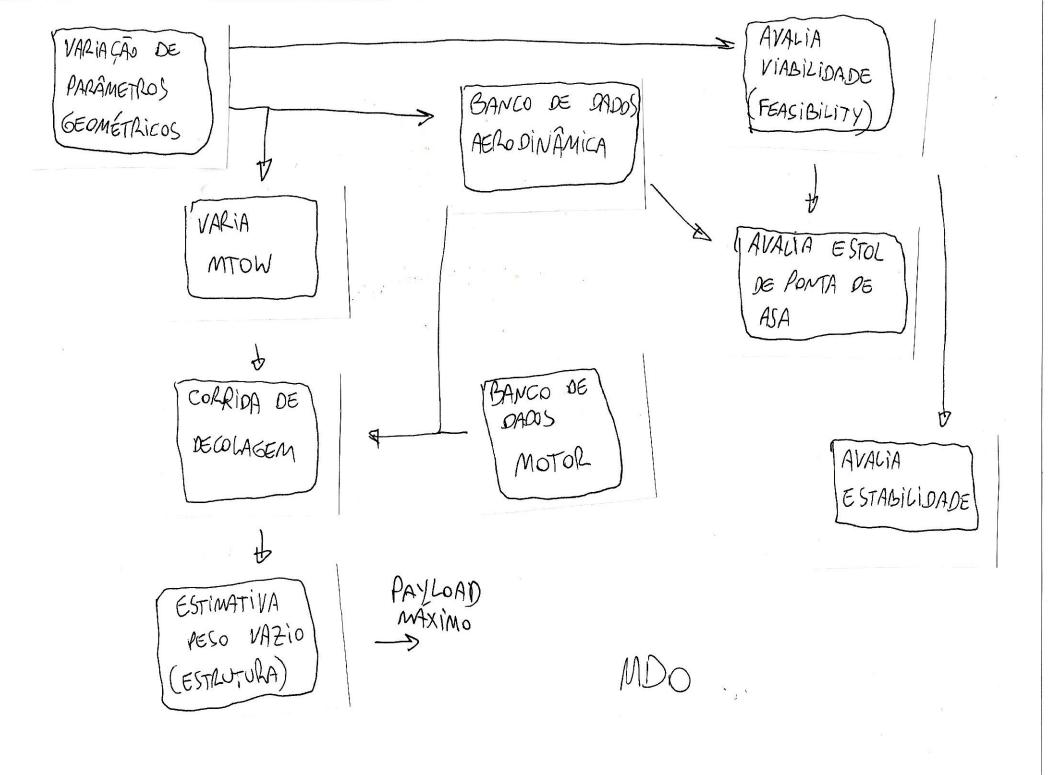


JEM BLOQUINHOS

CRISTIANO VIEIRA

CCVIEIRA Qu GMAIL. COM



LON GARINA BANGO DE DADOS AERODINÂMICA DISTRIBUIÇÃO DE SUSTENTAÇÃO DIAGRAMA DE LOOP PRA CADA MOMENTOS MTOW ESTAÇÃO DA (FLETOR) ASA PROPRIEDADES MATERIAL CÁLCULO PATOR DE DIMENSOES LONGARINA CARGA MÁXIMO

VOLUME LONGALINA



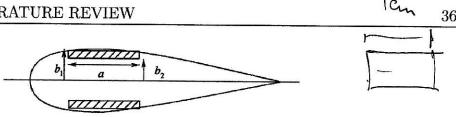


FIGURE 2.11 – Simplified Section Inertia Estimation.

$$\sqrt{M} = \frac{M \cdot \sqrt{M}}{I}$$

$$I_{min} = \frac{M \cdot b_1}{\sigma_{max}}$$
(2.9)

$$I = \frac{2}{3}a(b_1^3 - b_2^3) \tag{2.10}$$

Then, because we know b_1 of each section, and assuming the variable a (flange width) as a constant fraction of local chord, the only variable left to know is b_2 , given by Eq. 2.11. From this equation we know the flange thickness at every station along span given the chord, profile thickness and required inertia.

$$b_2 = (b_1^3 - \frac{3}{2}I)^{\frac{1}{3}} \tag{2.11}$$