





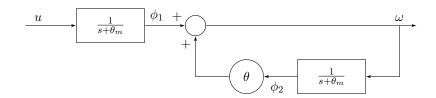
$$V \longrightarrow a_1 \longrightarrow \omega$$

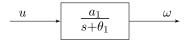
$$\begin{array}{c|c} V & & \\ \hline & \\ \hline & & \\ \hline & \\ \hline & \\ \hline & & \\ \hline & \\ \hline & & \\ \hline & \\ \hline$$

$$\begin{array}{c} \hat{\omega} \\ \hline \\ \hat{\theta}_1 \\ \hline \end{array} \begin{array}{c} -\frac{1}{s+\theta_1} \\ \hline \end{array} \begin{array}{c} e \\ \hline \end{array}$$

$$\begin{array}{c}
\phi \\
\tilde{\tilde{\theta}}^{\top}
\end{array}
\qquad
\begin{array}{c}
k_p \\
s-a_m
\end{array}
\qquad
\begin{array}{c}
e
\end{array}$$

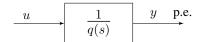
$$\begin{array}{c|c}
V & & u \\
\hline
& & 1 \\
\hline
& s+\theta_1 \\
\end{array}$$

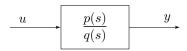




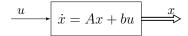
$$\begin{array}{c|c}
u & \overline{a_1} \\
\hline
s+\theta_1 & \overline{\omega}
\end{array}$$

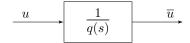
$$u$$
 p.e.  $\xrightarrow{1}$   $y$  p.e.

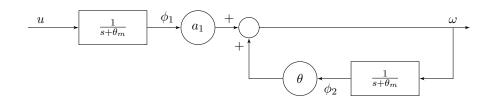


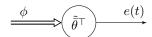


p(s) q(s) Hurwitz proper t.f.

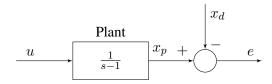


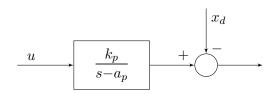


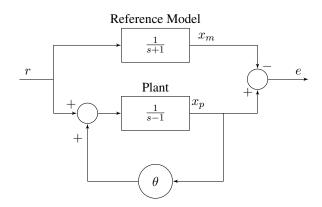


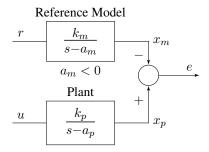


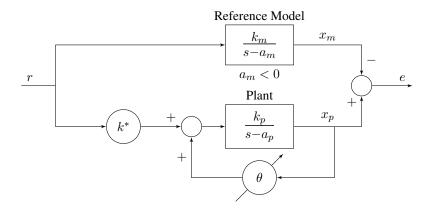




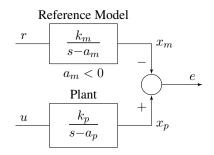


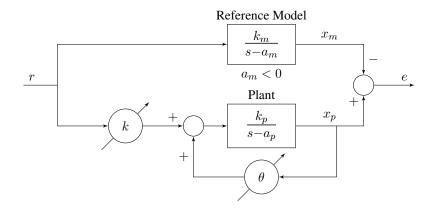


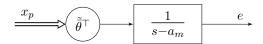












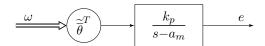


Figure 1:  $lec2\ fig13\ and\ lec3\ fig1$ 

