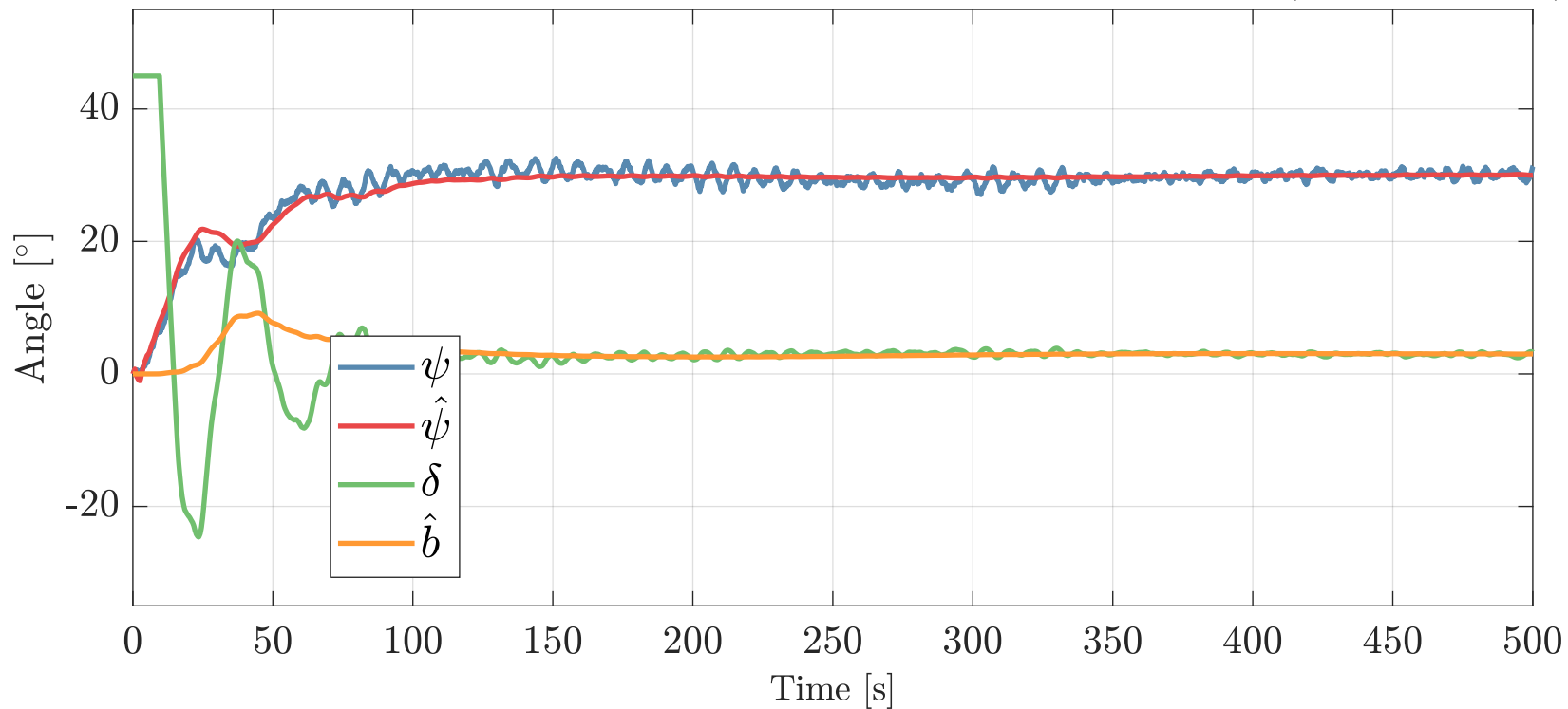


Heading with Kalman filter with  $\hat{\psi}$  as feedback to controller.  $\mathbf{Q} = \begin{pmatrix} 0.03 & 0 \\ 0 & 1e-06 \end{pmatrix}$



Measured wave influence vs estimated wave influence.  $\mathbf{Q} = \begin{pmatrix} 0.03 & 0 \\ 0 & 1e-06 \end{pmatrix}$

