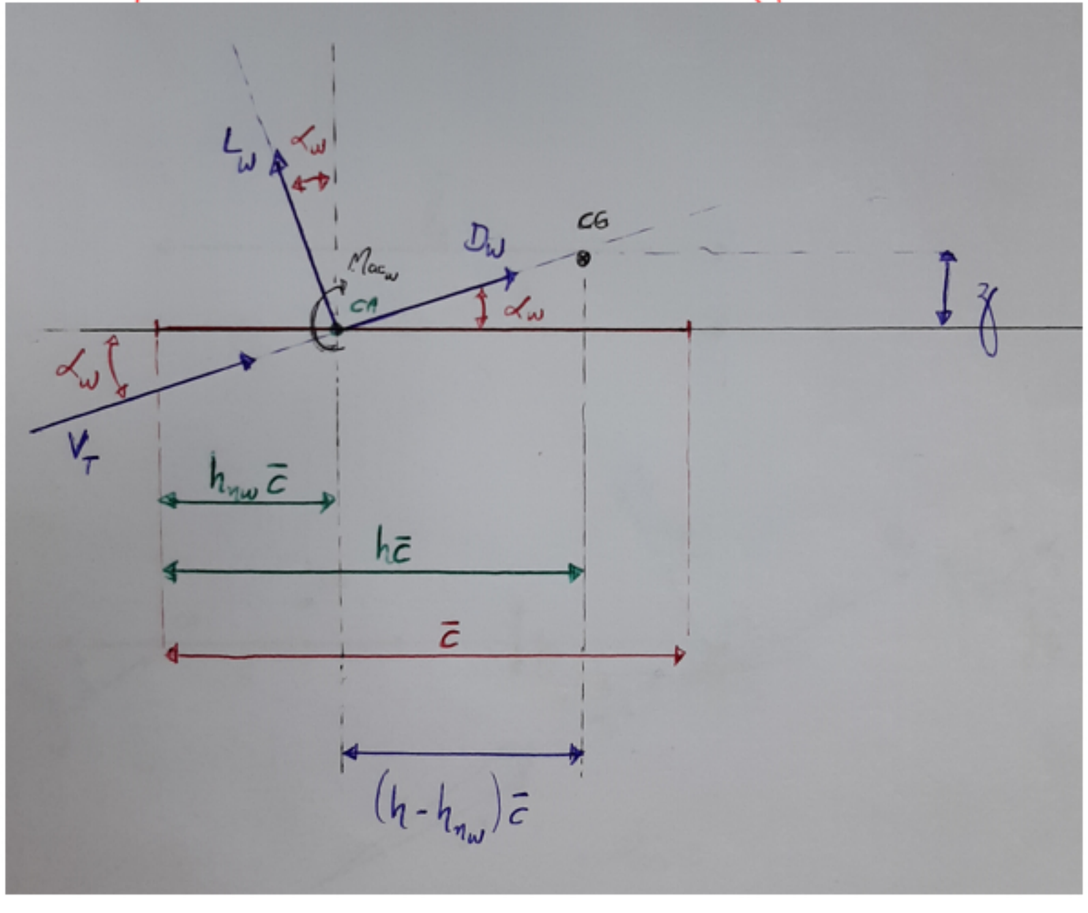
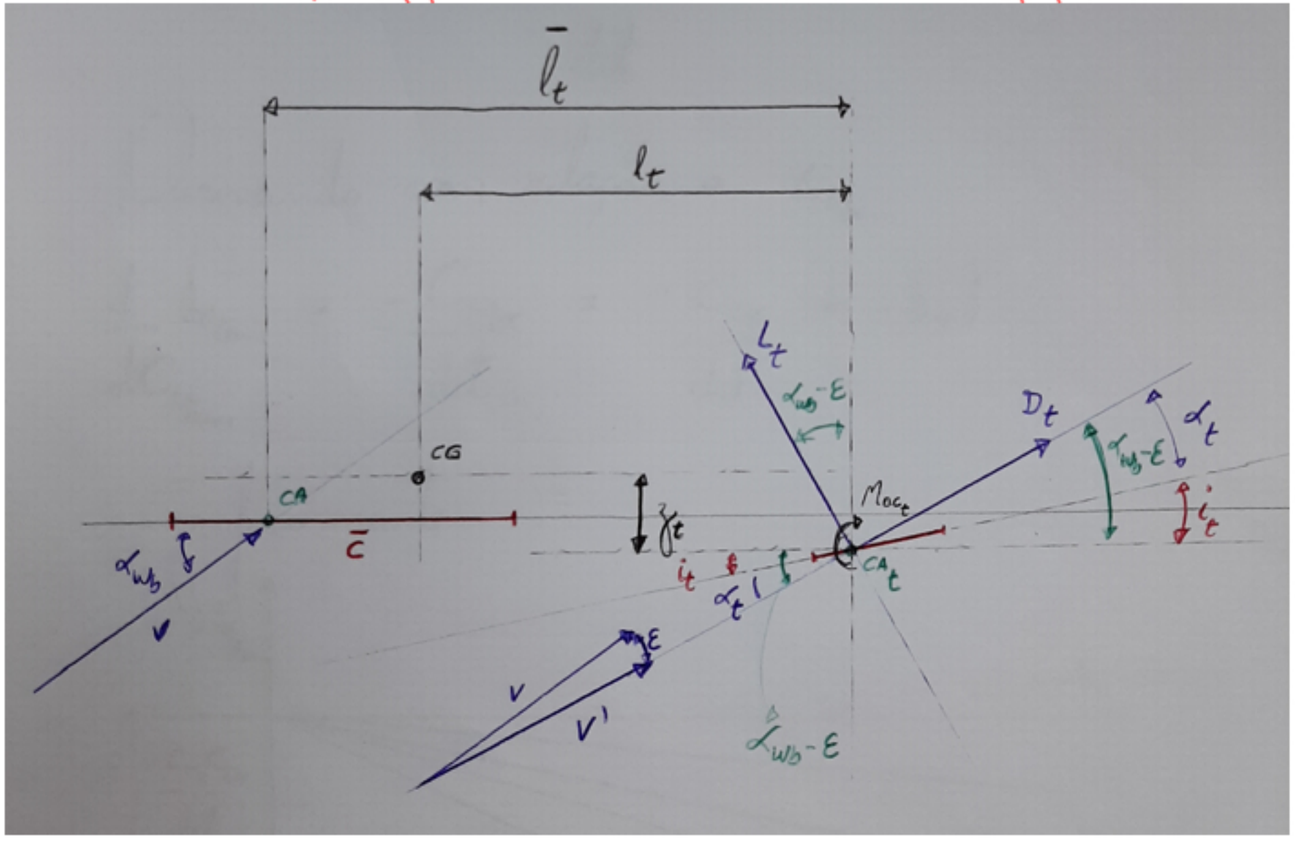
Momento de arfagem em torno do CG



$$M_w = M_{ac_w} + (L_w \cos\alpha_w + D_w \sin\alpha_w)(h - h_{n_w})\bar{c} + (L_w \sin\alpha_w - D_w \cos\alpha_w)\, z$$

Momento de arfagem da empenagem em torno do CG



$$M_t = M_{ac_t} + l_t\left[L_t \cos(\alpha_{wb} - \varepsilon) + D_t \operatorname{sen}(\alpha_{wb} - \varepsilon)\right] - \gamma_t\left[-L_t \operatorname{sen}(\alpha_{wb} - \varepsilon) + D_t \cos(\alpha_{wb} - \varepsilon)\right]$$

Obs: $\alpha_t = \alpha_{wb} - \varepsilon - i_t$