KONSTRUKCIJA ZRAKOPLOVA 1

$$\sigma_{\mathrm{kr}} = \frac{\pi^2 E I_{min}}{A l^2} c \quad ; \quad \sigma_{\mathrm{kr}} = \frac{\pi^2 E}{\lambda^2} c \tag{1}$$

$$\sigma_{\mathrm{kr}} = \sigma_v \frac{1+\bar{\sigma}}{1+\bar{\sigma}+\bar{\sigma}^2} \quad ; \quad \bar{\sigma} = \frac{\sigma_v}{\sigma_E} \tag{2}$$

$$\sigma_{\mathrm{kr}}^M = \frac{0.3E}{D/\delta} \quad ; \quad \sigma_{\mathrm{kr}}^M = k_\sigma \frac{0.9E}{(b/\delta)^2} \tag{3}$$

$$\varphi_0 = \frac{30\delta}{b} \quad ; \quad \varphi_0 = \frac{30\delta + d}{b} \tag{4}$$

$$H_{sr} = 0.85 c_{max} \tag{5}$$

$$\delta_{p,t} = \frac{M}{H_{sr} B \sigma_{\mathrm{kr}}^M} \quad ; \quad \delta_{p,v} = \frac{M}{0.9 H_{sr} B \sigma_v} \tag{6}$$

$$\delta_{o,t} = 0.5\delta_{p,t} \quad ; \quad \delta_{o,v} = 0.65\delta_{p,v} \tag{7}$$

$$n_s = \frac{B}{b} - 1 \tag{8}$$

$$A_{s,t} = \frac{B(\delta_{p,t} - \delta_{o,t}\varphi_o)}{n_{s,t} + 4} \quad ; \quad A_{s,v} = \frac{B(\delta_{p,v} - \delta_{o,v})}{n_{s,v} + 4} \tag{9}$$

$$q_{Q_i} = \frac{Q_i}{0.95 H_i} \tag{10}$$

$$M_{Ti} = M_T \frac{C_i}{\sum C_n} \quad ; \quad C_i = \frac{(2A)^2}{\oint dl} G_i \delta_i \tag{11}$$

$$a = B\frac{H_2^2}{H_1^2 + H_2^2} \quad ; \quad b = B\frac{H_1^2}{H_1^2 + H_2^2} \tag{12}$$

$$Q_1 = Q\frac{b}{B} \quad ; \quad Q_2 = Q\frac{a}{B} \tag{13}$$

$$M_1 = M\frac{b}{B} \quad ; \quad M_2 = M\frac{a}{B} \tag{14}$$

elipsa: $\oint dl = \pi[1.5(a+b) - \sqrt{ab}]$; $A_o = \pi ab$, gdje su a, b velika i mala poluos elipse (napomena: a i b nemaju isto fizikalno značenje kao u prijašnjim izrazima)

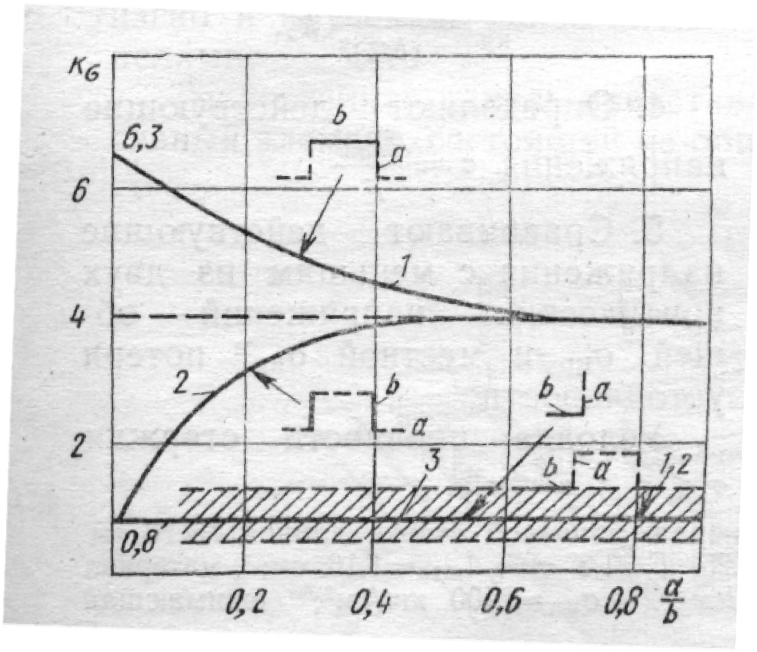

Figure 1: Dijagram $k_\sigma = f(a/b)$