



$$\sum F_{x_B} = -\|\vec{F}_L\| \sin \gamma_w + \|\vec{F}_D\| \cos \gamma_w$$

$$\|\vec{F}_L\| \cong C_{L0} + C_{L1} (u_w + \gamma_w)$$

$$\|\vec{F}_D\| \cong C_{D0} + C_{D1} (u_w + \gamma_w) + C_{D2} (u_w + \gamma_w)^2$$

$$\frac{d\sum F_{x_B}}{du_w} = -C_{L1} \sin \gamma_w + (C_{D1} + 2C_{D2}(u_w + \gamma_w)) \cos \gamma_w$$

$$\frac{d\sum F_{x_B}}{du_w} = 0 \Rightarrow C_{L1} \sin \gamma_w = (C_{D1} + 2C_{D2}(u_w + \gamma_w)) \cos \gamma_w$$

$$C_{L1} \tan \gamma_w = C_{D1} + 2C_{D2} (u_w + \gamma_w)$$

$$\frac{C_{L1} \tan \gamma_w - C_{D1}}{2C_{D2}} - \gamma_w = u_w$$

suche  $u_w$  such that  $u_w + \gamma_w \leq \alpha_{\text{stell}}^+$   $\neq$   $u_w + \gamma_w \geq \alpha_{\text{stell}}^-$   
 $u_w \leq \alpha_{\text{stell}}^+ - \gamma_w$   $u_w \geq \alpha_{\text{stell}}^- - \gamma_w$