ECE 423

POWER SYSTEMS ANALYSIS

SESSION no.  26
Salient - Pole

\[
\frac{L_d}{L_q} > \frac{a_d}{a_q}
\]

\[
\frac{R_d}{R_q} < 1
\]
PSS Examples

Consider $E, V, P$

1st Power Flow

1. Calculate $E$.
\[ h(x) = \frac{1}{g(x)} \]

\[ h = \Delta h \cos(2\alpha) \]
\[ L_{ea}(\theta_r) = (L_{ss} + L_{es}) - L_0 \cos(2\theta_r) \]

\[ L_{ea} = \frac{\gamma}{c_a} \]
\[ \text{Lof} = -L_s f \sin(\Theta r) \]

\[ \text{Lof} = \frac{2}{i_f} \]

Graph showing a sine function with labels at specific points.