

$$\bar{X}_{np} = \frac{C_{L\alpha} \bar{X}_{acw} - C_{m\alpha fus} + \eta_h \frac{S_h}{S_w} C_{L\alpha_h} \frac{\partial \alpha_h}{\partial \alpha} \bar{X}_{ach} + \frac{F_{p\alpha}}{q S_w} \frac{\partial \alpha_p}{\partial \alpha} \bar{X}_p}{C_{L\alpha} + \eta_h \frac{S_h}{S_w} C_{L\alpha_h} \frac{\partial \alpha_h}{\partial \alpha} + \frac{F_{p\alpha}}{q S_w}}$$